GlobalVision

GlobalVision Desktop

User Guide

DOCUMENT REVISION HISTORY

REV. NO.	CHANGES	DATE
007	Software Version Update: Version 5.2.0 - Addition of Color Inspection chapter (Section 10) - Update to Introduction to reflect new Color Inspection Mode (Section 1) - Addition of Resync Text icon to Icons and Menus (Section 2.6) - Addition of note to all Color Picker sub-sections referring readers to Color Inspection chapter for more information - Update to lower limit of "Ignore edges (pixels)" Graphics Inspection profile parameter (-125 from 0) (Section 12.1 Profiles)	27 Jun. 2018
006	Software Version Update: Version 5.1.0 - Update to screenshots - Addition of instructions pertaining to Lot and Product Name fields in Job Wizard (Section 3.1.1) - Update to Color Picker sections, with Color Information window screenshot replaced with Color Inspector window screenshot - Addition of note that Levels to include field does not appear in Report Options window when Force inclusion of all differences setting has been selected (Section 4.5) - Addition of references to Enable Electronic Signatures setting when generating a report (Section 4.5) - Removal of quick-select buttons in Difference Details panel to assign levels to individual differences - Removal of color-coded boxes around differences based on their assigned levels - Removal of ability to add color differences in Graphics Inspection via Color Picker (Section 5.3.7) - Addition of shortcut keys (Appendix 11.6)	28 May 2018
005	- Addition of Text Inspection and Spelling Inspection chapters - Update to Introduction to reflect new inspection modes - Renaming of Differences panel to Difference List - Addition of option to Automatically zoom to each difference in Preferences window - Updated icons (Section 2.6) - Addition of Image Details option (text inspection) in File Menu Layouts (Section 3.1) - Additions of Live Text (Section 3.5.2), Cross-out Text (Section 3.5.3), Underline Text (Section 3.5.4), Create Zones (Section 3.5.5), and Clear All (Section 3.5.6) - Addition of screenshot showing Exclude Page icon in Show Pages panel (Section 3.5.8) - Addition of note that Braille Compare and Braille Compare (Glue Dots) are not supported by Perform Multiple Inspections (Section 4.2.2) - Addition of Include Thumbnails as option in Report Options window (Section 4.5) - Addition of qualification that clicking View in Report Options window will also save the report (Section 4.5) - Differences are outlined in red in Overview panel (Section 5.1) - Addition of Color Picker to Graphics Inspection Master Toolbar section (Section 5.2.2) - Update to Wide Bar grading system in 1D Barcode Parameters table (Section 6.3.3) - Replacement of BWR with BWR Horizontal and BWR Vertical in 2D Barcode Parameters table (Section 6.3.3)	15 Mar. 2018

05	- Addition of Color Picker to Braille Compare Master Toolbar section (Section 7.3.2) - Addition of FAQ regarding Text Inspection profiles (Section 10.2) - Addition of Inspection Results (Text) section to FAQ (Section 10.5) - Change to the minimum value for Color Sensitivity in Graphics Inspection profiles (1 to 0) (Appendix 11.1.1 to Appendix 11.1.5)	15 Mar. 2018
004	Software Version Update: Version 4.1.0 - File types supported modified (removed C/ CPP/ H) (Introduction) - Removal of Quick Start Guide from Help drop-down menu (Section 2.4) - Addition of Create new Job functionality (Section 3.1.1) - PDF Options icon added to Master and Sample toolbars (Sections 3.3 and 3.4) - Addition of Region Mode multi-page options for marquee selection (Section 3.3.6) - Addition of Alternate Shape Selection to PDF Viewer (Section 3.5.2) - Addition of Report Viewer functionality (Section 4.5) - Addition of Image to Display – Master (Section 5.3.3) - Addition of ability to see both Master/ Sample panel or Sample only after an inspection (Sections 5.4.6, 6.3.6 and 7.5.6) - Addition of Rotate to Barcode and Braille Inspection toolbars (Sections 6.2.1 and 7.2.1) - Update to Color Sensitivity settings for all Graphics Inspection profiles (Appendix 9.1) - Update to list of Linear parameters in Barcode Inspection profiles (Appendix 9.1) - Addition of default workflows in table form to Appendix (9.2) - Addition of Unified English Braille (UEB) to Supported Braille Languages (Appendix 9.3) - Addition of Code 32 to Supported Barcodes (Appendix 9.4)	24 Oct. 2017
003	Software Version Update: Version 4.0.0 - New interface and workflow	03 March 2017
002	Software Version Update: Version 3.1.0 - Addition of Inspection Wizard functionality - Ability to inspect LEN files - Addition of Color Inspection to Setup Parameters (Digital and Proof) - Modification of Difference Grouping (pixels) in the Proof Setup. - Improved workflow for Braille - Deletion of Epson and Nextimage Software scanning steps from User Guide, added to individual Scanner Maintenance Guides	03 Jun. 2016
001	Software Version Update: Version 3.0.0 - Addition of Braille Module – ability to translate Braille regions on master/ sample images and compare Braille regions on master/ sample images - Support for multiple Braille Languages - BarProof Module renamed to Barcode Verification - 1D Barcodes: RSS/ GS1 combined into one barcode type instead of separated; support for EAN (13 digits); EAN (8 digits); UPC-A and UPC-E, MSI and GS1-128. - 2D Barcodes: support for DataMatrix and GS1 DataMatrix. - Option to ignore Pharma code removed - Ability to inspect multiple master and/ or sample files - Ability to manually adjust the brightness, contrast and gamma of the Master and/ or Sample image	10 Jun. 2015

001	- Ability to clearing the inspection results and the Master/ Sample loaded files (Reset Interface) - Ability to use the following page for shape extraction - Ability to display an edge image to only highlight areas where differences are found - Ability to include multiple inspections in one report - Ability to exclude rename and exclude inspections from the inspection report - Ability to include the Master image in the Inspection Report - User must set the inspection status (Pass/ Fail) prior to generating the report - PDF Viewer: Addition of close icon - Support for the following DPI's: 300,400,600,800, 1200. - Addition of Shortcut keys - Help menu: addition of links to the Standard Practice and Remote Support - Left-Click instead of right-click to pan the image in the Inspection View	10 Jun. 2015
000	New Document	31 Oct. 2014

PROPRIETARY INFORMATION

GlobalVision User Guide

Table of Contents

1 Introduction

GlobalVision, herein referred to as "the Application", is an all-in-one inspection platform used to compare a sample image against a master image to generate a detailed difference report. Differences are highlighted, with levels and comments able to be added to each for an in-depth proofing and reviewing process.

The system is able to inspect and detect differences. The following is included in the solution:

- Ability to compare electronic files of the following file types: 1-BIT TIF, AI, BMP, DOC/ DOCX, HTML/ HTM, JPEG, LEN, MHTML/ MHT, PDF, PNG, RTF, TIF, TXT, XLS/ XLSX, XML.

- Ability to compare scanned and electronic files (labels, cartons, and inserts).

- Ability to compare a printed component on cylinders and tubes to an electronic file.

- Ability to inspect multi-page documents (e.g. booklets).

- Ability to identify missing, added, or modified content such as text, print defects, and color differences.

- Ability to inspect Braille on scanned samples (front side and backside).

- Ability to translate Braille in multiple languages.

- Ability to decode and grade barcodes.

- Ability to detect spelling errors.

- Ability to measure and compare color points.

- Ability to review differences and add comments and levels.

- Ability to append inspection results.

- Ability to generate PDF reports with comments and levels.

2 Getting Started

The following sections describe the log-in process and how user accounts are created.

2.1 Create User Account

Once your administrator creates your user account, you will receive an email with the subject line: "GlobalVision user account created" that contains your User Name and a temporary password. Your next step is to log in to the Application and create your new password. For more information on creating user accounts, please consult the Administration Guide.

2.2 Login

To log in to the Application:

- Click the Application shortcut on your desktop. The **Login** window will display.
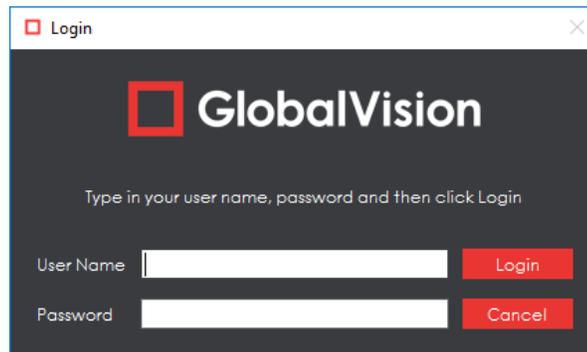
Login Window

- Enter your **User Name** and **Password** and click **Login**.

- If this is the first time you are logging in or if the Administrator has reset your password, a "Temporary password" message will display. Click **OK** and the **Password** window will display, allowing you to create a new password:
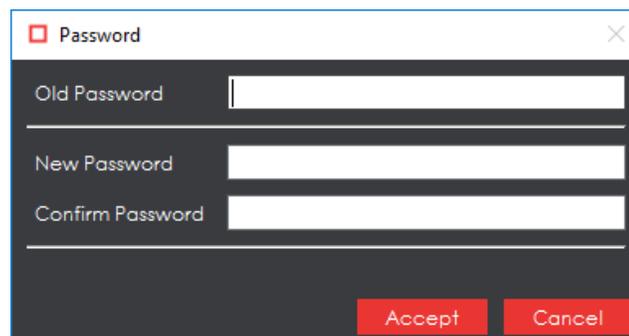
Password Window

- Enter the temporary password that you received with your email in the **Old Password** text box.

- Enter your new password in the **New Password** text box.

- Enter your new password again in the **Confirm Password** text box.

- Click **Accept** and **OK** once the notification window displays.
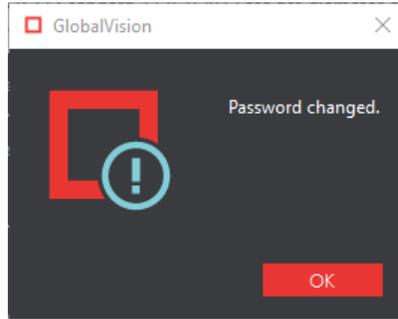
- The Main View will display. You are now ready to start setting up your inspection.
  NOTE: The Application saves your active window upon logout (not exit) and displays it at your next log-in. For example, if the Inspection View was active when you logged out, the Application will display it at your next log-in.
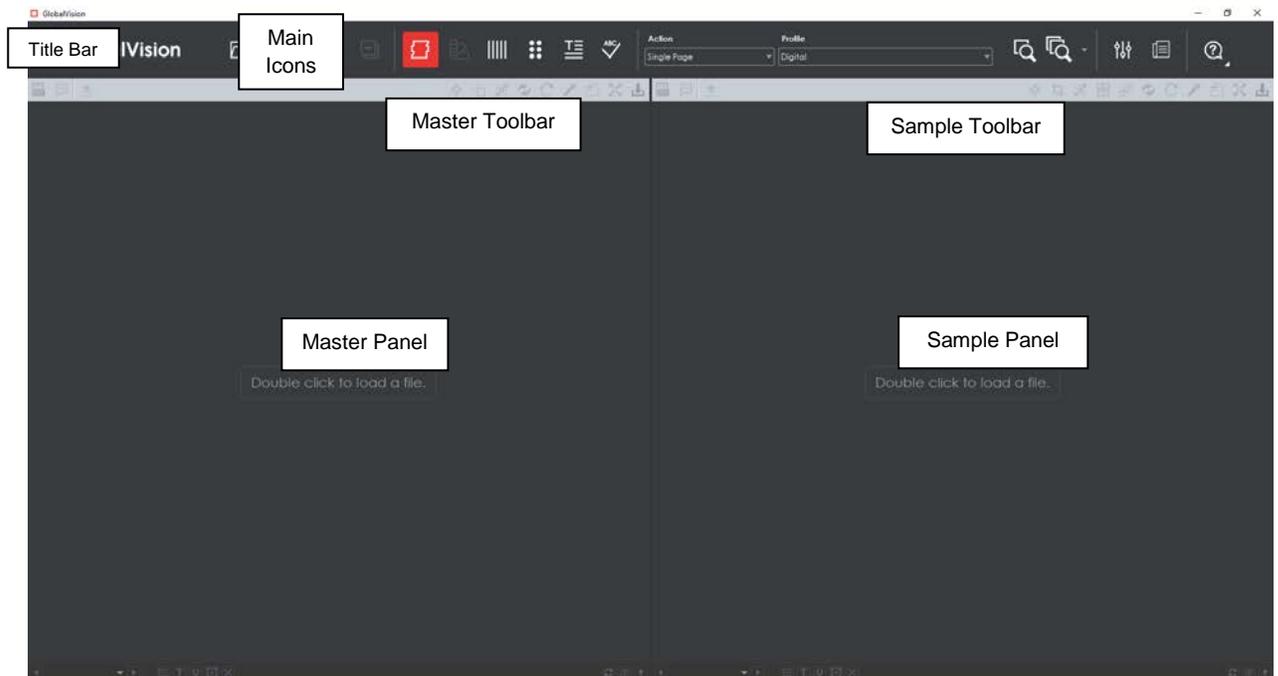
Main View

2.3 Change Password

To change your password:

- Click **File Menu** 🗁 → **Change Password**.

- The **Password** window will display, letting you create a new password:
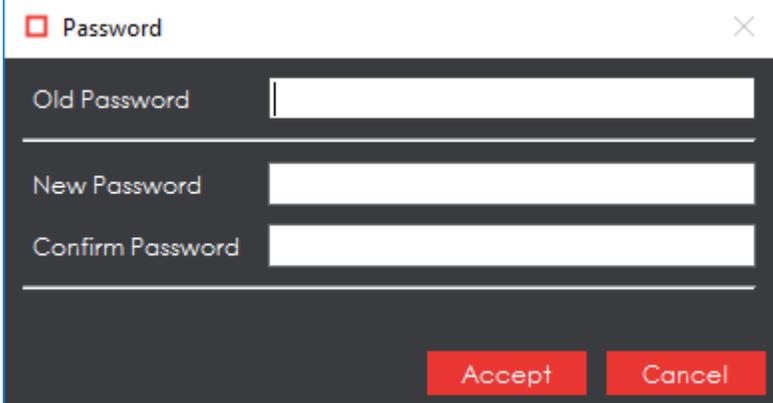
Password Window

- Enter your old password in the **Old Password** text box.

- Enter your new password in the **New Password** text box.

- Enter your new password again in the **Confirm Password** text box.

- Click **Accept**. Click **OK** once the "Password changed" notification window displays.
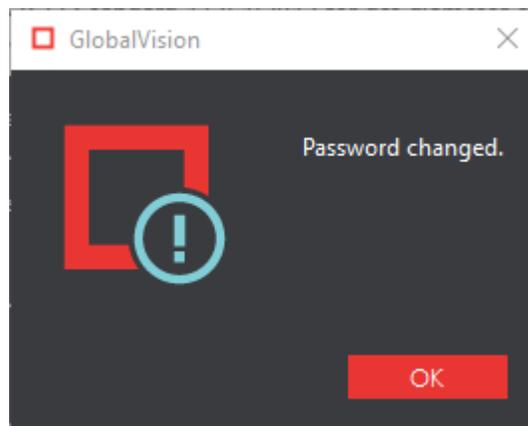
2.4 Help

The following options are available to you upon clicking the **Help** ⓠ icon:

- Select **Licensing** to request additional licenses and to enter license-key information.

- Select **Customer feedback** to request new features or report bugs.

- Select **GlobalVision Support** to link to the GlobalVision customer support portal.

- Select **Remote Support** to link to the GlobalVision support session website.

- Select **About** to get version details about the Application.

2.5 Logout/ Exit

To log out of the Application:

- Click **File Menu** 📂 → **Logout** to save your session and return to the **Login** window.

- Click **the X** on the top right of the window to exit the Application.

  NOTE: On a Mac® operating system, click **File Menu** 📂 → **Exit** or click **X** on the top left of the window to exit the Application.

2.6 Icons and Menus

LABEL	ICON	DESCRIPTION
MAIN		
FILE MENU		**FILE MENU DROP-DOWN OPTIONS:** • CREATE NEW JOB • LOAD MASTER… • LOAD SAMPLE… • RESOLUTION • 300, 400, 600, 800, 1200, Custom… • ADMINISTRATION (ADMIN/ MANAGERS ONLY) • Settings, Audit Trail, User Maintenance, Reporting Levels, Comments, Workflows, Force review of all differences, Force inclusion of all differences • CHANGE PASSWORD • LAYOUT • PREFERENCES • LOGOUT
SCANNER MENU (PRINT INSPECTION ONLY)		**SCANNER MENU DROP-DOWN OPTIONS:** • SCAN MASTER • SCAN SAMPLE • SELECT SOURCE
RESET INTERFACE		CLEAR ALL INSPECTION RESULTS AND RETURN TO THE MAIN VIEW

LABEL	ICON	DESCRIPTION
BACK		RETAIN ALL INSPECTION RESULTS AND RETURN TO THE MAIN VIEW
INSPECTION VIEW (FORWARD)		RETURN TO THE INSPECTION VIEW
GRAPHICS INSPECTION MODE		GRAPHICS INSPECTION PERFORMED WHEN SELECTED
COLOR INSPECTION MODE		COLOR INSPECTION PERFORMED WHEN SELECTED
BARCODE INSPECTION MODE		BARCODE INSPECTION PERFORMED WHEN SELECTED
BRAILLE INSPECTION MODE		BRAILLE INSPECTION PERFORMED WHEN SELECTED
TEXT INSPECTION MODE		TEXT INSPECTION PERFORMED WHEN SELECTED
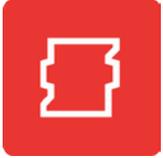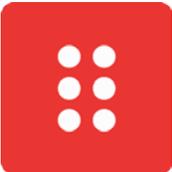
LABEL	ICON	DESCRIPTION
SPELLING INSPECTION MODE		SPELLING INSPECTION PERFORMED WHEN SELECTED
PERFORM INSPECTION		RUN THE SELECTED INSPECTION MODE
PERFORM MULTIPLE INSPECTIONS		**RUN MULTIPLE INSPECTION MODES AT ONCE:** • GRAPHICS • BARCODE • BRAILLE • TEXT • SPELL
ADJUST CURRENT PROFILE		MANAGE INSPECTION PROFILES FOR THE SELECTED INSPECTION MODE (ADMIN/ MANAGER ACCOUNTS ONLY)
GENERATE REPORT		GENERATE INSPECTION REPORT(S)
HELP		**HELP DROP-DOWN OPTIONS:** • LICENSING • CUSTOMER FEEDBACK • GLOBALVISION SUPPORT • REMOTE SUPPORT • ABOUT
MASTER/ SAMPLE		

LABEL	ICON	DESCRIPTION
PDF OPTIONS MASTER ⎪SAMPLE		TOGGLE PDF OPTIONS FOR PDF/ AI FILES ON OR OFF
FILE INFORMATION MASTER ⎪SAMPLE		IMAGE DETAILS
IMAGE ADJUSTMENTS MASTER ⎪SAMPLE		ADJUST BRIGHTNESS, CONTRAST, AND GAMMA OF MASTER OR SAMPLE IMAGES
MANUAL ALIGNMENT MASTER ⎪SAMPLE		ALIGN SELECTED POINT ON MASTER IMAGE WITH SELECTED POINT ON SAMPLE IMAGE
REGION MODE (MASTER)		**REGION MODE DROP-DOWN OPTIONS:** • FULL PAGE • MARQUEE • TRIM • SHAPE
CROP TO CONTENTS MASTER ⎪SAMPLE		AUTO-ADJUST CROP AREA WITHIN THE BOUNDS OF THE IMAGE
RELOAD PAGE MASTER⎪SAMPLE		RELOAD PAGE
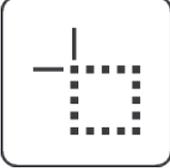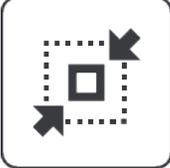
LABEL	ICON	DESCRIPTION
ROTATE MASTER |SAMPLE		**ROTATE IMAGE DROP-DOWN OPTIONS:** • ROTATE 90 CW • ROTATE 90 CCW • ROTATE 180 • ARBITRARY ROTATE (GRAPHICS INSPECTION) • MIRROR HORIZONTALLY • MIRROR VERTICALLY
COLOR PICKER MASTER |SAMPLE		DISPLAY THE PANTONE, RGB, CMYK, AND LAB VALUES OF A SELECTED POINT
MARQUEE ZOOM MASTER |SAMPLE		SELECT ZOOM AREA
RESET VIEW MASTER |SAMPLE		RESTORE IMAGE TO ORIGINAL SIZE
SAVE VIEW MASTER | SAMPLE		SAVE IMAGE DISPLAYED IN THE WINDOW
CROP (SAMPLE)		CROP THE SAMPLE IMAGE
SUPPORT ROTATED REPEATS (SAMPLE)		ENABLE DETECTION OF ROTATED OR NESTED SAMPLE IMAGES
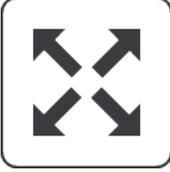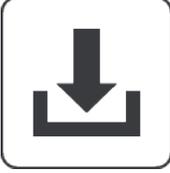
LABEL	ICON	DESCRIPTION
MATCH SCALE (SAMPLE)		SCALE SAMPLE IMAGE TO MASTER IMAGE DIMENSIONS
INSPECTION		
ROTATE MASTER |SAMPLE		**ROTATE IMAGE DROP-DOWN OPTIONS:** • ROTATE 90 CW • ROTATE 90 CCW
COLOR PICKER MASTER |SAMPLE		DISPLAY THE RGB, CMYK, AND LAB VALUES OF A SELECTED AREA
SHOW THE TEXT MASK (MASTER)		SHOW WHAT WAS DETECTED AS TEXT DURING INSPECTION
MARQUEE ZOOM MASTER |SAMPLE		SELECT ZOOM AREA
RESET VIEW MASTER |SAMPLE		RESTORE VIEW TO ORIGINAL SIZE
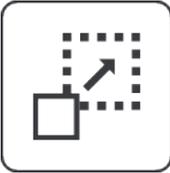
LABEL	ICON	DESCRIPTION
SAVE VIEW MASTER | SAMPLE		SAVE IMAGE DISPLAYED IN THE WINDOW
FLASH (SAMPLE)		**ADJUST THE FLASH RATE BETWEEN MASTER AND SAMPLE:** • ![+] INCREASE FLASH RATE • ![−] DECREASE FLASH RATE
SET REPEAT AS MASTER (SAMPLE)		SET SELECTED REPEAT AS MASTER IMAGE
IMAGE TO DISPLAY (SAMPLE)		**DISPLAY THE FOLLOWING IMAGES:** • FLASH • MASTER • SAMPLE • DIFFERENCE • EDGE
SHOW MASK (SAMPLE)		TOGGLE THE FOLLOWING SAMPLE ELEMENTS ON OR OFF: • MASK • NUMBERS • BOXES
DIFFERENCE REVIEW ACTIONS (SAMPLE)		**DIFFERENCE REVIEW ACTIONS:** • GROUP • ADD • EXCLUDE

LABEL	ICON	DESCRIPTION
RESYNC TEXT (SAMPLE)		REMOVE IDENTICAL RESULTS DETECTED AS DIFFERENCES FROM THE DIFFERENCE LIST (TEXT INSPECTION)
PAGE SELECTION		
PAGE SELECTION		**SELECT MASTER/ SAMPLE PAGES TO BE INSPECTED**: • ALL PAGES • EVEN PAGES • ODD PAGES • PAGE RANGE
RESET PAGES		RESET PAGE SELECTION
SHOW PAGES/ HIDE PAGES		SHOW OR HIDE ALL PAGES IN THE MASTER OR SAMPLE FILE FOR EASIER NAVIGATION
TEXT AND SPELLING TOOLS		
LIVE TEXT MASTER |SAMPLE		SHOW LIVE TEXT
CROSS-OUT TEXT MASTER |SAMPLE		CROSS OUT TEXT SO IT WILL NOT BE INSPECTED

LABEL	ICON	DESCRIPTION
UNDERLINE TEXT MASTER |SAMPLE		UNDERLINE TEXT SO IT WILL BE INSPECTED
CREATE ZONES MASTER |SAMPLE		MATCH AND COMPARE SPECIFIC SELECTIONS OF MASTER AND SAMPLE TEXT
CLEAR ALL MASTER |SAMPLE		CLEAR ALL TEXT/ SPELLING PARTIAL INSPECTION SELECTIONS
CREATE NEW JOB		
PREVIOUS		MOVE BACK TO LAST SCREEN
NEXT		MOVE TO NEXT SCREEN
CLOSE		CLOSE JOB WIZARD
INSPECT		PERFORM INSPECTION
SCAN SAMPLE		SCAN IN AND SELECT SAMPLE FILE

LABEL	ICON	DESCRIPTION
SCAN MASTER │SAMPLE		SCAN IN AND SELECT FILE
LOAD MASTER		SELECT MASTER FILE FROM FILE PATH
LOAD MASTER │SAMPLE		SELECT MASTER/ SAMPLE FILE FROM FILE PATH
SCAN FOR BARCODES	ID: 0123456	SCAN SAMPLE FOR BARCODES TO USE AS JOB ID AND TO FIND POTENTIAL MATCHES FOR MASTER FILE
ADD FROM JOB PATH		ADD MASTER FILE FROM JOB PATH VIA SCAN FOR BARCODES FEATURE
MARQUEE SELECTION		SELECT AREA ON MASTER TO INSPECT AGAINST SAMPLE
REPORT VIEWER		
RECTANGULAR ZOOM		SELECT ZOOM AREA

LABEL	ICON	DESCRIPTION
ZOOM IN		MAGNIFY THE REPORT
ZOOM OUT		ZOOM OUT OF THE REPORT
FIT DOCUMENT IN WINDOW		RESTORE VIEW TO ORIGINAL SIZE
RELOAD		RELOAD REPORT
PDF		LOAD REPORT IN PDF READER/ VIEWER
CLOSE		CLOSE WINDOW/ CANCEL
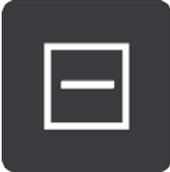
3 Inspection Setup

The following sections describe the main icons, options, and tools users will encounter as they set up their inspection.

3.1 File Menu

The **File Menu** 📂 contains the following options:

FILE MENU OPTIONS	
Create new Job	Launch the **Job Wizard**; See <u>Section 3.1.1 Job Wizard</u> for more details
Load Master…	Select and load the Master file; See <u>Section 3.1.2 Loading Files</u> for more details
Load Sample…	Select and load the Sample file; See <u>Section 3.1.2 Loading Files</u> for more details
Resolution	Select the DPI value or set a custom value; See <u>Section 3.1.3 Resolution</u> for more details
Administration (Administrators and Managers Only)	**Settings** – Manage user log-in/ log-out settings **Audit Trail** – Display audit log **User Maintenance** – Add/ Edit user accounts **Reporting Levels** – Manage pre-defined levels **Comments** – Manage pre-defined comments **Workflows** – Create and manage pre-set configurations for running multiple inspections using the Job Wizard; See <u>Section 3.1.1 Job Wizard</u> for more details **Force review of all differences** **Force inclusion of all differences** **NOTE:** Please consult the Administration Guide for more information
Change Password	Change your password; Please see <u>Section 2.3 Change Password</u> for more information
Layout	**Overview** – Displays **Overview** panel **Details** – Displays **Details** panel **Image Details** – Displays **Image Details** panel (Text Inspection) **Inspections** – Displays **Inspections** panel **Repeats** – Displays **Repeats** panel **Differences** – Displays **Difference List** (for Graphics, Text, Spelling, and Color Inspections) **Braille** – Displays **Braille** panel **Barcode** – Displays **Barcode** panel **Master Panel** – Displays Master panel **Save Layout** – Saves the current layout **Reset Layout** – Resets the default

FILE MENU OPTIONS	
	NOTE: Layout is disabled on the Main View and enabled on the Inspection View; More information on layout options specific to each inspection mode is available in subsequent chapters
Preferences	**Language** – The Application's default language is English **Hi-Contrast Different Image** - Show differences in high contrast **Mask Color** – Set the mask color **Turn on Beta features** – Access Beta features; The default is unchecked by default **Automatically zoom to each difference** – Zoom to each selected difference in the Inspection View **Show Scanner interface** – Launch the interface of the scanner software when scanning **RGB Profile** – Used to display the color space in the user interface **CMYK Profile** – Used to display the color space in the user interface **Show Job interface** – Launch the Job Wizard upon resetting the interface or logging in; See Section 3.1.1 Job Wizard for more details **System Paths** – Choose the default paths to save the cache, reports, and images
Logout	Log out from the Application and display the Login window; See Section 2.5 Logout/ Exit for more information

3.1.1   Job Wizard

This section describes the basic steps to create a new job, using the **Job Wizard**, following a workflow. For more information on workflows, which consist of pre-set configurations (including actions and profiles) to help run inspections more efficiently, please consult the Administration Guide. A detailed list of the default workflows available in the Application can be found in Appendix 11.2 Workflows.

The **Job Wizard** helps ensure all conventions within an organization are met from tester to tester and no one deviates from set processes. Printers specifically can make use of the Job Wizard and its **Scan for Barcodes** feature, which intuitively matches pre-labeled master files to barcodes on given samples.

To create a job:

- Click **File Menu** 📁 → **Create new Job**. The **Job Wizard** will display with default workflows. **NOTE:** The Job Wizard can be set to launch automatically when logging in or resetting the interface by ensuring the **Show Job Interface** in the **Preferences** window is checked.

Select a Workflow Screen

- Click on a workflow (either a default or custom workflow created by an administrator) to continue.
- The **Master & Sample Selection** screen appears.
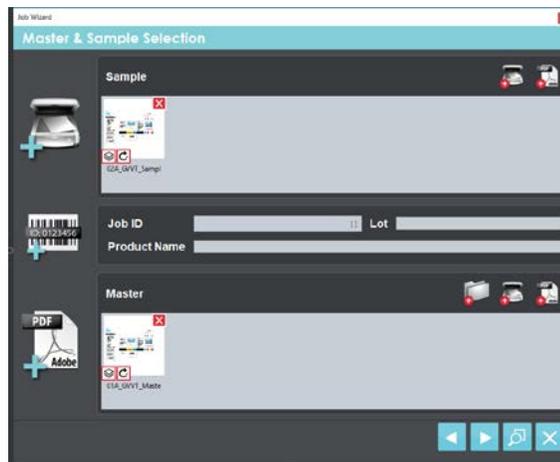
Master & Sample Selection Screen

- Click either of the **Scan Sample** buttons, to scan in hard-copy sample files as required.

- Click the **Load Sample** icon to load digital files.

- Rotate the Sample file(s) once selected if needed, by clicking the corresponding thumbnail ↻ at the bottom left of the file's thumbnail.

- Use the thumbnail (on non-scanned files) to open the **Layers and Separations** window.
  - Click the **PDF Page Box** drop-down list to choose between **Media Box**, **Trim Box**, or **Crop Box** selections to automatically crop the file.
  - Choose to enable overprint by ensuring the corresponding box is checked.
  - Click the eye icon beside the layer(s) and/ or separation(s) to toggle each on or off.
  - Click **OK** to accept.
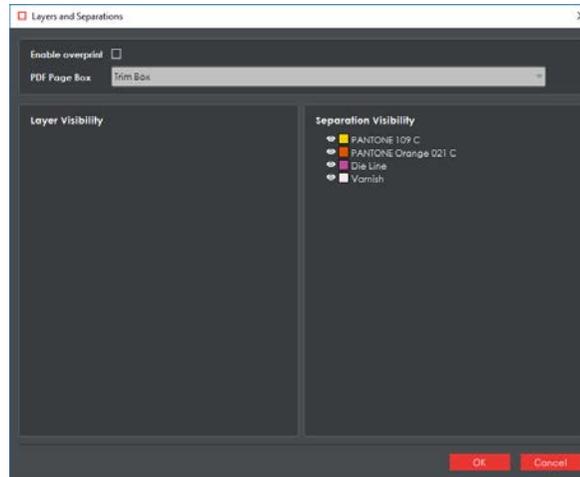
Sample Layers and Separations Window

- Scan in the Master file(s) as required, by clicking the **Scan Master** button or load a digital file
  by clicking one of the **Load Master** buttons .

- Optionally rotate the Master file(s) once it's loaded by clicking the corresponding thumbnail at
  the bottom left of the corresponding file's thumbnail.

- The thumbnail beside it (on non-scanned files) opens the **Layers and Separations** window.
  - Click the **PDF Page Box** drop-down list to choose between **Media Box**, **Trim Box**, or
    Crop Box selections to automatically crop the file.
  - Click the **Dieline** drop-down list to select a layer or separation for extraction.
  - Choose to enable overprint by ensuring the corresponding box is checked.
  - Click the eye icon beside the layer(s) and/ or separation(s) to toggle each on or off.
  - Click **OK** to accept.
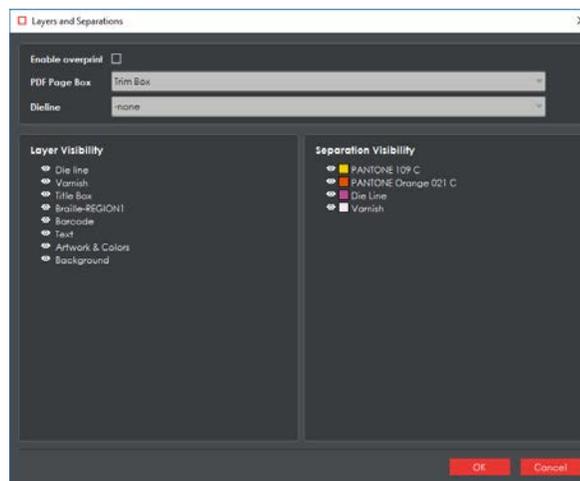
Master Layers and Separations Window

- Another method of loading the Master includes first clicking the **Scan for Barcodes** button. The **Barcode Selection** window then loads with a drop-down menu of the different barcodes contained in the loaded Sample. Select the barcode that was assigned as the Job ID, which can alternatively be typed in.
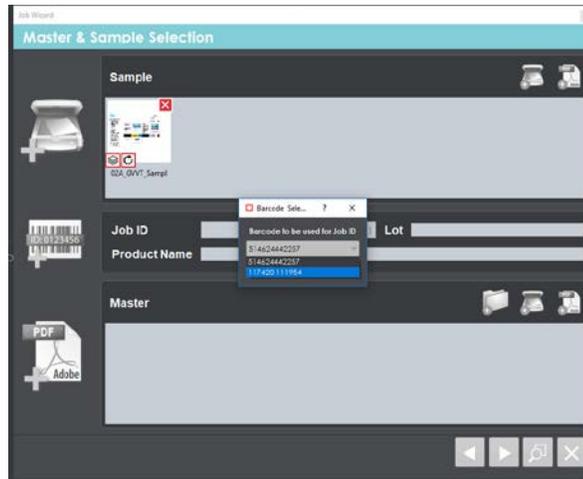
- Then click the **Add from Job Path** button to open the **Job Path** window and see a list of matching master files containing the same string in their names or parent folders. Select the Master for the current inspection.
- Fill in the **Lot** and **Product Name** fields as required. Whatever text is entered appears in the corresponding fields in the **Report Options** window as a report is being generated (and then appears in the corresponding fields in PDF reports themselves).
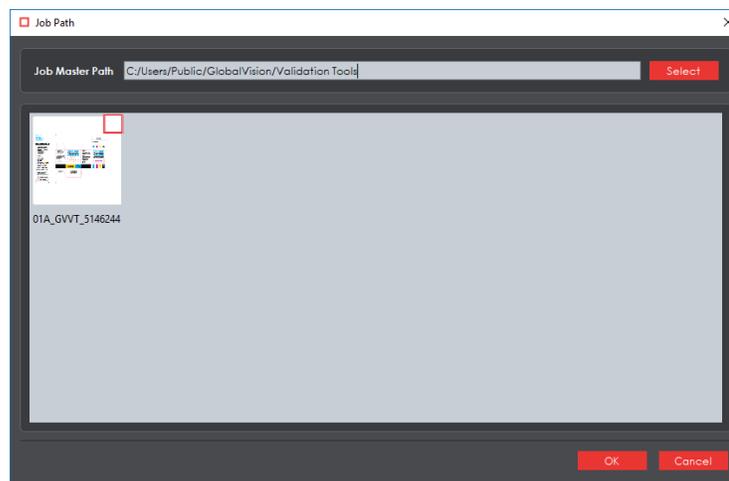
Job Path Window

- Click **Next** to move on to the **Prepare Files** screen, where the die-line color can be selected on the Master for shape extraction.
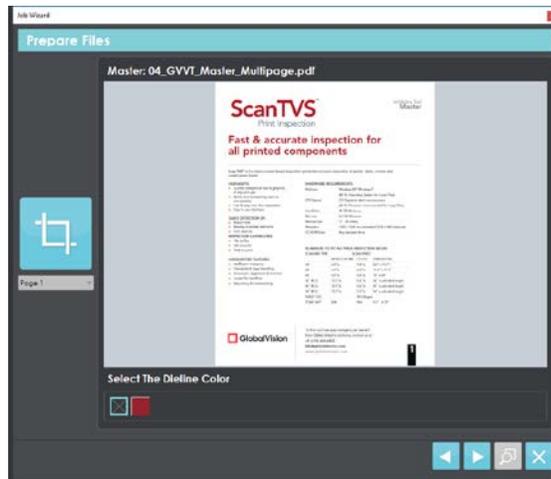
Prepare Files Screen

- Use the **Marquee Selection** tool select a different region for inspection. Click it, then on the file to select the desired region. Re-size the selection by scrolling over/ clicking on its borders and adjusting them accordingly. Click the tool again to clear the selection and start over.
- In the case of a multi-page file, selecting a different page from the drop-down list directly below the **Marquee Selection** tool enables the new one to be displayed (and adjusted). Click the **Next** button again to navigate to the next master file, if more than one had been loaded.
- Click ☒ to close the **Job Wizard** and cancel the process (at any stage).
- Click the ⌕ **Inspect** button to load the files in the Master and Sample panels and run the inspection. The process follows the same steps as a normal inspection at this point, with the file(s) just loaded in the Inspection View. Consult the [Graphics](#), [Barcode](#), [Braille](#), [Text](#), or [Spelling Inspection](#) chapters for more information.

3.1.2 Loading Files

To load a file in either the Master or Sample panel and prepare it for inspection:

- Click **File Menu** 🗀 → **Load Master** or **Load Sample**.
- You can alternatively double-click in the Master or Sample panel to launch the load-file window.
- You can also load a file by using "drag and drop."
- Once the load-file window is launched, select the required file and click **Open.**
- If the file type is PDF or AI, the integrated **PDF Viewer** will launch instead (see [Section 3.6 PDF Viewer](#)).

  NOTE: There is more information on loading files in the respective step-by-step sections of each chapter dedicated to the individual inspection processes.

3.1.3 Resolution

To set the resolution of a master or sample file to be loaded:

- Click **File Menu** 📁 → **Resolution**.

- Choose between the options available (in DPI: 300, 400, 600, 800, 1200, or Custom…).

- If the selected DPI of a file you are loading is different than the **Desired DPI** setting in the profile being used, the following message will appear:
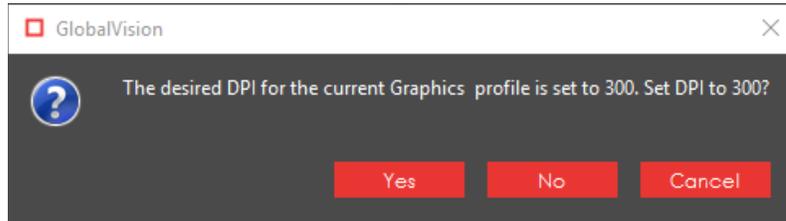
- Click yes to change the DPI to the prescribed amount or click no to move ahead with the value you had set.

  NOTE: The Master and Sample files must be rasterized at the same DPI value. If they do not match, the following message will appear when you try to run the inspection:
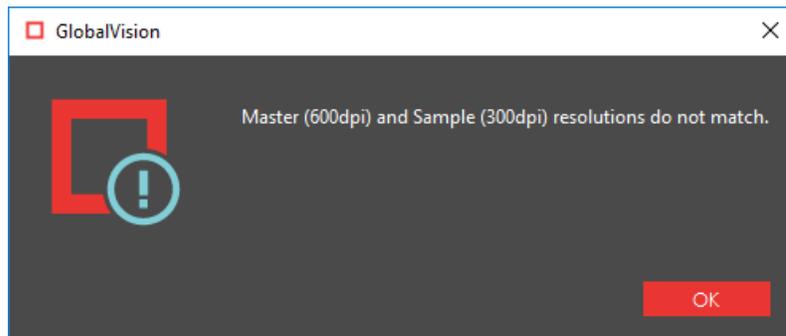
To set a custom value in DPI:

- Click **File Menu** 📁 → **Resolution**→ **Custom…**.

- Click and enter your own value or press the arrows on either side of the box.
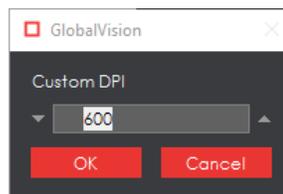
- Click OK.

3.1.4 Preferences

The following options are available in the **Preferences** window:
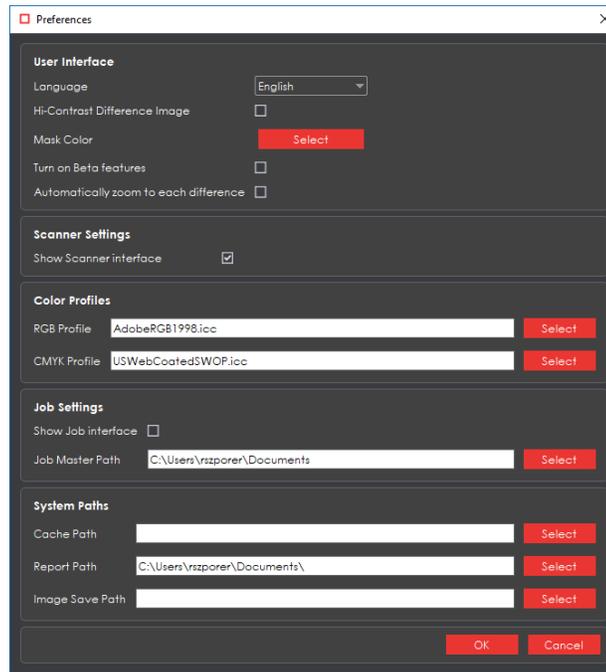
Preferences Window

- **Language:** The Application's default setting is English.

- **Hi-Contrast Difference Image:** This option displays differences between the Master and Sample images in higher contrast. For more information, see Section 5.3.3.3 Show Difference Image.

- **Mask Color:** This option lets the user set the mask color, with the ability to pick screen or custom colors. For more information, see Section 5.3.4.1 Show Mask.

- **Turn on Beta features:** When checked, different Beta features will be usable in different areas of the Application. The default is unchecked.

- **Automatically zoom to each difference:** When checked, the selected difference, barcode, or Braille region will be zoomed in to instead of just highlighted in the Inspection View.

- **Show Scanner interface:** When checked, the Application goes through the scanner software when scanning. When unchecked, the scanner software is not displayed.

- **RGB Profile:** The RGB Profile is used to display the color space in the user interface. The default profile is AdobeRBG1998.icc.

- **CMYK Profile:** The CMYK Profile is used to display the color space in the user interface. The default profile is USWebCoatedSWOP.icc.

- **Show Job interface:** When checked, this option automatically loads the **Job Wizard** whenever the Application is opened or the interface is reset.

- **Job Master Path:** Set the default path loaded when selecting master files on the **Master & Sample Selection** screen of the **Job Wizard**.

- **Cache Path:** Set where data is stored by the Application.

- **Report Path:** Set the location of where generated reports are saved.

- **Image Save Path:** Set the default path when saving images.

3.2 Inspection Modes

Graphics Inspection Mode requires the user to load the desired Sample and Master files and select the proper area for a pixel-by-pixel inspection. For more information, see Chapter 5 Graphics Inspection.

Barcodes on master or sample images can be inspected in **Barcode Inspection Mode** . See Chapter 6 Barcode Inspection for more on individual features as well as detailed instructions and guidelines.

Braille on master or sample images can be inspected or compared in **Braille Inspection Mode** . The process involves loading the desired file(s) and choosing between six separate actions, with a wide variety of Braille languages available. For more information, see Chapter 7 Braille Inspection.

Text Inspection Mode compares the text in two like or unlike documents. For example, an internally approved Microsoft® Word® document can be inspected as the Master, with a printer's proof of the laid-out packaging loaded as the Sample. Change settings to switch between inspecting left-to-right, right-to-left, and Asian languages. For more information, see Chapter 8 Text Inspection.

Spelling Inspection Mode inspects the spelling of a file and detects errors using 37 language dictionaries and one English medical dictionary. For more information, see Chapter 9 Spelling Inspection.

Color Inspection Mode is used to either measure the Pantone, LAB, CMYK, and RGB values of a selected point or compare a collection of points on a master and sample based on a custom-set Delta-E tolerance level. For more information, see Chapter 10 Color Inspection.

3.3 Master Toolbar

The toolbar at the top of the Master panel contains the following tools:
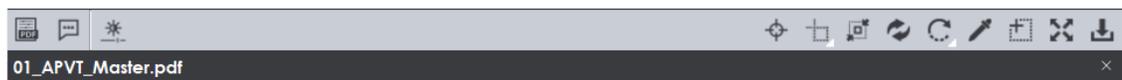
Master Toolbar

3.3.1 File Name

The loaded file's name appears in the lower half of the toolbar, with an **X** on the far side. To clear the panel and load another file, simply click the **X** and start the file-loading process again.

3.3.2 PDF Viewer

If a PDF or AI file is loaded in the Master panel, the **PDF Options** icon can be clicked, toggling access to a separate set of tools on or off. See Section 3.6 PDF Viewer for more details.

3.3.3 Master File Information Panel

To display information about the Master file:

- Click File **Information** 💬 . The following information will display:

File Type: pdf
Rastered DPI: 300
Image Size: 5100 x 4512 pixels
Memory Size: 65.8 MB

Master File Information Panel

- **File Type**: The originating file format
- **Rastered DPI**: The DPI at which the file was rasterized
- **Image Size:** The size of the image (pixels)
- **Memory Size:** The amount of physical memory the rasterized image uses (MB)

3.3.4 Master Image Adjustment Panel

To adjust the Master image's brightness, contrast, and/ or gamma value:

- Click **Image Adjustments** .

Brightness		0
Contrast		0
Gamma		2.50

Image Adjustments Panel

- Click the button in the center of the applicable bar and slide it to the right or left to adjust the setting as required.
- You can alternatively click on the arrows on either end of the different fields or manually enter values in each.
- Click **Apply** to make the changes. The Master image will display in the Master panel with the adjusted brightness, contrast, and or gamma value.
- Click **Cancel** to close the **Master Image Adjustments** panel.

3.3.5 Manual Alignment

Manual Alignment ⊕ preps the loaded images for a pixel-by-pixel comparison by using a selected reference point on the Master and Sample files.

NOTE: The loaded images must have the same orientation and be approximately the same size. Click

Master Information 💬 or **Sample Information** 💬 to get the image size.

To use the **Manual Alignment** tool:

- Click **Marquee Zoom** [icon] on the Master toolbar to zoom in on an area on the Master to select the reference point.

- Left-click and move the crosshairs that appear around the desired area. A red box will surround it.
- Release the button to magnify the area and select it as the reference point.
- Repeat the process in the Sample panel.

Master and Sample Images Before Marquee Zoom
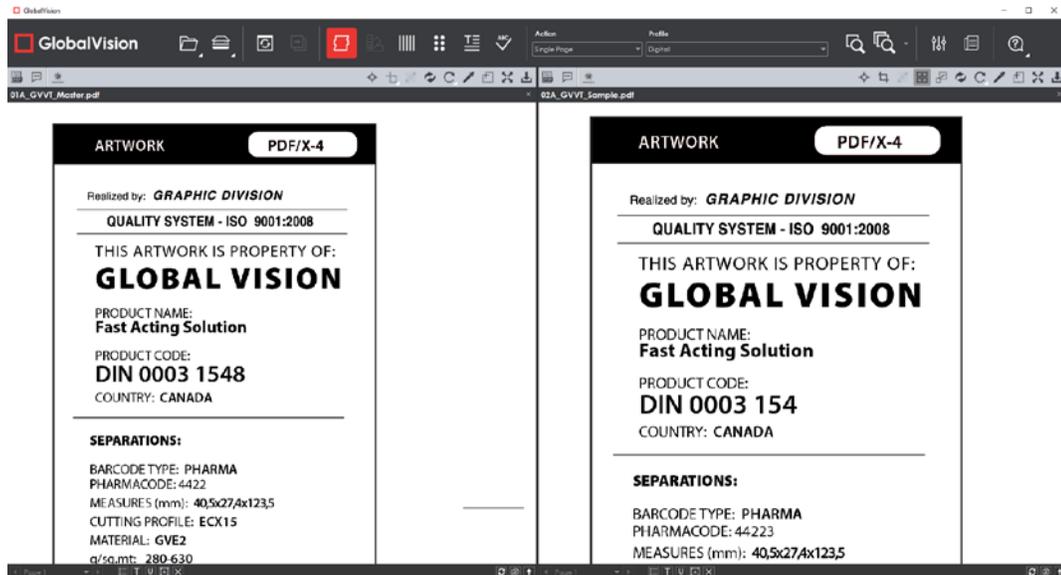
Master and Sample Images After Marquee Zoom

- Click **Manual Alignment** ⊕ on each of the Master and Sample toolbars and select the reference points.
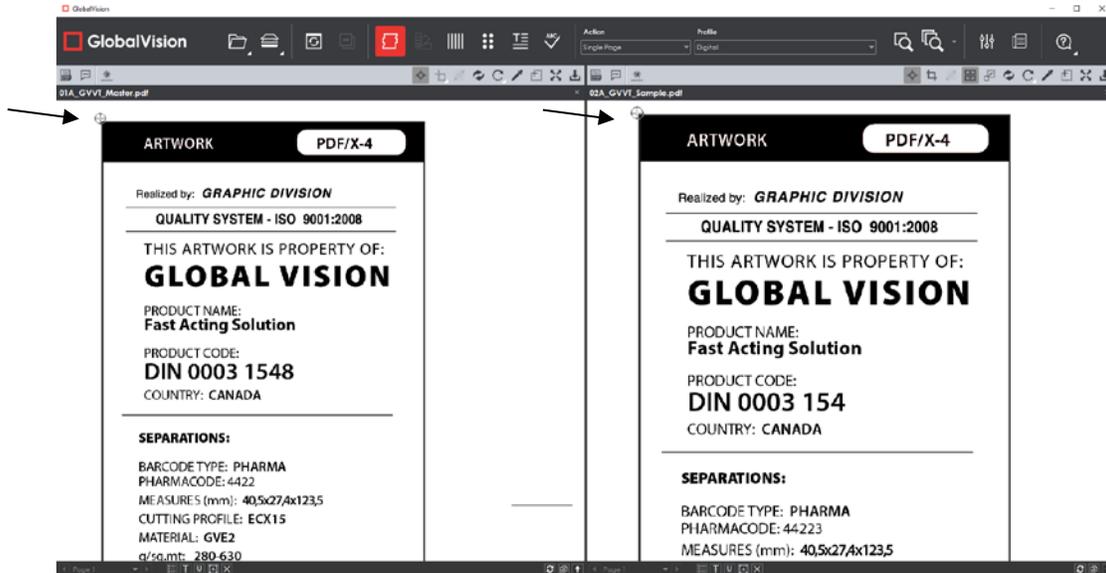
Manual Alignment with Selected Point of Reference

3.3.6 Region Mode

Region Mode ⊡ lets you select an area in the image to be inspected.

NOTE: The minimum cropping area is 100 x 100 pixels.

> If you right-click on a layer (e.g. die line) and choose **Set as shape region & hide** or **Use as shape region** in the integrated PDF Viewer, it will automatically be set to the **Shape**. Selecting the shape is key when inspecting repeats. See **Marquee** and **Shape** below for other methods using **Region Mode**.

To select an area in the Master image to be used in the inspection:

- Click **Region Mode** ⊡ and select one of the options.
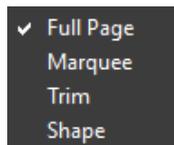
Region Mode Drop-Down Box

– **Full Page**: The entire page will be selected as the inspection area.

– **Marquee**: Left-click and use the crosshairs that appear to select the area to be used as the inspection area. A red box will surround the selected area.
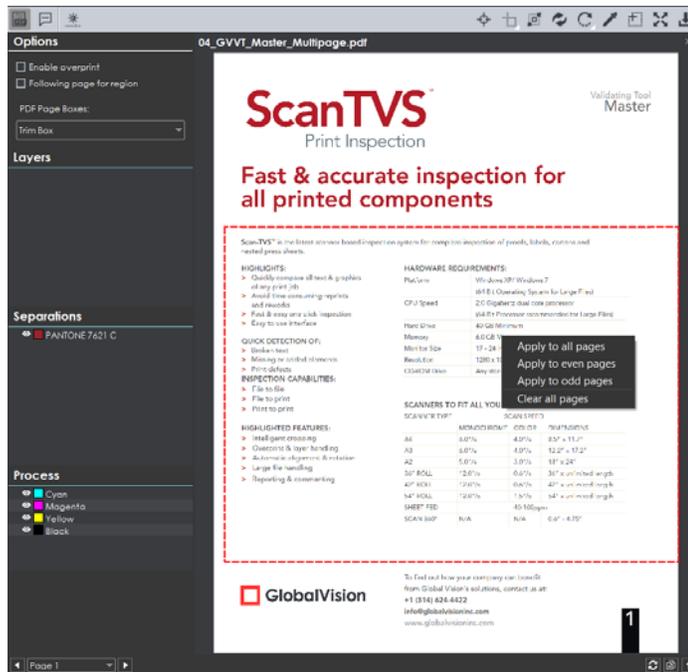
– **Trim**: The largest bounding area of the image is selected as the inspection area. A red box will surround the selected area.

– **Shape**: Shape mode is used to detect a shape for repeat detection. Left-click on the shape to be used as the inspection area. The selected shape will display in the Master panel. **NOTE:** You can also create a shape for repeat detection with the **Marquee** tool, by creating

the shape and clicking **Crop to Contents** afterwards.

For multi-page files, an area in the Master can be selected on one page and applied to other pages:

- Right-click on the **Marquee** selection (the area you have selected to use in the inspection).

- The "Context" Menu will display.

- Choose between applying the selection to all, even, or odd pages.

- Click **Clear all pages** to remove the selection.
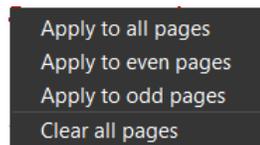
Context Menu

3.3.7 Crop to Contents

To tighten the crop selection so that it includes only the object:

- Click **Region Mode** and select **Marquee.**

- Select an area using the crosshairs that appear. A red box will surround the selected area.

- Click **Crop to Contents** . The crop selection will adjust to contain only the revised selection.

3.3.8 Reload Master

To reload the Master:

- Click **Reload Page** . The image will reload in the Master panel.

3.3.9 Rotate Master

To rotate the Master 90^0 clockwise:

- Click **Rotate** → **Rotate 90 CW**.

To rotate the Master 90^0 counter-clockwise:

- Click **Rotate** → **Rotate 90 CCW**.

To rotate the Master 180^0 clockwise:

- Click **Rotate** → **Rotate 180**.

To specify the angle to rotate the Master:

- Click **Rotate** → **Arbitrary rotate**. The **Master Rotation** window will display.
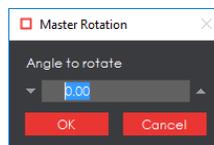
Master Rotation Window

- Insert the desired angle by typing in the prompt or clicking the arrows on either side.

- Click **OK.**

   NOTE: Not recommended for **Text** and **Spelling Inspection** modes.

To mirror-rotate the Master horizontally:

- Click **Rotate** → **Mirror Horizontally**.
   NOTE: Not recommended for **Text** and **Spelling Inspection** modes.

To mirror-rotate the Master vertically:

- Click **Rotate** → **Mirror Vertically.**
   NOTE: Not recommended for **Text** and **Spelling Inspection** modes.

3.3.10 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the Master image:

- Click the **Color Picker** ✏ .
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the point selected.
  NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.
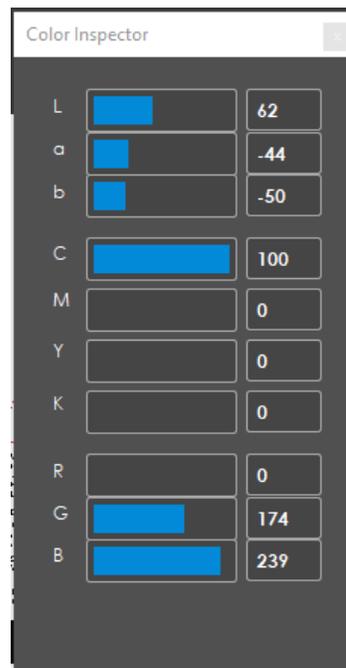
Color Inspector Window

3.3.11 Marquee Zoom

To magnify the image:

- Place the cursor in the Master panel.

- Scroll upward with the track wheel.

  NOTE: On a Mac operating system, scroll downward with the track wheel if the Scroll Direction: Natural setting is ON.

To select an area in the image to magnify:

- Click **Marquee Zoom** ⊞ .

- Select the area using the left button of your mouse or scroll upward with the track wheel.

NOTE: On a Mac operating system, scroll downward with the track wheel if the Scroll Direction: Natural setting is ON.

To reduce the magnification:

- Place the cursor in the Master panel.

- Scroll downward with the track wheel.

  NOTE: On a Mac operating system, scroll upward with the track wheel if the Scroll Direction: Natural setting is ON.

To pan:

- Left-click in the Master panel. Hold and move the mouse around the panel.

3.3.12 Reset View

To restore the image to its original size:

- Click **Reset View** ⛶ .

3.3.13 Save View

To save the Master image view:

- Click **Save View** ⬇ .
- The **Save As** window will display. Enter the file name in the desired location and click **Save**.

3.4 Sample Toolbar

The toolbar at the top of the Sample panel contains the following tools:

02_APVT_Sample.pdf
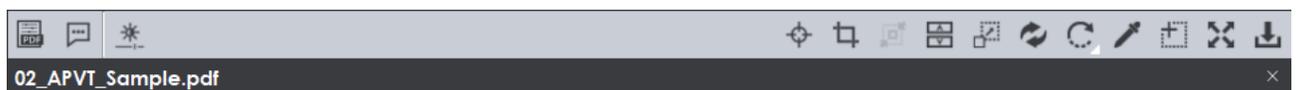
Sample Toolbar

3.4.1 PDF Viewer

If a PDF or AI file is loaded in the Sample panel, the integrated **PDF Options** icon can be clicked, toggling access to a separate set of tools on or off. See Section 3.6 PDF Viewer for more details.

3.4.2 File Name

The loaded file's name appears in the lower half of the toolbar, with an **X** on the far side. To clear the panel and load another file, simply click the **X** and start the file-loading process again.

3.4.3 Sample File Information Panel

To display information about the Sample file:

- Click **File Information** ⬜. The following information will display:
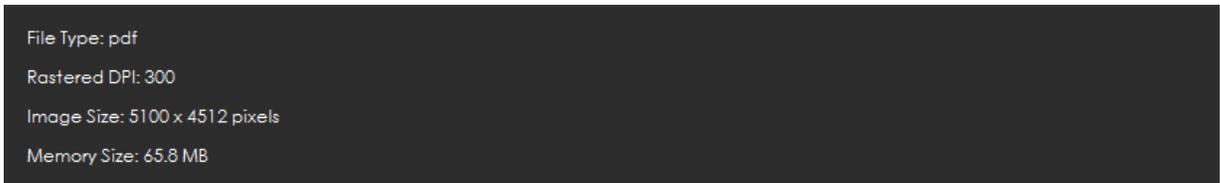
File Type: pdf
Rastered DPI: 300
Image Size: 5100 x 4512 pixels
Memory Size: 65.8 MB

Sample File Information Panel

- – **File Type**: The originating file format
- – **Rastered DPI**: The DPI at which the file was rasterized
- – **Image Size:** The size of the image (pixels)
- – **Memory Size:** The amount of physical memory the rasterized image uses (MB)

3.4.4 Sample Image Adjustment Panel

To adjust the Sample image's brightness, contrast, and/ or gamma value:
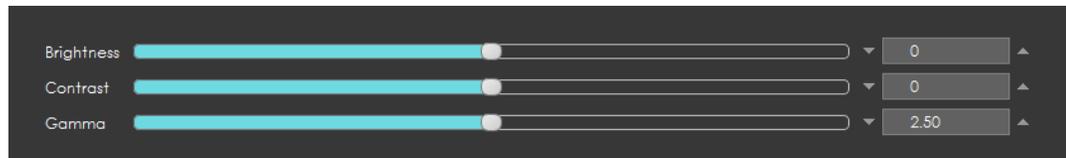
- Click **Image Adjustments** ☀.

Brightness		0
Contrast		0
Gamma		2.50

Image Adjustments Panel

- Click the button in the center of the applicable bar and slide it to the right or left to adjust the settings as required.
- You can alternatively click on the arrows on either end of the different fields or manually enter values in each.
- Click "**Apply**" to make the changes. The Sample image will display in the Sample panel with the adjusted brightness, contrast, and or gamma value.
- Click **"Cancel"** to close the **Sample Image Adjustments** panel.
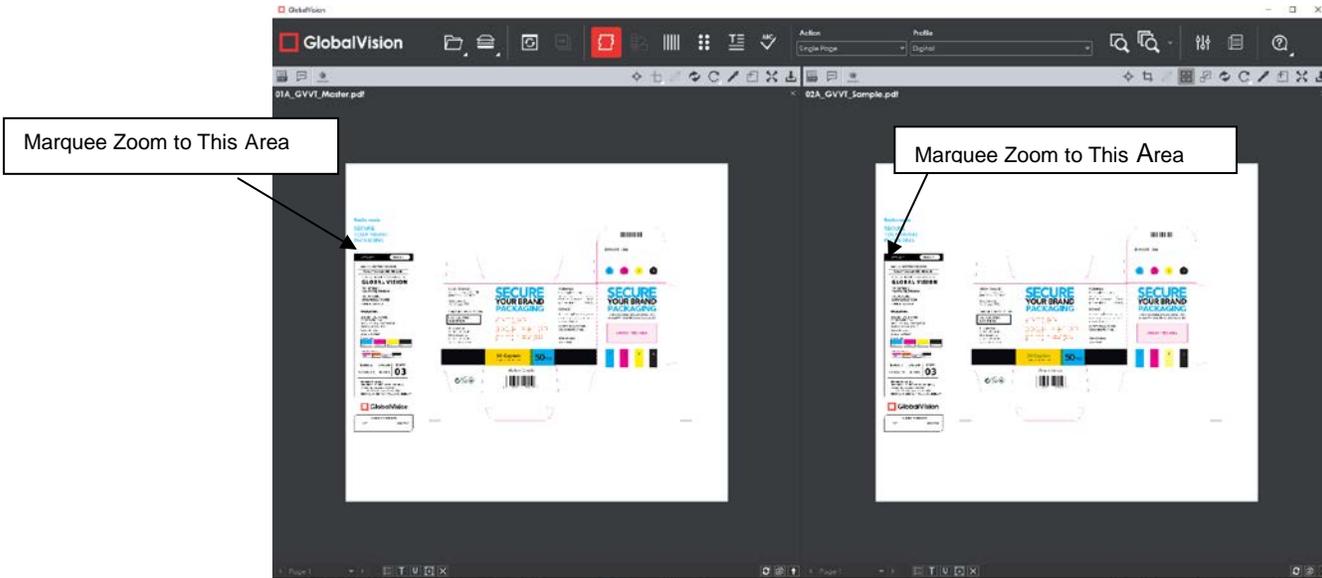
3.4.5 Manual Alignment

Follow the process described in Section 3.3.5 Manual Alignment.

3.4.6 Crop Sample

To select an area of the Sample image to be inspected:

NOTE: The minimum cropping area is 100 X 100 pixels.

- Click **Crop** .

- Left-click and select an area using the crosshairs that appear. A red dotted line will surround the selected area.

For multi-page files, an area in the Sample can be selected on one page and applied to other pages:

- Right-click on the **Crop** selection (the area you have selected to use in the inspection).

- "Context" Menu will display.

- Choose between applying the selection to all, even, or odd pages.

- Click **Clear all pages** to remove the selection.

Apply to all pages
Apply to even pages
Apply to odd pages
Clear all pages
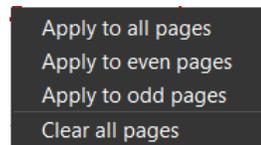
Context Menu

3.4.7 Crop to Contents

To tighten the crop selection so that it includes only the object:

- Click **Crop Sample** .

- Left-click and select an area using the crosshairs that appear. A red dotted line will surround the selected area.

- Click **Crop to Contents** . The crop selection will adjust to contain only the revised selection.

3.4.8 Support Rotated Repeats

To run an inspection using a sample image that contains rotated repeats of the Master:

- Click **Support Rotated Repeats** before running the inspection. During the inspection, the images will be compared as if there was no rotation.

3.4.9 Match Scale

Match Scale lets you compare images with different sizes by scaling the dimensions of the Sample cropped area to match the dimensions of the Master cropped area.

NOTE: The minimum cropping area is 100 X 100 pixels.

To use **Match Scale** :

- In the Master panel, click **Region Mode** [icon] → **Marquee** and select the crop area. Use **Crop to Contents** [icon] to get a tighter crop.

- In the Sample panel, click **Crop** [icon] and select the crop area. Use **Crop to Contents** [icon] to get a tighter crop area.

- Click **Match Scale** [icon]. When the inspection is run, the Sample cropped area will be inspected as if it were the same size as the Master cropped area.

  NOTE: Both the Master and Sample images must be cropped before **Match Scale** is used.

Cropped Area

Cropped Area (Smaller than Master)
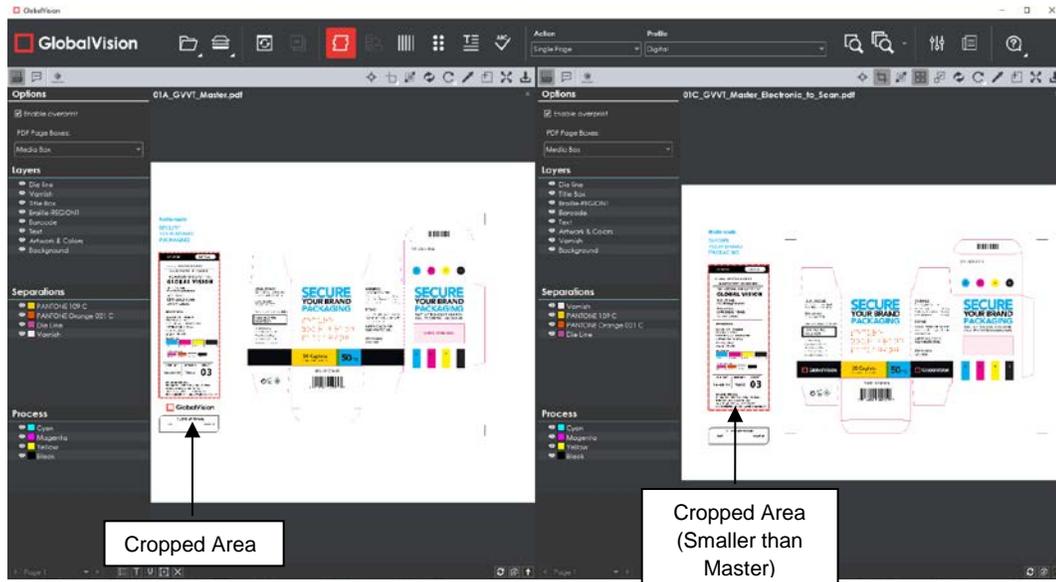
Main View with Match Scale Selected

3.4.10 Reload Sample

To reload the sample:

- Click **Reload** [icon]. The image will reload in the Sample panel.

3.4.11 Rotate Sample

To rotate the Sample 90° clockwise:

- Click **Rotate** [icon] → **Rotate 90 CW**.

To rotate the Sample 90° counter-clockwise:

- Click **Rotate** [icon] → **Rotate 90 CCW**.

To rotate the Sample 180° clockwise:

- Click **Rotate** [icon] → **Rotate 180**.

To specify the angle to rotate the Sample:

- Click **Rotate** [icon] → **Arbitrary rotate**. The **Sample Rotation** window will display.

  NOTE: Not recommended for **Text** and **Spelling Inspection** modes.

- Insert the desired angle by typing in the prompt or clicking the arrows on either side.

- Click **OK**.

To mirror-rotate the Sample horizontally:

- Click **Rotate** [icon] → **Mirror Horizontally**.
  NOTE: Not recommended for **Text** and **Spelling Inspection** modes.

To mirror-rotate the Sample vertically:

- Click **Rotate** [icon] → **Mirror Vertically.**
  NOTE: Not recommended for **Text** and **Spelling Inspection** modes.

3.4.12 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the Sample image:

- Click the **Color Picker** [icon].
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
  NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.
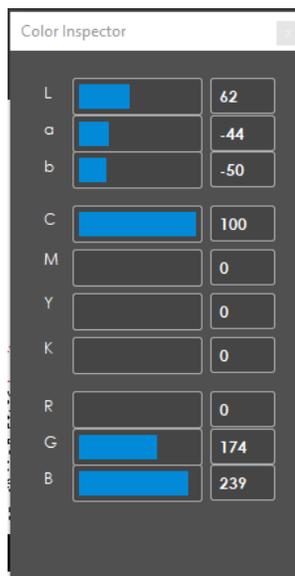
Color Inspector Window

3.4.13 Marquee Zoom

To magnify the image:

- Place the cursor in the Sample panel.

- Scroll upward with the track wheel.

  NOTE: On a Mac operating system, scroll downward with the track wheel if the Scroll Direction: Natural setting is ON.

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area using the left button of your mouse or scroll upward with the track wheel.

  NOTE: On a Mac operating system, scroll downward with the track wheel if the Scroll Direction: Natural setting is ON.

To reduce the magnification:

- Place the cursor in the Sample panel.

- Scroll downward with the track wheel.
  NOTE: On a Mac operating system, scroll upward with the track wheel if the Scroll Direction: Natural setting is ON.

To pan:

- Left-click in the Sample panel. Hold and move the mouse around the panel.

3.4.14 Reset View

To restore the image to its original size:

- Click **Reset View** .

3.4.15 Save View

To save the Sample image view:

- Click **Save View** .
- The **Save As** window will display. Enter the file name in the desired location and click **Save**.

3.5 Page Selection Toolbar

The Master/ Sample Page Selection toolbar on the bottom of the panel contains the following tools:

Page Selection Toolbar

3.5.1 Page Navigation

To display a different page in the Master/ Sample panel before or after inspections:

- Click the left or right arrows on either side of the **Page Navigation** tool.

- You can alternatively click on the arrow in the middle of the tool to access the **Page Navigation** drop-down menu and go directly to the page of your choice.

  NOTE: When performing single-page inspections on multi-page files, this feature will be disabled after the inspection is run.

Page Navigation

3.5.2 Live Text

To highlight all inspectable text (in **Text** and **Spelling Inspection modes**, for example) in the Master or Sample panel:

- Click on the corresponding **Live Text** icon.

To remove the highlights:

- Click the icon again.
  NOTE: Text that isn't live (and is part of an image, for example) can still be inspected, but only as part of a pixel-to-pixel comparison between two similarly laid-out files in **Graphics Inspection**.

3.5.3 Cross-out Text

To exclude text from text and spelling inspections:

- Click the appropriate **Cross-out Text** icon (in either the Master or Sample panel).
- Click and drag the crosshairs icon that appears as the cursor over the text to be excluded in either the Master or Sample panel.
  NOTE: Multiple selections can be made.

To apply a cross-out to different portions of a multi-page file:

- Right-click on the crossed-out text.
- In the "Context" menu that appears, select to apply the cross-out to all pages, odd pages, even pages, or identical text elsewhere in the file.
  NOTE: Clear removes the currently selected crossed-out text. **Clear All** removes all cross-outs.
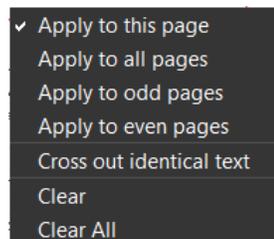
Context Menu

To cancel out underlined text (see Section 3.5.4 Underline Text) using **Cross-out Text**:

- Click on **Cross-out Text**.
- Click and drag the crosshairs icon that appears as the cursor over the underlined text.
- The underlines will be removed.
  NOTE: Cross-out Text and **Underline Text** cannot otherwise be applied together in the same file (unless it is to cancel the other one out).

3.5.4 Underline Text

To specifically include text in text and spelling inspections (and exclude all other text):

- Click the appropriate **Underline Text** icon (in either the Master or Sample panel).
- Click and drag the crosshairs icon that appears as the cursor over the text to be included in either the Master or Sample panel.
  NOTE: Multiple selections can be made.

To apply an underline to different portions of a multi-page file:

- Right-click on the underlined text.
- In the "Context" menu that appears, select to apply the underline to all pages, odd pages, even pages, or identical text elsewhere in the file.
  NOTE: Clear removes the currently selected underlined text. **Clear All** removes all underlines.

To cancel out crossed-out text (see Section 3.5.3 Cross-out Text) using **Underline Text**:

- Click on **Underline Text**.
- Click and drag the crosshairs icon that appears as the cursor over the crossed-out text.
- The cross-outs will be removed.
  NOTE: Cross-out Text and **Underline Text** cannot otherwise be applied together in the same file (unless it is to cancel the other one out).

3.5.5 Create Zones

Create Zones can be used to specifically include sections of text in text inspections (excluding all other text) and compare them directly to the corresponding portions in the other panel. This comes in handy when inspecting tables, by selecting different columns/ rows individually in each of the Master and Sample panels.

To start creating a zone:

- Click the Create **Zones** icon below the Master or Sample panel.
- Click and drag the crosshairs icon that appears as the cursor over the text to be included. The text is highlighted, and an ID is assigned.
- Repeat the process in the other panel and highlight the corresponding text. The text is highlighted, and a corresponding ID is assigned.
- Create new zones by clicking and dragging separate portions of text in each panel, one at time.
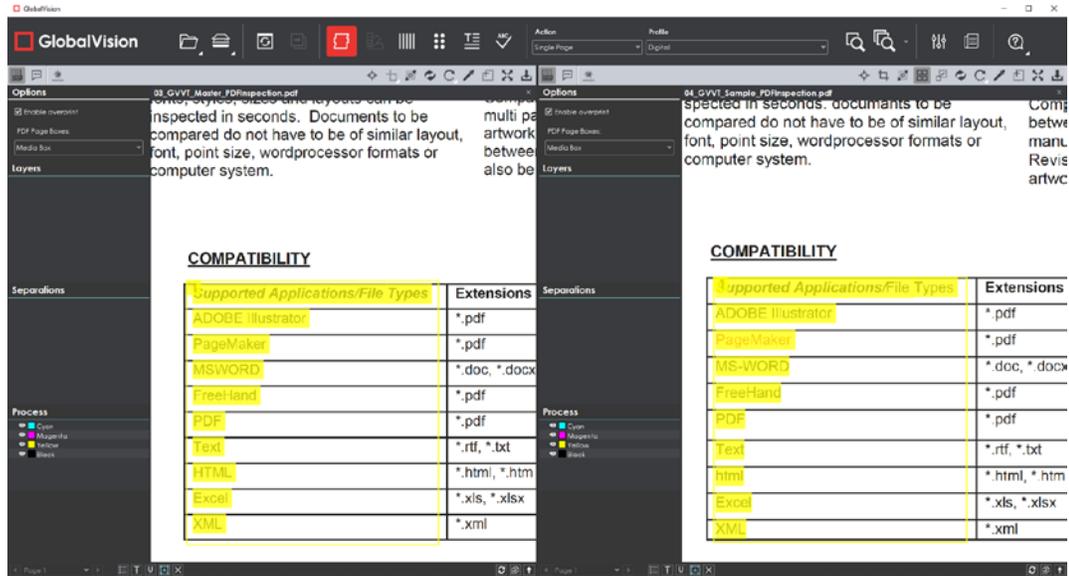
Zone #1 Selected in Master and Sample Panel

To add to a zone:

- Right-click on a zone that has already been selected, prompting the "Context" menu to appear.
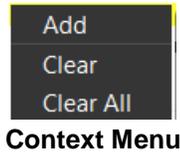
Context Menu

- Select **Add**.
- Click and drag the cursor over a new portion of text.
- The same number designation of the original zone will appear at the top of the newly selected portion of text.
- Repeat the process in the other panel if necessary.

To clear a zone:

- Right-click on a zone that has already been selected, prompting the "Context" menu to appear.
- Select **Clear** to delete a zone and its counterpart in the opposite panel.
  NOTE: Clear also deletes the original zone if you had right-clicked on an added portion.
- Select **Clear All** to delete all zones in both panels.

3.5.6 Clear All

To clear all underlines, cross-outs, or zones in a master or sample file:

- Click the **Clear All** icon. The following window will appear, asking if you want to continue:
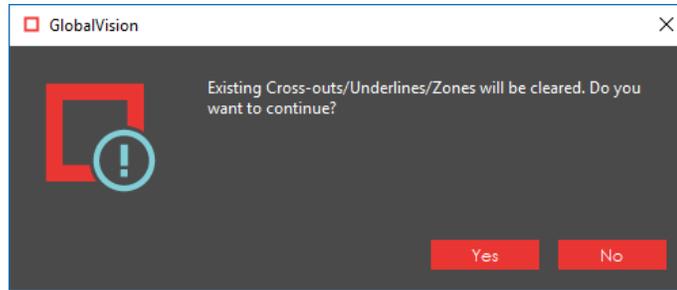
- Click **Yes**.

3.5.7 Page Selection

Click the **Page Selection** icon for the option to include or exclude pages from a multi-page document when running an inspection. This will launch the **Select Pages** window. When clicking the icon in the Master panel, the **Select Master Pages** window pops up. When clicking the icon in the Sample panel, the **Select Sample Pages** window pops up instead.
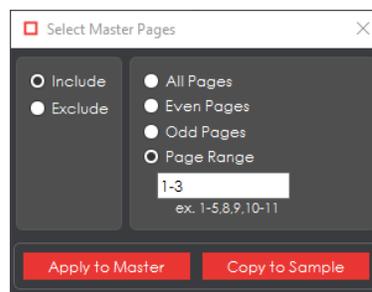
Select Master Pages Window

To include/ exclude different pages in a master or sample file before running an inspection:

- Click **Include** or **Exclude** on the left side of the window.
- Click either **All Pages**, **Even Pages**, or **Odd Pages**, or enter a custom range on the right side.
- Select **Apply to Master**/ **Apply to Sample**, depending on the panel in which the Page Selection icon was first clicked, to finalize the page range.
- Select **Copy to Sample**/ **Copy to Master** to apply the same range to the other panel.
  NOTE: Copy to Sample/ **Copy to Master** can only be used when the number of pages is the same in the Master and Sample.

To reset the pages and negate your selection:

- Click the **Reset Pages** icon to the left of the **Page Selection** icon.

3.5.8 Show Pages

The **Show Pages** icon shows/ hides an extra panel displaying all the pages loaded in the Master or

Sample panel. When the panel is hidden, an up arrow [↑] appears. Once the icon has been clicked and

the panel appears, displaying the different pages, a down arrow [↓] appears instead.

NOTE: The icon is disabled once an inspection is run.
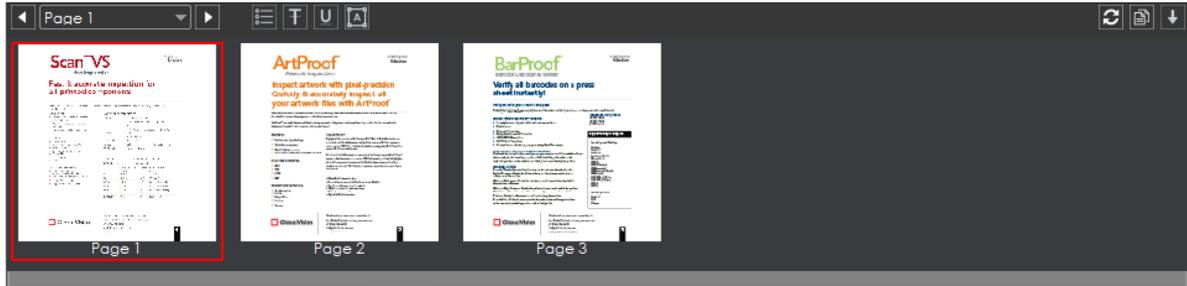
Show Pages Panel

To display a different page in the Master or Sample panel:

- Click on the page of your choice in the **Show Pages** panel.

To scroll through the loaded pages in the **Show Pages** panel:

- Move the mouse over the scroll bar at the bottom of the panel.

- Scroll the track wheel up or down or left-click the mouse and move it in the desired direction.

- You can alternatively right-click on the scroll bar at the bottom of the panel and choose between the following options:

  - **Scroll here**

  - **Left edge** or **Right edge**

  - **Page left** or **Page right**

  - **Scroll left** or **Scroll right**

To exclude a page from the inspection:

- Right-click on a page in the panel to reveal the **Exclude Page** option.

- Click it to cross the page out and exclude it from the inspection.
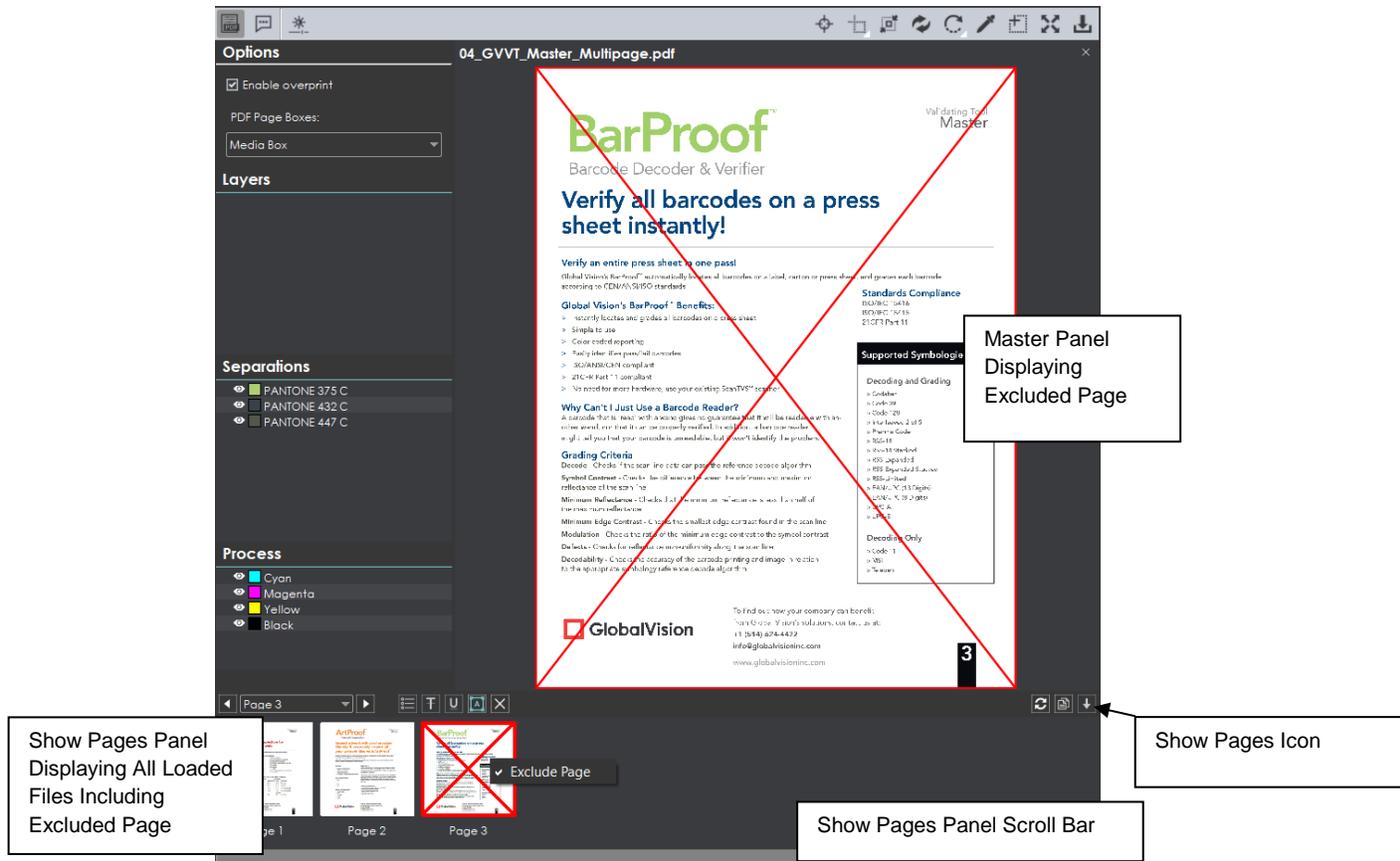
To re-include excluded page(s):

- Right-click a page and unselect the **Exclude Page** option that appears.
- Alternatively click the **Reset Pages** ⟳ icon to reset all pages.

3.6 PDF Viewer

The integrated **PDF Viewer** launches when you load a PDF or AI file. It consists of various panels and can be toggled on/ off and hidden from view when clicking the **PDF Options** [icon] button on the far left of either the Master or Sample toolbar.
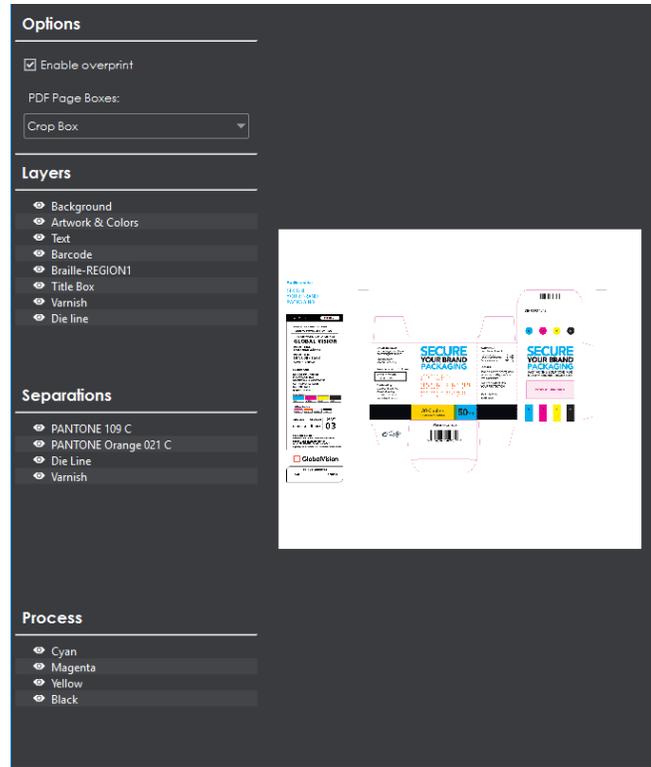
Integrated PDF Viewer

3.6.1 PDF Viewer Options Panel

3.6.1.1 Options
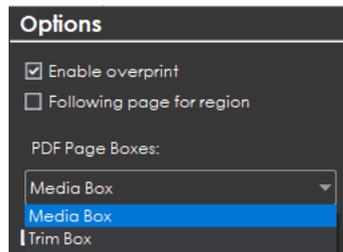
Options Panel

To select an option, click the checkbox beside it or select one of its drop-down options:

- **Enable overprint:** Provides an on-screen simulation that approximates how blending and overprinting appears in color-separated output. The initial default is set to checked, while the user's selection acts as the new default for subsequent inspections.

- **Following page for region:** When a file has multiple pages, you have the option to apply the die line on the next page. This would be used if the die line is on the next page relative to the artwork (as opposed to the same page, as is the case with some files).

- **PDF Page Boxes:** Select the appropriate page box for shape selection:

- **Media Box**: Defaults to Media Box

- **Trim Box**: Defaults to Trim Box (to be used if your file is print-ready)

- **Crop Box**: Defaults to Crop Box

3.6.1.2 Layers
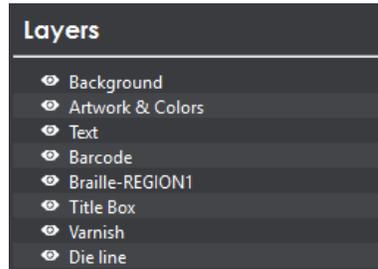
Layers Panel

The **Layers** panel displays a list of the layers present in the PDF file.

To hide a layer:

- Click the eye icon 👁. The icon will be grayed out and the layer will not appear in the image.

To un-hide a hidden layer:

- Click the eye icon 👁. The icon will return to its default color and the layer will re-appear in the image.

3.6.1.3 Separations
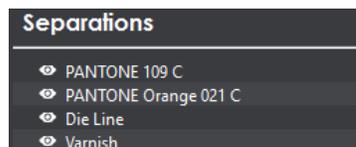
Separations Panel

The **Separations** panel displays the color separations present in the PDF file.

To hide a separation:

- Click the eye icon 👁. The icon will be grayed out and the separation will not appear in the image.

To un-hide a separation:

- Click the eye icon 👁. The icon will return to its default color and the separation will re-appear in the image.

3.6.1.4   Layers and Separations Sub-Menu
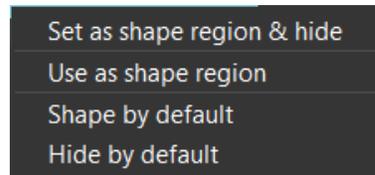
To select a sub-menu option:

- Right-click on a layer or separation to display the sub-menu.

- Click to select an option:

  - **Set as shape region & hide:** The layer or separation will be detected as a shape and be hidden when the image is loaded into the Master/ Sample panel (with the shape outlined).
    NOTE: Only one layer or separation can be used for shape extraction at a time. The selected layer or separation will be underlined in its corresponding panel in the integrated **PDF Viewer**.

  - **Use as shape region:** The layer or separation will be detected as a shape. The image will load into the Master/ Sample panel with the shape outlined. The layer or separation will not be hidden.
    NOTE: Only one layer or separation can be used for shape extraction at once. The selected layer or separation will be underlined in its corresponding panel in the **PDF Viewer**.

  - **Shape by default:** The layer or separation by the same name will be detected as a shape by default. A yellow folder icon will display to the left of the selected layer to indicate it has been added to the **Library**. Right-click to uncheck the Shape by default option.

    NOTE: Shape by default takes effect at the next load, including for the file currently loaded. For the shape to be set, reload the file.

  - **Hide by default:** If you select this option, the selected layer or separation of the same name always stays hidden. The eye icon will be grayed out and a yellow folder icon will display. Right-click to uncheck the option.
    NOTE: Hide by default takes effect at the next load. For the layer or separation to be hidden on the file currently loaded, reload the file.

3.6.1.5   Process
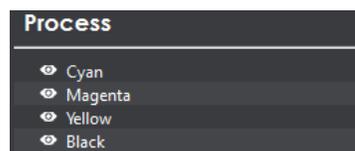
Process Panel

The **Process** panel displays the process colors that are present in the PDF image.

To hide a process color:

- Click the eye icon 👁. The icon will be grayed out and the process color will be hidden in the image.

To un-hide a process color:

- Click the eye icon 👁. The icon will return to its default color and the process color will re-appear in the image.

3.6.2 Alternate Shape Selection

If a file has more than one shape linked to a separation or layer, in the case of repeats for example, you can switch between them to be extracted as follows:

- Right-click the desired shape in the **PDF Viewer** and select to use it as a shape region. See Section 3.6.1.4 Layers and Separations Sub-Menu for more information.
- Once a shape is selected, right-click on an alternate one and click **Select Shape**.
- The alternate shape can then be used for extraction.
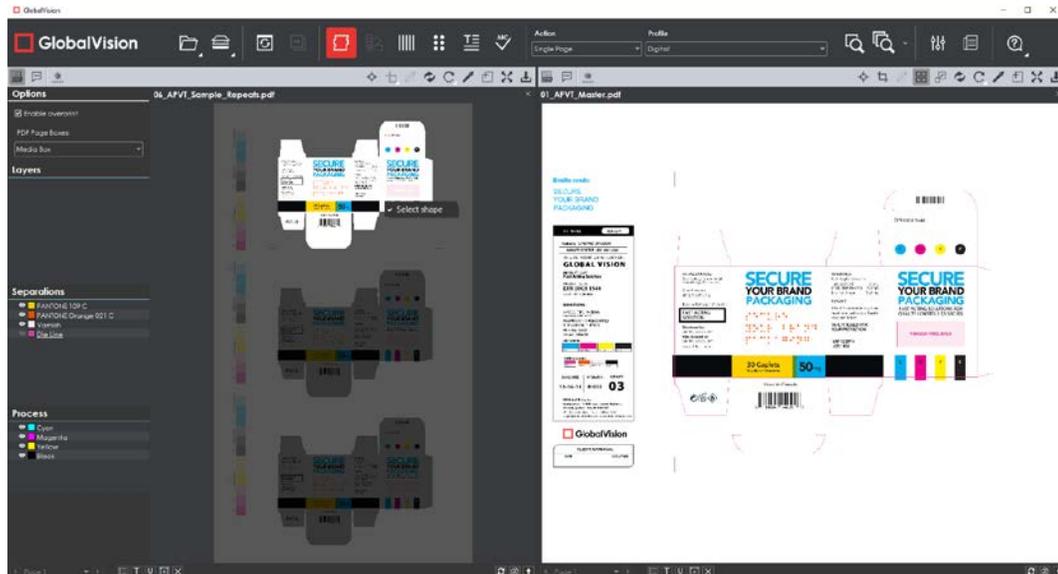
4 Inspection Process

The chapter describes the basic steps involved with running an inspection.

4.1 Inspection View

Once an inspection is run, the Inspection View loads.

NOTE: On a Mac, the **Repeats** panel (in **Graphics Inspection**) displays on the left side of the window.
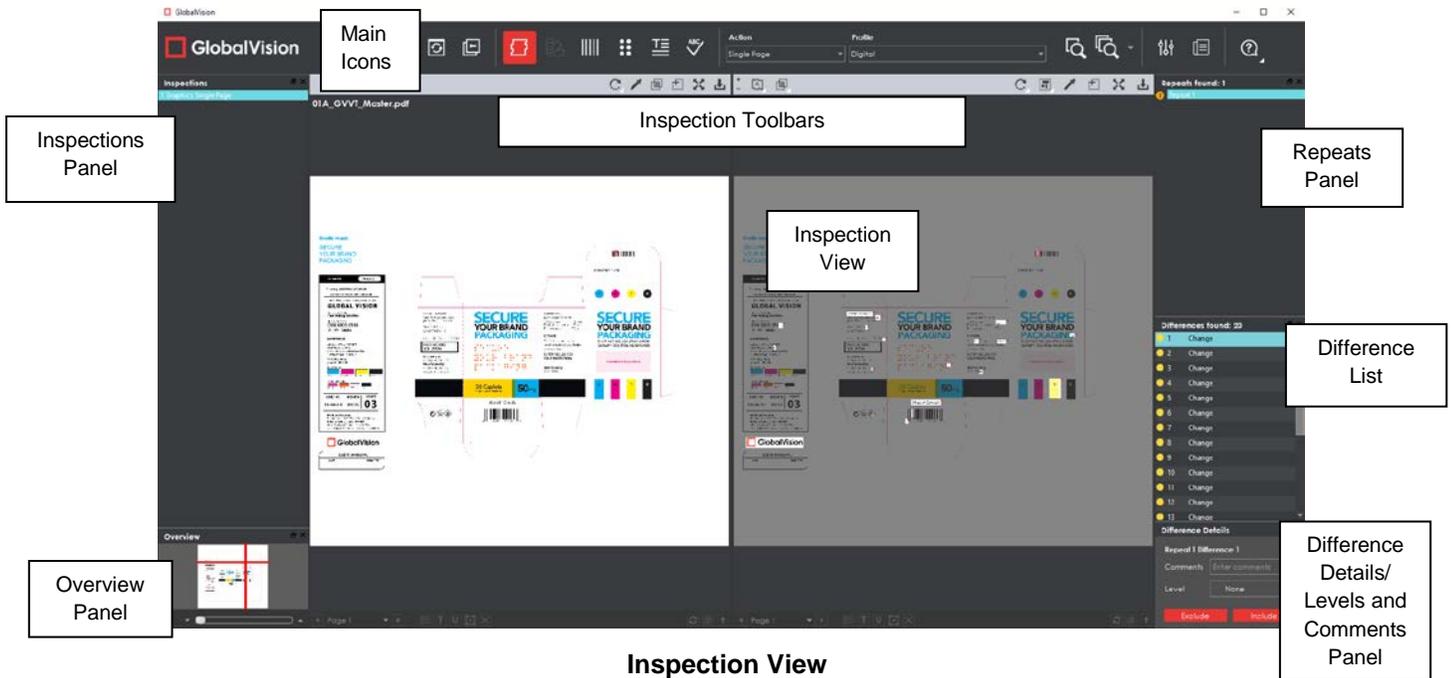
Inspection View

4.2 Performing Inspections

The inspection process lets users review the detected differences when comparing two files, review Braille translations and measurements, review barcode grades and parameters, review detected spelling mistakes, with both single inspection and multi-inspection options available. Furthermore, the color-space information at individual points can be compared between files. The following sections describe the basic steps to follow when running an inspection. For more detailed steps describing each specific inspection process, see Chapter 5 Graphics Inspection, Chapter 6 Barcode Inspection, Chapter 7 Braille Inspection, Chapter 8 Text Inspection, Chapter 9 Spelling Inspection, or Chapter 10 Color Inspection.

4.2.1 Single Inspection

To perform a single inspection:
- Load the Master and/ or Sample files you want to inspect in the Master and/ or Sample panels respectively.
- Make sure the area you would like to inspect is selected before proceeding.
- Select the appropriate mode for the inspection you would like to perform:

- Graphics Inspection
- Color Inspection
- Barcode Inspection
- Braille Inspection
- Text Inspection
- Spelling Inspection

- Select the appropriate action and then profile (if applicable, for a color inspection) from the **Action** and **Profile** drop-down menus respectively.

- Click **Perform Inspection** .

4.2.2 Multiple Inspections

To run multiple inspections in the different inspection modes:
- Load the Master and/ or Sample files you want to inspect in the Master and/ or Sample panels respectively.

- Make sure the region you would like to inspect is selected before proceeding.

- Select the appropriate mode for the inspection you would like to perform:

    - Graphics Inspection
    - Barcode Inspection
    - Braille Inspection
    - Text Inspection
    - Spelling Inspection

    NOTE: **Color Inspection Mode** is not supported by **Perform Multiple Inspections**.

- Select the appropriate action and then profile from the **Action** and **Profile** drop-down menus respectively.

    NOTE: **Braille Compare** and **Braille Compare (Glue Dots)** are not supported by **Perform Multiple Inspections**.

- Repeat the process for all desired inspection modes without re-loading files. The same files will be inspected under each mode.

- Click the **Perform Multiple Inspections** drop-down menu and check off the applicable inspection types.

- Click the **Perform Multiple Inspections** icon itself.
    NOTE: The Application will perform the graphics, barcode, Braille, text, and spelling inspections based on the last action and profile selected in each mode.

4.3 Canceling/ Changing the Inspection

4.3.1 Reset Interface

To clear the Master/ Sample images and inspection results from the Master/ Sample panels:

- Click **Reset Interface** 🔄 .

- The following message will appear, asking if you want to continue:
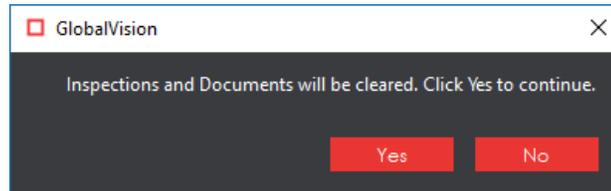
- Click **Yes** to clear the Master/ Sample images and the inspection results (if applicable) from the Master/ Sample panels.

- Click **No** to retain the files in the Main View.

4.3.2 Back/ Forward

To retain inspection results and return to the Main View, so you can run additional inspections:

- Click **Back** 🔲 .

To return to the Inspection View:

- Click the same button, which has become **Inspection View** 🔲 .

4.3.3 Cancel Inspection

To cancel an inspection:

- Click **Cancel Inspection** on the pop-up **Progress** window as the inspection is running.
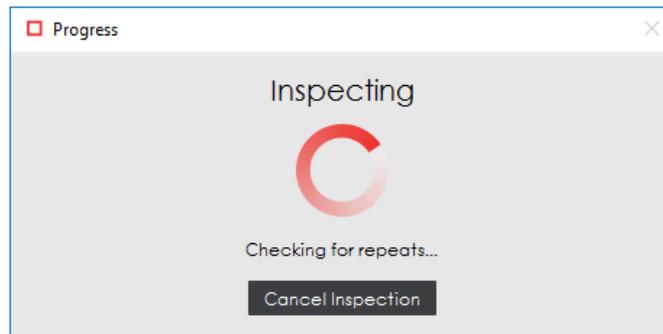
Progress Window

4.4 Reviewing and Proofing

4.4.1 Navigating Differences

- Use the track wheel or Master/ Sample **Marquee Zoom** ⊞ in the Inspection View to zoom in or out of the image.

- Hold the left mouse button and move it around to pan the image.

- To review multiple pages, navigate through them at the bottom left of the Inspection View.

Page Navigation

- Select a specific difference (where applicable) and highlight it in the Inspection View by clicking its corresponding number in the **Difference List** in your layout. The difference will be highlighted in the Inspection View.

  NOTE: Ensure **Automatically zoom to each difference** is checked in the **Preferences** window (under the **File Menu**) to zoom in to individual differences once you select them as well.

- Review differences in repeats (where applicable) by clicking the corresponding repeat in the **Repeats** panel in your layout. That repeat's individual differences will be loaded in the **Difference List**.

- For more information on your layout and the different panels applicable to the inspection being run, see the "Layouts" sub-section in the corresponding, subsequent chapter.

4.4.2 Reviewing Differences

- Select a difference (where applicable) by clicking it in the **Difference List** in your layout to assign levels (i.e., **Critical**, **Major**, **Minor**) and comments to it. For more information on assigning levels and comments to differences, see the corresponding section on the **Difference List** and **Difference Details** panel in the **Graphics Inspection**, **Text Inspection**, **Spelling Inspection**, or **Color Inspection** chapter.

- Navigate to the next difference by pressing the DOWN ARROW ↓ key, pressing the F11 key, or by clicking **Include (F11)** in the **Difference Details** panel. Pressing the F12 key or clicking **Exclude (F12)** will also navigate to the next difference but exclude the initial one from the report.

- Navigate to the previous difference by pressing the UP ARROW ↑ key or clicking it.

4.5 Generating Reports

The following section describe the steps involved with generating a report, which is the culmination of the inspection process.

NOTE: Multiple inspections can be combined into one report. Whatever inspections have been run and haven't been specifically excluded will appear in the generated PDF.

To generate a report:

- Click **Generate Report** ▤ . The **Report Options w**indow will display.

Report Options Window

- Fill in the **Report Options** window where applicable.

    NOTE: The **Inspected By** field is pre-populated with the user name by the system and no modifications are allowed. All the other fields, except for **Status**, which must be modified from the **Select Status** default are optional.

REPORT OPTIONS	ACTION
Product ID	Enter the Product ID
Product Name	Enter the Product Name
Inspected By	No action required; The field is automatically populated with the name of the user who performed the inspection
Status	Select Pass/ Fail (required)
Lot	Enter the Lot Number
Levels to include	Only differences with levels matching selected levels will be included in report; Will not appear if "Force inclusion of all differences" has been selected by an administrator
Only pages/ repeats with differences	Check the box to include only the pages or the repeats that have at least one difference
Master	Check the box to include the Master image in the report (where applicable)
Signature field	Check the box to include the signature field (Performed By, Reviewed By fields) in the report; Automatically included when the licensed option to Enable Electronic Signatures in the Settings window has been selected by an administrator

REPORT OPTIONS	ACTION
Thumbnails	Check the box to include thumbnails of each difference (Graphics, Text, and Spelling Inspection only)
Report Path	Select where the report will be saved
Report File Name	Set the name of the report to be saved
Comments	Enter general comments to be included in the report

- Click V**iew** or **Save.** If a status has not been selected, the following message will display:
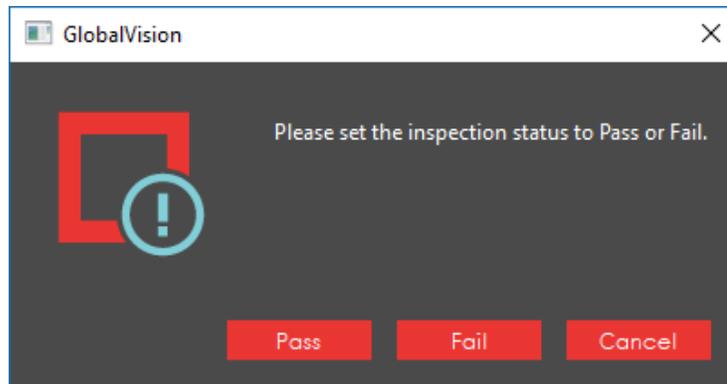
- Click **Pass** or **Fail** to set the inspection status. Click **Cancel** to return to the **Report Options** window.

- If the licensed option to **Enable Electronic Signatures** has been checked by your administrator in the **Settings** window (via the **File Menu**), the **Electronic Signature** window will display.

Electronic Signature Window

- Fill in the **User Name** and **Password** fields (as you would to log in) and click **Sign**. Click **Cancel** to return to the **Report Options** window. The report will include the signature fields.

- If **Save** had been selected in the **Report Options** window, the report will be saved in the selected (or default) report path.

- If V**iew** had been selected, the report will save in the selected (or default) report path and display in the **Report Viewer**. All inspections will be included in the report (if applicable).
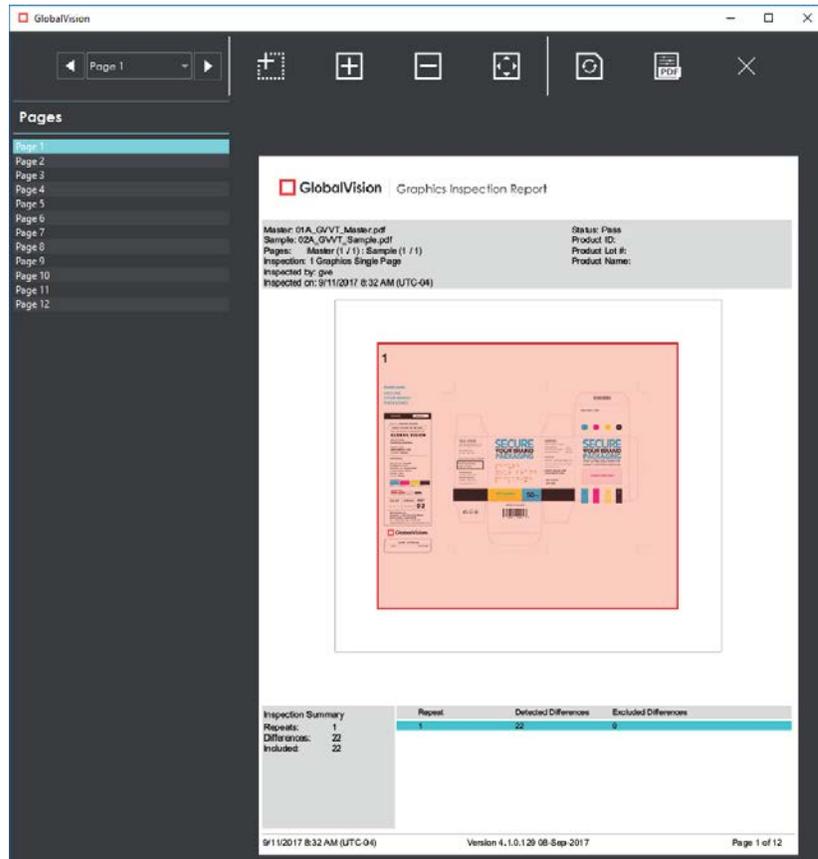
Report Viewer

- To display a different page in the native **Report Viewer**, either click the desired selection in the **Pages** panel on the left or click the left or right arrows on either side of the **Page Navigation** ◀ Page 1 ▼ ▶ icon. You can alternatively click on the arrow in the middle of the icon to access the **Page Navigation** drop-down menu and go directly to the page of your choice.
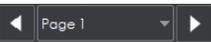
- To zoom in, click the **Rectangular zoom** icon on the **Report Viewer** toolbar and then click and drag in the report itself to select a specific area. Alternatively, simply click the **Zoom in** icon to magnify the report. The **Zoom out** icon zooms out instead.

- To restore the report to its original size, click the **Fit document in window** icon.

- To reload the report in the window, click the **Reload** icon.

- The **PDF** icon loads the report in the system's default PDF reader application.

- Clicking the "X" on the top-right corner of the **Report Viewer** or the "X" icon on the toolbar both close the window and return you to the Application.

5   Graphics Inspection

Graphics Inspection Mode lets you compare single or multi-page master and sample files pixel by pixel and detect differences in text and artwork. Differences are highlighted and levels and comments on each can be added for more of an in-depth proofing and reviewing process. The following sections describe the basic inspection process.

5.1 Step-by-Step

This section describes the steps to follow when running a graphics inspection.

1.   **Load Electronic Files (Skip to No. 2 to Load Scanned Files)**

      A.   **For Single-Page Inspections:**

*   Click **File Menu** 📁 → **Load Master** or double-click in the Master panel to launch the load-file window. You can also load a file by using "drag and drop."

*   Select the Master file from the load-file window and click **Open.**

*   If the Master is a BMP, PNG, TIF, TIFF, JPG, or LEN file, the image will load in the Master panel.

*   If the Master is a PDF or AI file:

      –   Prepare the Master image, if required, using integrated **PDF Viewer** tools to hide layers and/ or separations, use shapes as regions for repeat detection, etc. See Section 3.6 PDF Viewer for more details.

*   Click **File Menu** 📁 → **Load Sample** or double-click in the Sample panel to start repeating the process to load the Sample file.

      B.   **For Multi-Page Inspections:**

*   Click **File Menu** 📁 → **Load Master** or double-click in the Master panel to launch the load-file window. You can also load a file by using "drag and drop."

*   Select the Master file from the load-file window and click **Open.**

*   The first page of the Master image will load in the Master panel. The others can be selected from the **Page Navigation** drop-down menu at the bottom of the panel.

*   If the Master is a PDF or AI file:

      –   Prepare the Master image, if required, using **PDF Viewer** tools to hide die lines, layers and/ or separations, use shapes as regions for repeat detection, etc. See Section 3.6 PDF Viewer for more details.

*   Click **File Menu** 📁 → **Load Sample** or double-click in the Sample panel to start repeating the process to load the Sample file.

2.   **Load Scanned Files (Skip Over if Electronic Files Loaded)**

*   Click **Scanner Menu** 🖨 → **Select Source.**
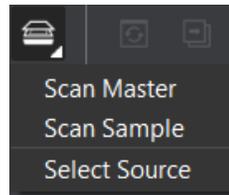
- Select the applicable scanner from the **Scanner Selection** window and click **Select.**
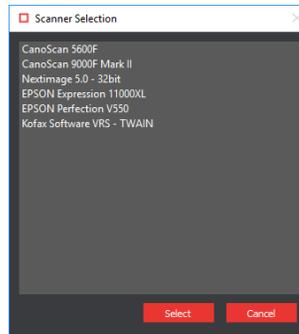
Scanner Selection Window

- Click **Scanner Menu** → **Scan Master** to scan the Master document. Once scanned, the image will load in the Master panel.

- Click **Scanner Menu** → **Scan Sample** to scan the Sample document. Once scanned, the image will load in the Sample panel.

3. **Ensure the Proper Inspection Area Is Selected**

- Use Master/ Sample tools to crop, rotate the image, etc. Make sure the appropriate **Region Mode** is selected. See <u>Section 3.3.6 Region Mode</u> for more information.

4. **Select the Graphics Inspection Mode Icon**

5. **Select an Action**
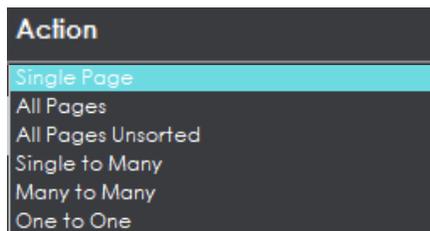
Action Drop-Down Menu

To compare a single master page to a single sample page or press sheet:

- Set **Action** → **Single Page**.

To compare all master pages or files to all sample pages or files:

- Set **Action → All Pages**.
  NOTE: The pages must be in order to allow for comparison. Repeats per page are not supported.

To compare all master pages or files to all sample pages or files when they are in a different order:

- Set **Action → All Pages Unsorted**.
  NOTE: Repeats per page are not supported.

To compare a single-page master file to a multi-page sample file with repeats:

- Set **Action → Single to Many**.
  NOTE: This is useful for comparing a batch of press sheets against the Master or checking the number of instances the Master appears on the Sample side.

To compare unsorted multi-page master files to unsorted multi-page sample files with repeats:

- Set **Action → Many to Many**.
  NOTE: This is useful for comparing batches and for ganged sheets. This action requires the most memory.

To compare two individual full pages/ press sheets against one another without looking for repeats to speed up the inspection process:

- Set **Action → One to One**.

6. **Select Profile**

- Click **Profile**.

- Select the profile that best suits your inspection needs to detect the required differences from the drop-down menu. Alternative profiles may be created. See the Administration Guide for more details.
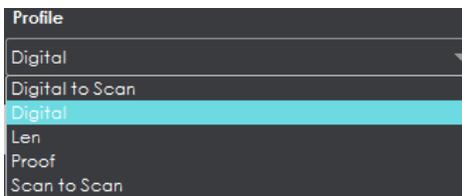
Graphics Inspection Profiles

The following default profiles are installed with the system:

PROFILE	FILE TYPES (MASTER AND SAMPLE)
Digital to Scan	Electronic original artwork and a scanned image
Digital	Electronic original artwork and a revised copy
Len	Run Length Encoding bitmap file and a Run Length Encoding bitmap file
Proof	Electronic original artwork and a digital proof
Scan to Scan	Scanned image and a scanned image

7. Run the Inspection

- Click **Perform Inspection** . The images will be inspected and the differences displayed in the Inspection View Sample panel.
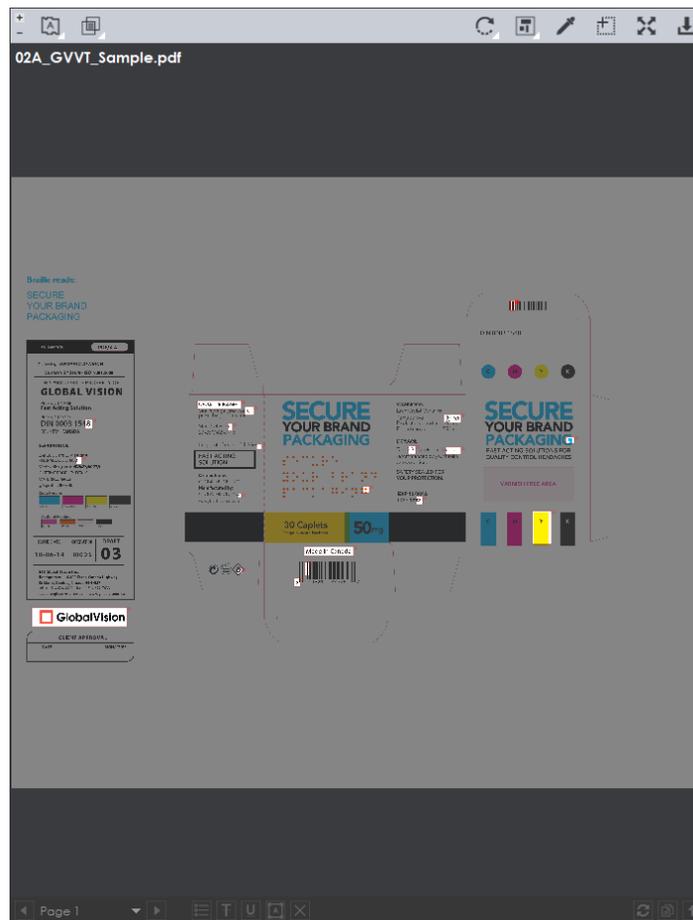
Inspection View Sample Panel

- When inspecting repeats, the **Repeats** panel will display "Repeats found: (#)" and list them. Repeats with differences will be highlighted in red. Repeats without differences will be highlighted in green.
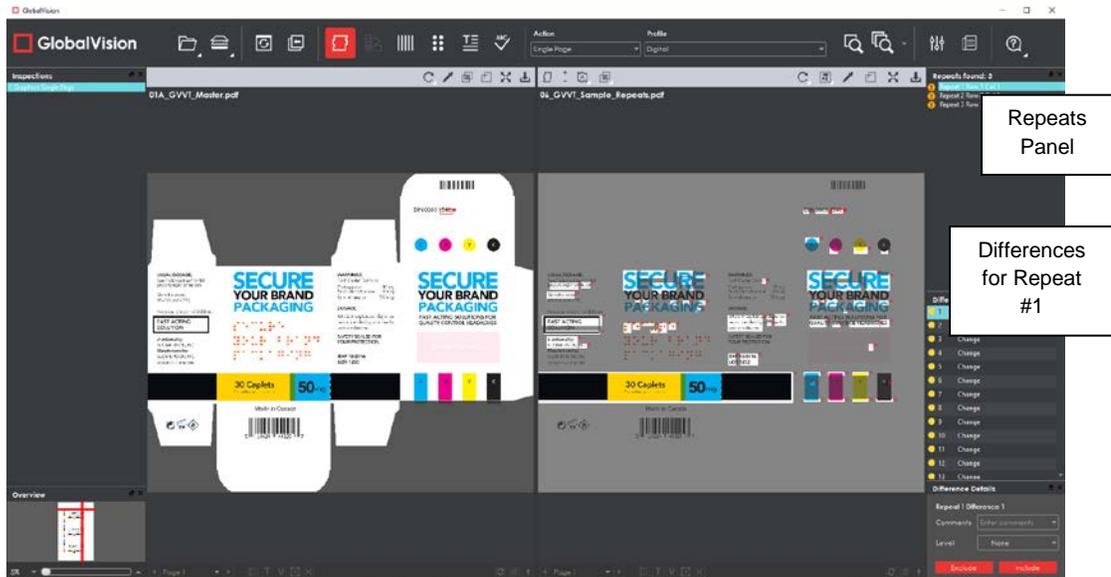
Repeat #2 Selected in Repeats Panel

8. View the Results

To view the inspected image or file:

- Use the track wheel to zoom in or out of the Master or Sample panels.

- Hold the left mouse button and move it around to pan the image.

- To review multiple pages, navigate through them using the **Page Navigation** drop-down menu at the bottom left of either panel.

Page Navigation

To view a repeat:

- Click the desired repeat in the **Repeats** panel in your layout. For more information on layouts and the different panels available, see Section 5.4 Layouts.

There are several ways to view differences.

- Click the **Image to display** drop-down menu.
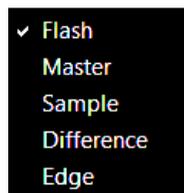
- Click **Flash** to alternately display the differences between the Master and Sample images. To change the rate at which the images alternate**:**

  - Click **Increase Flash Rate** ➕ to increase the rate.

  - Click **Decrease Flash Rate** ➖ to decrease the rate.

- Click **Master** to display the Master image.

- Click **Sample** to display the Sample image.

- Click **Difference** to display the **Difference** image.

- Click **Edge** to display the **Edge Difference** image.

9. Review and Proof the Differences

To select a difference:

- Click on the difference in the **Difference List**. It will be highlighted in the Inspection View and outlined in red in the **Overview** panel. A check mark will be added in the **Difference List** to indicate it has been reviewed.
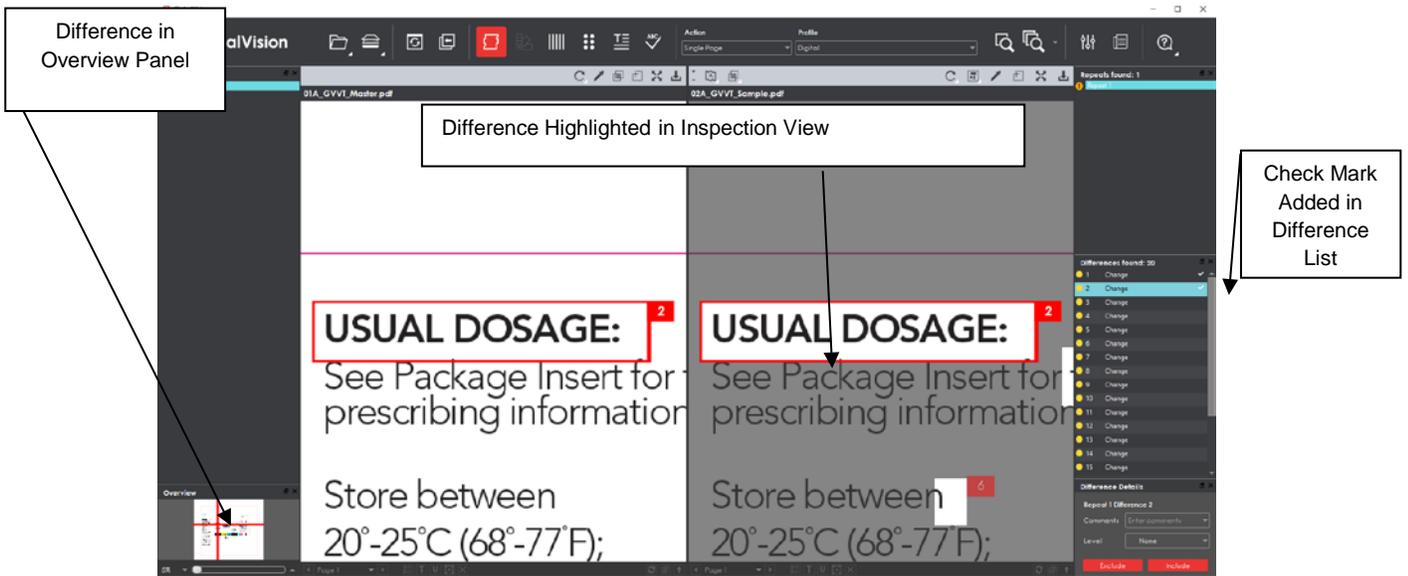
Difference #2 Selected

There are two ways to assign a level to a difference:

- Select the difference in the **Difference List**. Click the **Level** drop-down box in the **Difference Details** panel and select the level. The color-coded level will display to the right of the difference in the Difference List.
  NOTE: Hot keys (F1 – F5) may be applied to assign levels. Select the difference and click the appropriate "F" key (see below):

KEY	FUNCTION
F1	Reporting level - Critical
F2	Reporting level - Major
F3	Reporting level - Minor
F4	Reporting level - Ignore
F5	Reporting level – None
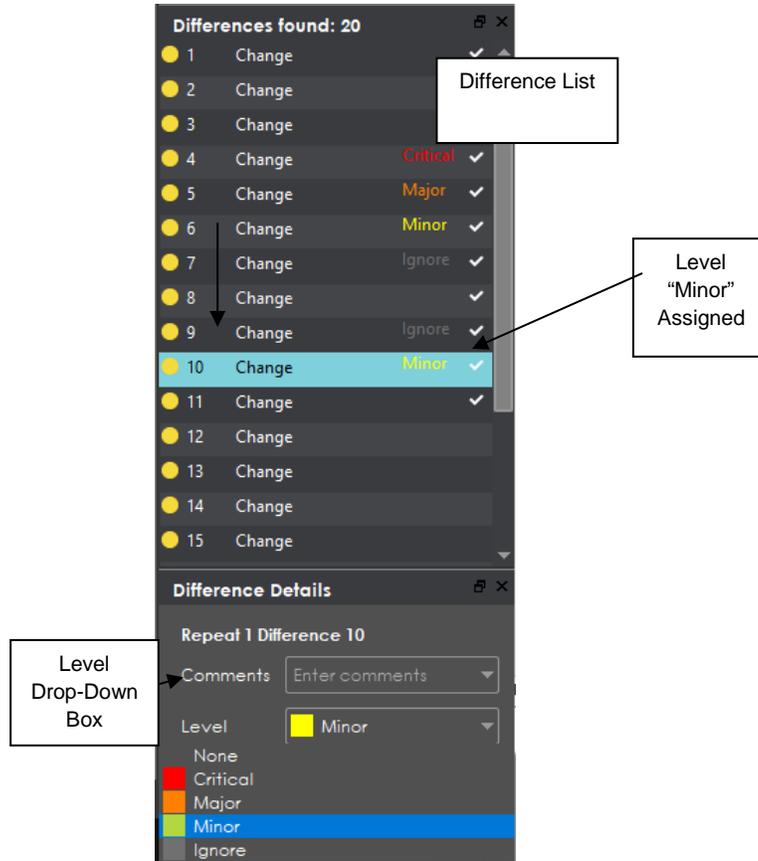
Level Assigned Using Difference Details Panel

- Alternatively, double-click the difference in the Inspection View. The **Difference** window will display. Click the **Level** drop-down box in the Difference window and select the level. Click **X** to close the Difference window. The color-coded level will display to the right of the difference in the **Difference List**.
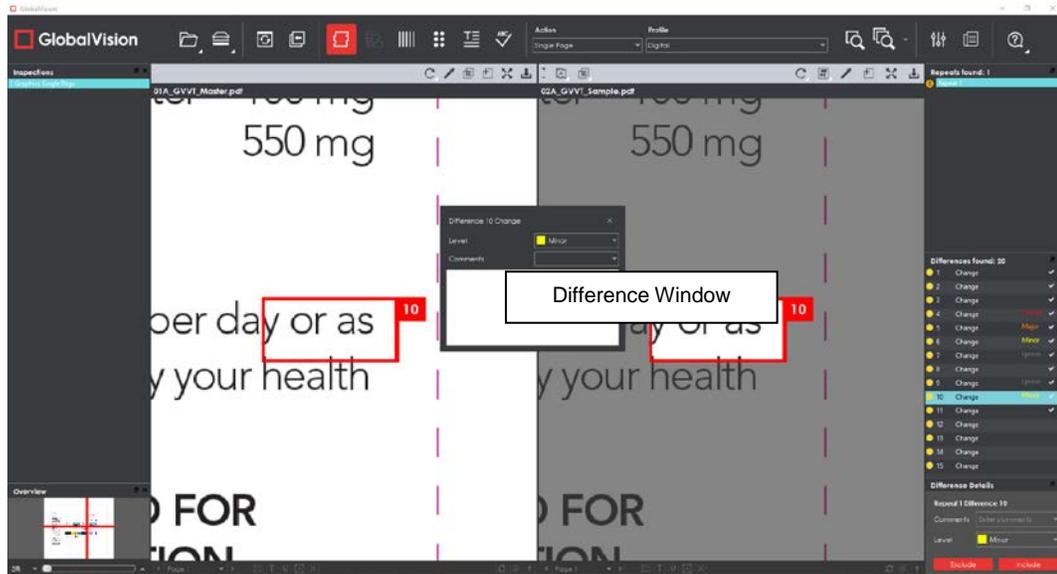
Level Assigned Using Difference Window

To assign a level to multiple differences:

- Hold down the CTRL key while selecting the differences, click the **Level** drop-down box, and select the level.
  NOTE: On a Mac operating system, to assign a level to multiple differences, hold down the COMMAND and SHIFT keys while selecting the differences, click the Level drop-down box, and select the level.

To remove a level assignment:

- Click the **Level** drop-down box and select **None**. The level will no longer display in the **Difference List**.

There are two ways to assign a comment to a difference:

- Select the difference in the **Difference List**. Click the **Comments** drop-down box in the **Difference Details** panel and select the comment. The comment will display in the **Comments** text box. A sticky-note icon will display in the Difference List to the right of the difference.
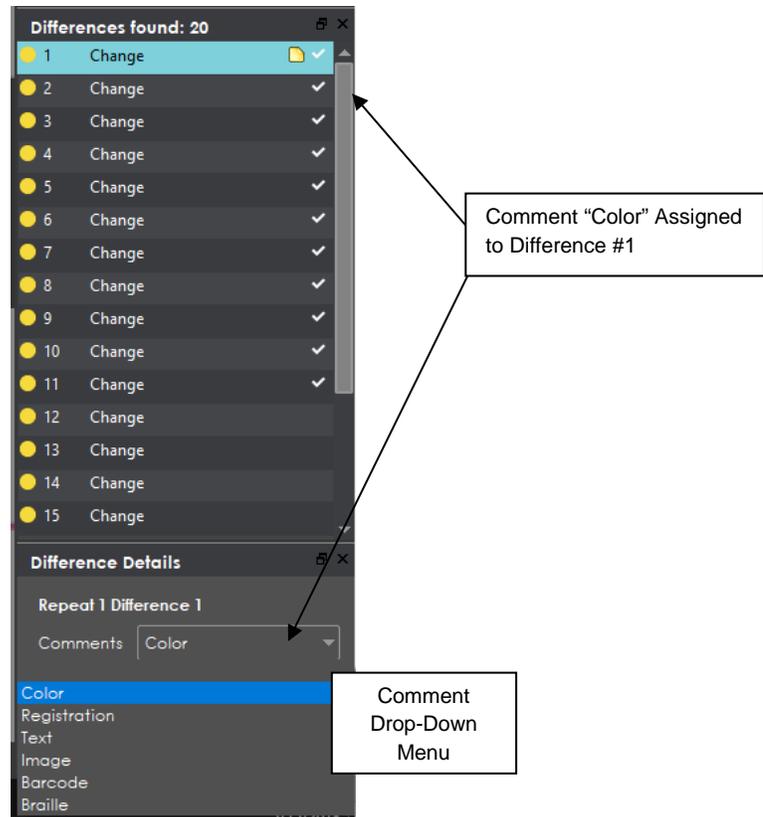
Pre-Defined Comment Assigned to Difference #2

- Alternatively, double-click the difference in the Inspection View. The **Difference** window will display. Click the **Comments** drop-down box in the Difference window and select the comment. Click **X** to close the window. The comment will display in the **Comments** text box. A sticky-note icon will display in the **Difference List** to the right of the difference.

To assign a comment to multiple differences:

- Hold down the CTRL key while selecting the differences, click the **Comments** drop-down box, and select the comment.
  NOTE: On a Mac operating system, to assign a comment to multiple differences, hold down the COMMAND and SHIFT keys while selecting the differences, click the **Comment** drop-down box, and select the comment.

There are two ways to assign a customized comment to a difference:

- Select the difference in the **Difference List**, click the **Comments** drop-down menu in the **Difference Details** panel, and type in the comment. A sticky-note icon will display in the Difference List to the right of the difference.

- Alternatively, double-click the difference in the Inspection View. The **Difference** window will display. Click in the **Comments** text box in the Difference window and type in the comment. Click **X** to close the Difference window. The comment will display in the Comments text box. A sticky-note icon will display in the **Difference List** to the right of the difference.

To delete a comment from a difference:

- Click in the **Comment** drop-down box in the **Difference Details** panel and select the blank entry.

To include the selected difference in the report:

- Press **F11** or

- Click **Include** in the **Difference Details** panel

To exclude the selected difference in the report:

- See Section 5.3.6.3 Exclude Differences.

To add a difference:

- See Section 5.3.6.2 Add Differences.

To group differences:

- See Section 5.3.6.1 Group Differences.

10. Include Inspections in Report

The Application lets you rename inspections and/ or exclude them from the report. This option is available under the **Inspections** panel.

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel.

Inspections Panel

- Click **Rename**.

- Enter the desired name and click **OK**.

- The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The inspection will not be included in the next generated report.

    NOTE: For more information on layouts and the panels available to you, see Section 5.4 Layouts.

11. Generate the Report

- Click the **Generate Report** icon.

- See Section 4.5 Generating Reports for step-by-step instructions.

12. Retain Inspection Results and Run a New Inspection

- Click **Back** . The Main View will display with the Master and Sample images loaded.
- To load new files, follow the steps above.
- If required, prepare the Master/ Sample images for inspection using Master/ Sample tools to crop, rotate the image, etc. Make sure the appropriate region is selected. See Section 3.3.6 Region Mode.
- Click **Perform Inspection** . The images will be inspected, and the differences will display in the Inspection View Sample panel. Each subsequent retained inspection will be listed in the **Inspections** panel.

13. Clear Inspection Results and Run a New Inspection

- Click **Reset Interface** . The following message will display:
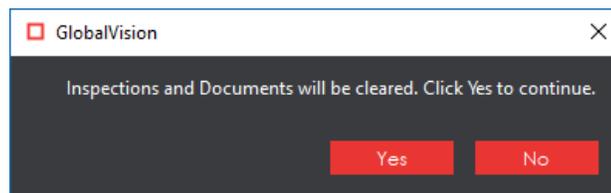
- Click **Yes** to clear inspection results and documents. The Main View will display with the profile on the title bar.

5.2 Master Toolbar

The Master toolbar appears at the top of the Master panel following an inspection:

Master Graphics Inspection Toolbar

5.2.1 Rotate

To rotate the Master image:

- Click **Rotate** .
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

5.2.2 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the Master image:

- Click the **Color Picker** .
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
  NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see .
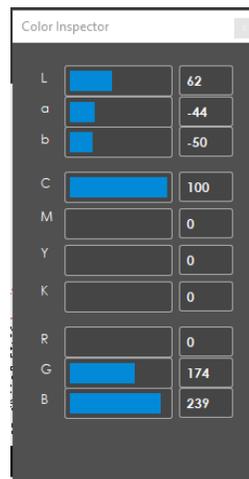
Color Inspector Window

5.2.3 Show the Text Mask

To see what was detected as text during the inspection:

- Click **Show the text mask** .

    NOTE: The masked content represents all that which is affected by the parameters under the selected inspection profile's **Text** tab. See [Appendix 12.1 Profiles](#) for a list of all applicable settings.

Show the Text Mask

5.2.4 Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area using the crosshairs that appear and left button of your mouse or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Master panel.

- Scroll downward with the track wheel.

To pan:

- Left-click in the Master panel. Hold and move the mouse around the panel.

5.2.5 Reset View

To restore the image to its original size:

- Click **Reset View** .

5.2.6 Save View

To save an image to a file:

- Click **Save View** ![icon] on the toolbar. The **Save As** window will display with the file type .tif as the default.

- Select the desired file type and storage location and click **Save**.

5.3 Sample Toolbar

The Sample toolbar appears at the top of the Sample panel following an inspection:
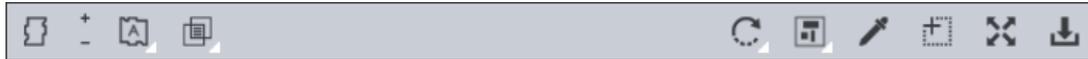
Sample Graphics Inspection Toolbar

5.3.1 Set Repeat as Master

Set Repeat as Master ![icon] appears only if repeats are detected in the Sample file(s). This option is used to select one of the repeats as the Master (**Golden Master**) and compare it against the others in the Sample.

To set a repeat as the Master:

- Click the repeat in the **Repeats** panel. For more information on the different panels available to you in your layout, see Section 5.4 Layouts.

- Click **Set Repeat as Master** ![icon]. The **Profile Selection** window will display.
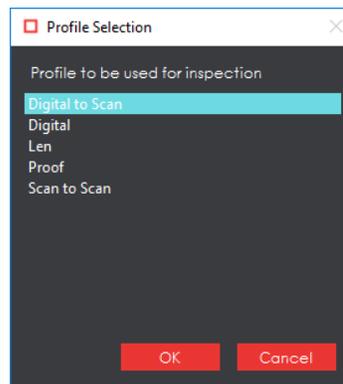
Profile Selection Window

- Select the required profile from the **Profile Selection** window and click **OK**. A new inspection will run and compare the loaded Sample image to the selected repeat as the new Master (**Golden Master**).

5.3.2 Increase Flash Rate

To change the rate at which the differences between the Master and Sample images alternate**:**

- Click **Increase Flash Rate** ➕ to increase the rate.
- Click **Decrease Flash Rate** ➖ to decrease the rate.

5.3.3 Image to Display

The **Image to Display** [▧] drop-down menu lets the user toggle between different images in the Inspection View Sample panel.
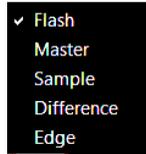
Image to Display Drop-Down Menu

5.3.3.1 Show Master Image

To display only the Master image in the Inspection View Sample panel:

- Click the **Image to Display** [▧] icon.
- Select **Master** from the drop-down menu.
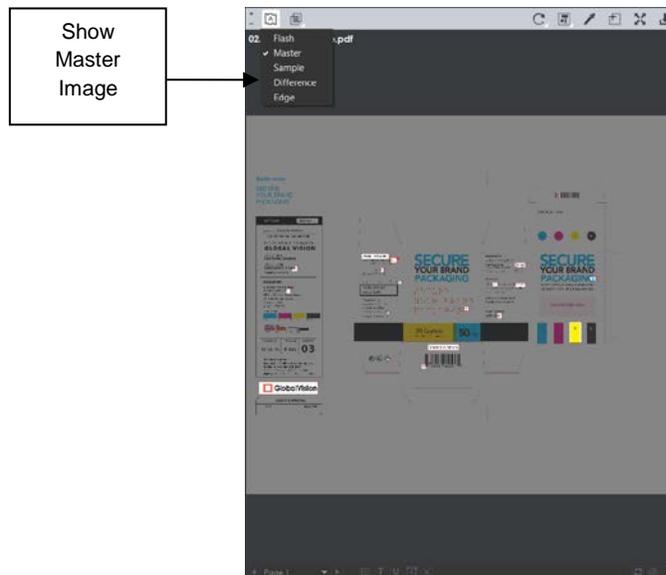
Show Master Image

5.3.3.2 Show Sample Image

To display only the Sample image in the Inspection View Sample panel:

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- Click the **Image to Display** icon.

- Select **Sample** from the drop-down menu.
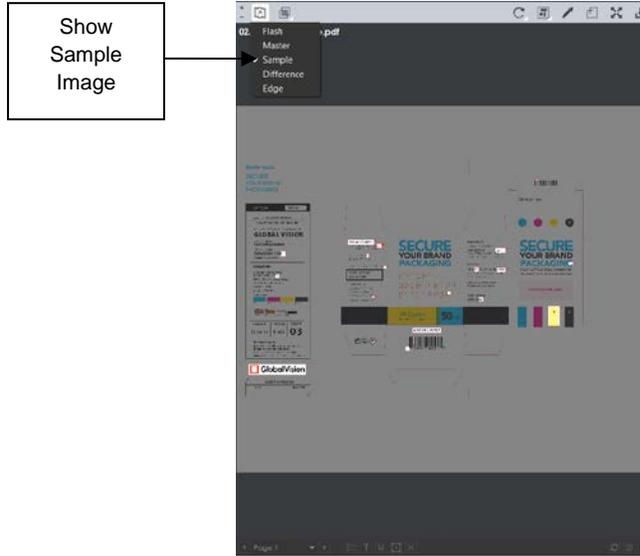
Show Sample Image

5.3.3.3   Show Difference Image

To display only the differences in the Inspection View Sample panel:

- Click the **Image to Display** icon.

- Select **Difference** from the drop-down menu.
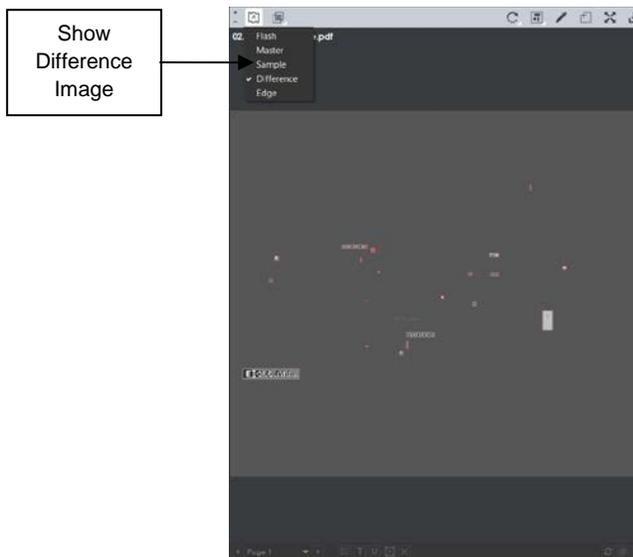
Show Difference Image

To display the difference image in a higher contrast (i.e., each difference will display in yellow against a blue background), surrounded by a red box:

- Click **File Menu** → **Preferences** to open the **Preferences** window.

- Click the **Hi-Contrast Difference Image** checkbox under **User Interface**.

- Click **OK** to close the **Preferences** window.

  NOTE: You need to re-run the inspection for the **High-Contrast Difference Image** change to take effect.
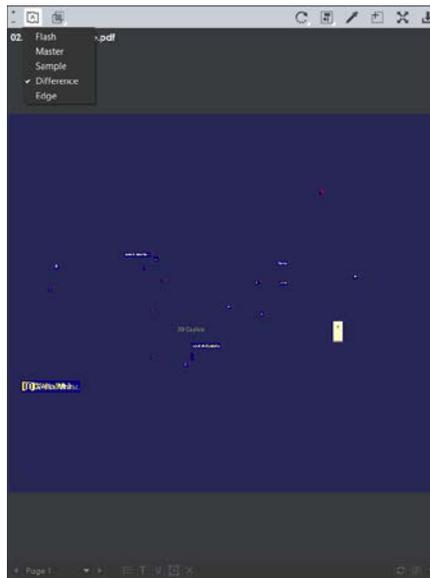
High-Contrast Difference Image

Difference #3 – with High Contrast

Difference #3 – Without High Contrast

5.3.3.4   Show Edge Image

To display only the edge differences in the Inspection View:

- Click the **Image to Display** [icon] icon.

- Select **Edge** from the drop-down menu. Each difference will display against a gray background, surrounded by a red box.
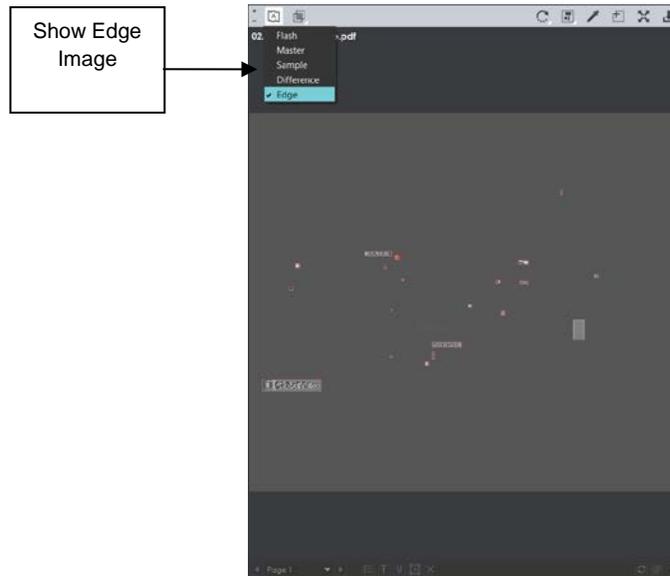
Show Edge Image

5.3.4   Show Mask

The **Show Mask** [icon] drop-down menu lets the user toggle the mask and difference IDs (numbers and/ or boxes) on or off.
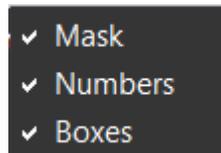
Show Mask Drop-Down Menu

5.3.4.1   Show Mask

Show Mask toggles the mask on or off to isolate the differences or to show the differences in context of the whole image.
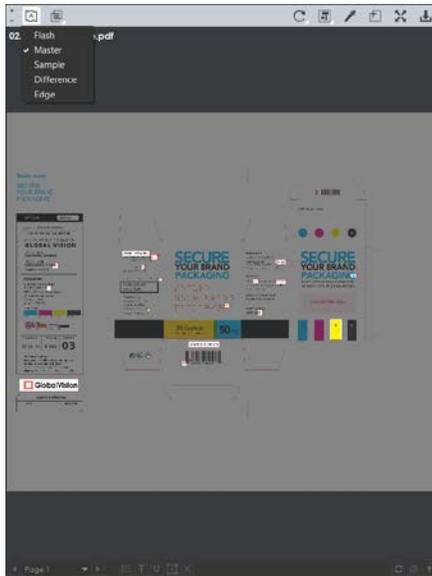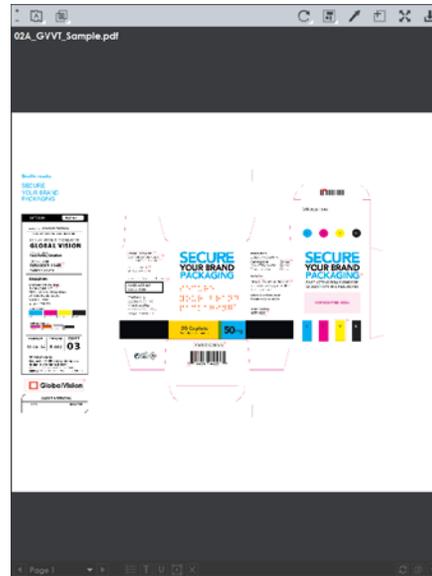
Show Mask On   **Show Mask Off**

To toggle the mask on or off:

- Click the **Show Mask** ▣ icon.

- Select **Mask** from the drop-down menu.

To change the mask color:

- Click **File Menu** 🗀 → **Preferences**. The **Preferences** window will display.

- Click **Select** beside **Mask Color**. The **Mask Color** window will display.
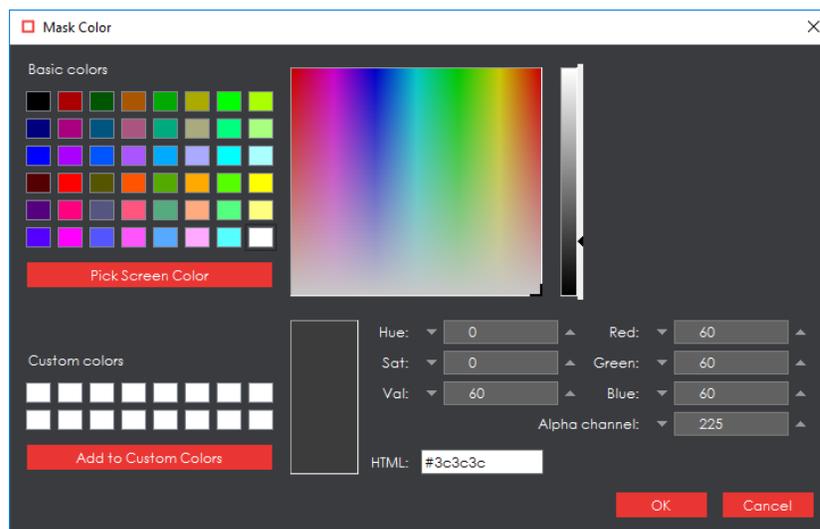
Mask Color Window

- Select the desired color and click **OK** to close the **Mask Color** window.

- Click **OK** to close the **Preferences** window.
  NOTE: You need to return to re-run the inspection for the new mask color to take effect.

5.3.4.2   Show Boxes

Boxes is found under the **Show Mask** icon and lets the user toggle between displaying/ not displaying boxes around the differences.

| **Show Boxes On** | **Show Boxes Off** |

To toggle the difference boxes on and off:

- Click the **Show Mask** icon.

- Select **Boxes** from the drop-down menu.

5.3.4.3   Show Numbers

Numbers is found under the **Show Mask** icon and lets the user toggle between displaying/ not displaying difference IDs next to the differences.

| **Show Numbers On (w/ Show Boxes Off)** | **Show Numbers Off** |
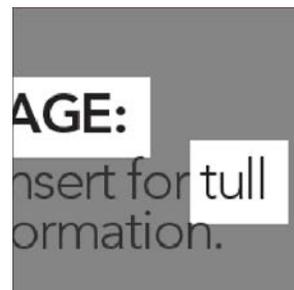
To toggle the difference numbers on and off:

- Click the **Show Mask** icon.

- Select **Numbers** from the drop-down menu.

5.3.5 Rotate

To rotate the Sample image:

- Click **Rotate** [icon].
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

5.3.6 Difference Review Actions

The **Difference Review Actions** [icon] drop-down menu lets the user manage the differences detected, by grouping/ excluding them or adding new ones.

5.3.6.1 Group Differences

- Click the **Difference Review Actions** [icon] icon and then **Group**.

- Use the crosshairs that appear to select the differences to be grouped by left-clicking and drawing a red box around them. A difference ID will be assigned to the group, which will be added to the **Difference List** as a change. The difference count will also adjust accordingly.

  NOTE: The new difference will automatically be included in the report. To exclude it, click **Exclude.**

- For repeats, once you select to group the differences, the following message will display: "Apply to all repeats?" Click **Yes** to add the grouping to all repeats. Click **No** to add the grouping to the selected repeat only.

Differences #2 and #3 Before Grouping   **After Grouping - Difference #19 Created**
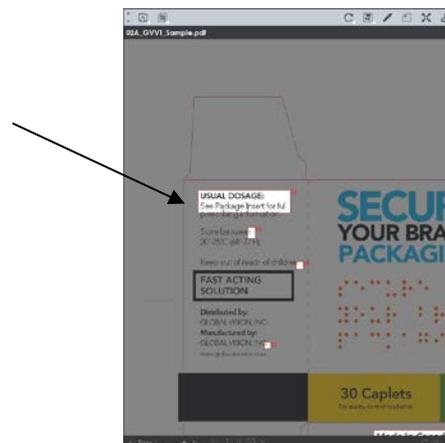
5.3.6.2 Add Differences

To add a difference to the inspection results:

- Click the **Difference Review Actions** ⊞ icon and then **Add**.

- Use the crosshairs that appear to select the area in the Inspection View to be added as difference by left-clicking and drawing a red box around it. The selected area will be added as the final difference in the **Difference List**.

    NOTE: The added difference will automatically be included in the report. To exclude it, click **Exclude**.

- For repeats, once you select the area to be added as a difference, a message will display: "Apply to all repeats?" Click **Yes** to add the difference to all repeats. Click **No** to add the difference to the selected repeat only.
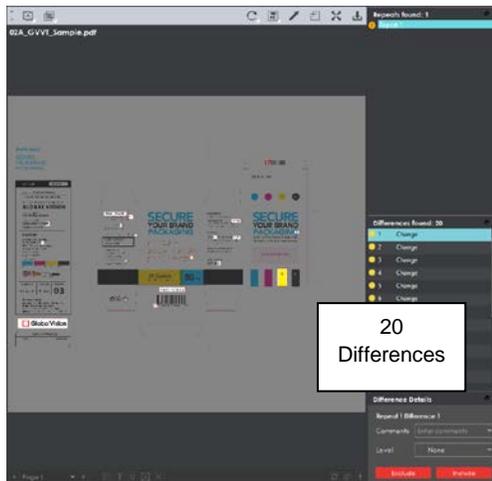
Before Add Difference
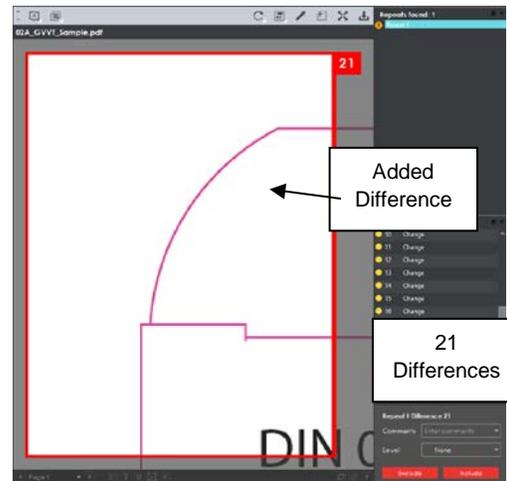
After Add Difference

5.3.6.3   Exclude Differences

To exclude a reviewed and included difference:

- Click the **Difference Review Actions** ⊞ icon and then **Exclude**.

- Use the crosshairs that appear to select the difference in the Inspection View Sample panel to be excluded by left-clicking and drawing a red box around it. The difference will be crossed out in the **Difference List** and excluded in the report.

    NOTE: You can alternatively select the difference in the **Difference List** and click **Exclude**. However, an administrator can configure the Application to force the inclusion of all differences, in which case the **Exclude** and **Include** options will not display in the **Difference Details** panel.

- For repeats, once you select the difference to be excluded as a difference, a message will display: "Apply to all repeats?" Click **Yes** to exclude the difference in all repeats. Click **No** to exclude the difference on the selected repeat only.
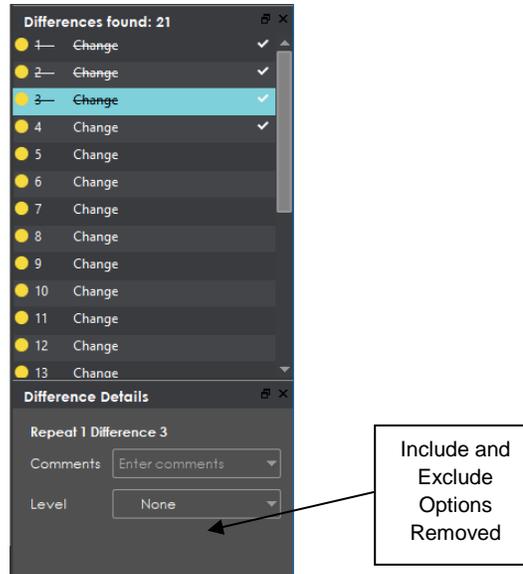
**Difference Details Panel -
Include and Exclude Options Removed**

5.3.7 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the Sample image:

- Click the **Color Picker** .
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
  NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.
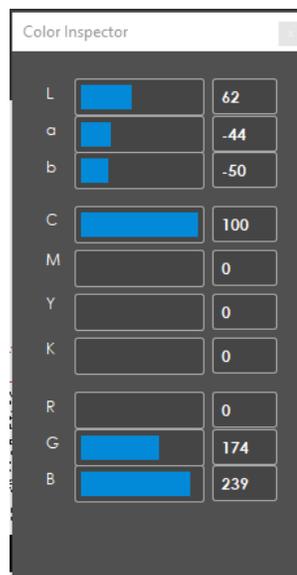
Color Inspector Window

5.3.8 Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area using the crosshairs that appear and the left button of your mouse or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Sample panel.

- Scroll downward with the track wheel.

To pan:

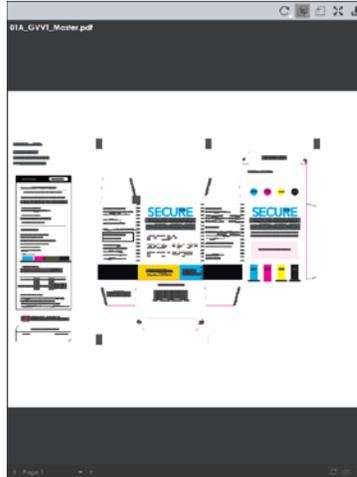- Left-click in the Sample panel. Hold and move the mouse around the panel.

5.3.9 Reset View

To restore the image to its original size:

- Click **Reset View** .

5.3.10 Save View

To save an image to a file:

- Click the **Image to Display** icon in the Sample toolbar and then choose to display either the **Master**, **Sample**, **Difference**, or **Edge** image. To save the view in the Master panel skip this step.

- Click **Save View** in either the Master or Sample toolbar. The **Save As** window will display with the file type .tif as the default.

- Select the desired file type and storage location and click **Save**.

  NOTE: The **Flash Image** cannot be saved.

5.4 Layouts

5.4.1 Creating a Layout

The Inspection View contains panels that let you review the inspection results and add levels and comments to differences. These panels constitute your layout and can be displayed or hidden as required. For example, if your images do not have repeats, you may want to hide the **Repeats** panel. Layout customization is ideal for multi-monitor configurations, as panels can be placed on separate displays. To view the different layout panels that can be loaded, click **File Menu** → **Layout**.

NOTE: The **Barcodes** and **Braille** panels can only be selected if the applicable licenses were purchased.
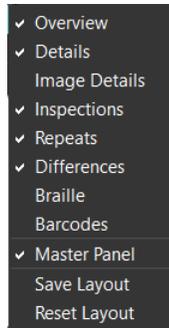
Layout Drop-Down Menu (Graphics Inspection)

To display/ hide the panels:

- Uncheck the panel name in the **Layout** drop-down menu or click the **X** in the top-right corner of the panel once it has been loaded to hide it.

- Check the name of a hidden panel in the **Layout** drop-down menu to display it.

To move a given panel:

- Click its title bar, hold down, and shift it to one of the areas in the margins of your screen that become shaded in blue.

To save your layout so that it reappears as is upon closing and re-opening the Application:
- Click **Save Layout.**

To reset your layout to the default:

- Click **Reset Layout.**

5.4.2 Overview Panel

The **Overview** panel displays the original Sample image. The difference that is selected is located at the intersection of the two red lines.

To zoom in or out of the Sample image in the **Overview** panel:
- Slide the button in the middle of the bar accordingly.
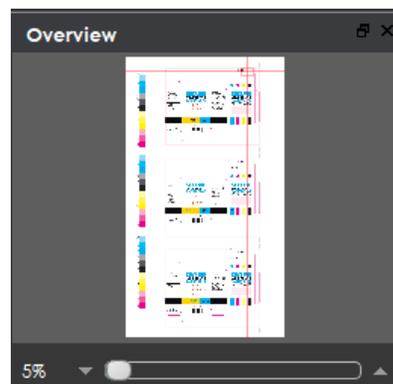
Overview Panel

5.4.3 Repeats Panel

The **Repeats** panels lists the number of repeats of the Master image that were found in the Sample file after the inspection has been run. Repeats with differences will display a red icon to the left. Repeats without differences will display a green check mark to the left instead.

To navigate between repeats:
- Click the desired number on the list.
- The selected repeat will appear in the Inspection View Sample panel.
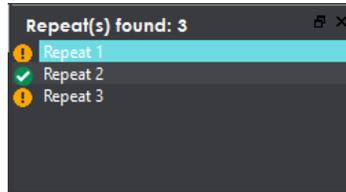
Repeats Panel

5.4.4 Difference List and Details Panels

The **Difference List** displays the differences between the Master and Sample images for easy reviewing and proofing.

The **Difference Details** panel lets you assign comments and levels to selected differences and include or exclude them from your report.

To select a difference:
- Click it in the **Difference List**. It will become highlighted.
  - The corresponding difference be highlighted in the Inspection View Sample panel.

To assign a level to the difference:
- Select a level in the **Level** drop-down box in the **Difference Details** panel. The color-coded level will display in the **Difference List** to the right of the difference.
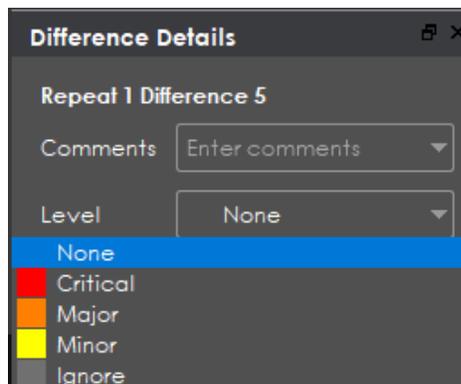
Level Drop-Down Box

To assign a comment to a difference:

- Select a comment in the **Comments** drop-down box or type in a custom comment.
- A sticky-note icon will display in the **Difference List** to the right of the difference, signifying the presence of a comment.

Comments Drop-Down Box

To exclude the difference from the report, assuming **Force inclusion of all differences** (see Section 5.3.6.3 Exclude Differences) has not been checked:

- Click **Exclude**.
- The difference will get crossed out in the **Difference List** and the next difference will then be selected. To cancel the exclude, select the difference again and click **Include (F11)**.

To navigate to the next difference:

- Click **Include**, or

- Press the **F11** key, or

- Click on the desired difference in the **Difference List**, or

- Press the DOWN ARROW ↓ key. In each case, the difference will be included in the report.

To navigate to the previous difference:

- Press the UP ARROW ↑ key.

5.4.5 Inspections Panel

The Inspection View contains the **Inspections** panel, which lists completed inspections. For example, you may run multiple inspections prior to generating the report. The Application lets you rename the inspections and/ or exclude them from the report.

Inspections Panel

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Rename**.

- Enter the desired name and click **OK**.

- The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The inspection will not be included in the next generated report.

5.4.6 Master Panel

Unchecking **Master Panel** in the **Layout** drop-down menu hides it from view. The Sample panel will take up the entire Inspection View area as a result. To make the Master re-appear, simply check it again. It is checked by default.

6   Barcode Inspection

This chapter describes the process for inspecting files containing barcodes. **Barcode Inspection Mode** detects and grades barcodes, displaying details such as decodability, magnification, quiet zones, etc. See Section 6.3.3 for more information on each of the individual barcode parameters.

NOTE: The **Barcode Inspection Mode** ▥ icon will only display if the module has been purchased.

6.1 Step-by-Step

This section describes the steps to follow when running a barcode inspection.

1.   Load Electronic Files (Skip to No. 2 to Load Scanned Files)

To inspect barcodes in a master file:

- Click **File Menu** 🗀 → **Load Master** or double-click in the Master panel to launch the load-file window. You can also load a file by using "drag and drop."

- The Master image will load in the Master panel.

- If the file is a PDF:

  – The integrated **PDF Viewer** will display (see Section 3.6 PDF Viewer).

  – Prepare the Master image using the **PDF Viewer** tools, if required.

- Click **Perform Inspection** 🔍 and the results will display in the Inspection View.

To inspect barcodes in a sample file:

- Click **File Menu** 🗀 → **Load Sample** or double-click in the Sample panel and follow the same steps as above.

2.   Load Scanned Files (Skip Over if Electronic Files Loaded)

- Click **Scanner Menu** 🖨 → **Select Source.**
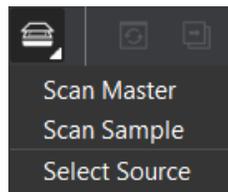
- Select the applicable scanner from the **Scanner Selection** window and click **Select.**
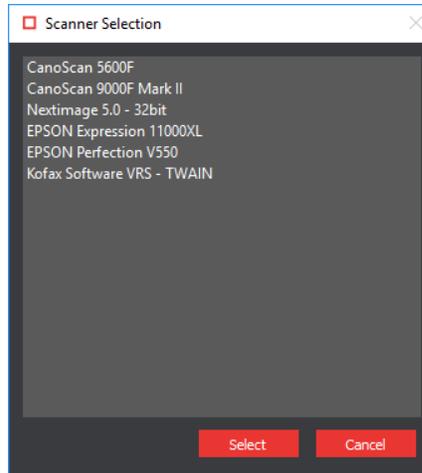
Scanner Selection Window

- Click **Scanner Menu** → **Scan Master** to scan the Master document. Once scanned, the image will load in the Master panel.

- Click **Scanner Menu** → **Scan Sample** to scan the Sample document. Once scanned, the image will load in the Sample panel.

3. **Select the Barcode Inspection Mode Icon**

4. **Select an Action**
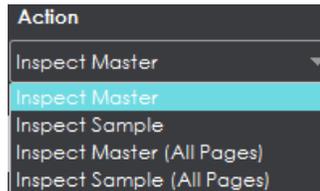
Action Drop-Down Menu

To inspect a master file for barcodes:

- Click **Action** → **Inspect Master** (for masters placed in the Master panel).

To inspect a sample file for barcodes:

- Click **Action** → **Inspect Sample** (for samples placed in the Sample panel).

To inspect multi-page files or multiple files for barcodes:

- Click **Action** → **Inspect Master (All Pages)** (for masters placed in the Master panel).

- Click **Action** → **Inspect Sample (All Pages)** (for samples placed in the Sample panel).

5. **Select Profile**

- Click **Profile**.

- Select the profile that best suits your inspection needs from the drop-down menu.
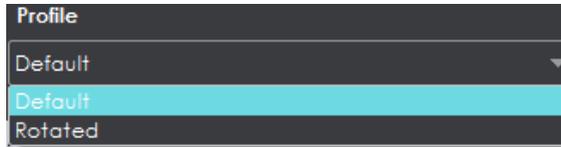
Barcode Inspection Profiles

The following default profiles are installed with the system:

PROFILE	DESCRIPTION
Default	Inspect master or sample files with barcodes in horizontal or vertical orientations
Rotated	Inspect master or sample files with rotated barcodes; Detection speed is slightly slower

6. **Run the Inspection**

- Click **Perform Inspection** and the results will display in the Inspection View.

7. **Review**

- To navigate to a barcode, click on the barcode in the **Barcodes** panel in the Inspection View. The **Barcode Details** panel will display its parameters and grades/ values.
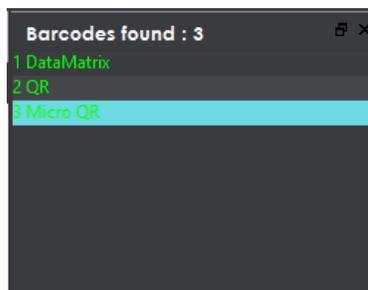
Barcodes Panel
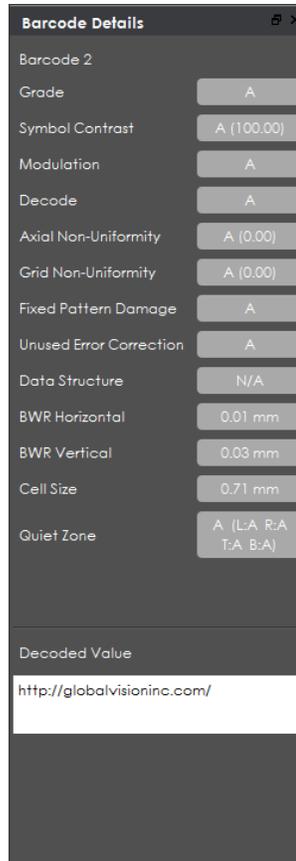
Barcode Details Panel

- An overall grade is determined for the barcode based on the values of the individual parameters. For more details on each of the available panels, including individual parameters and grades see Section 6.3 Layouts.
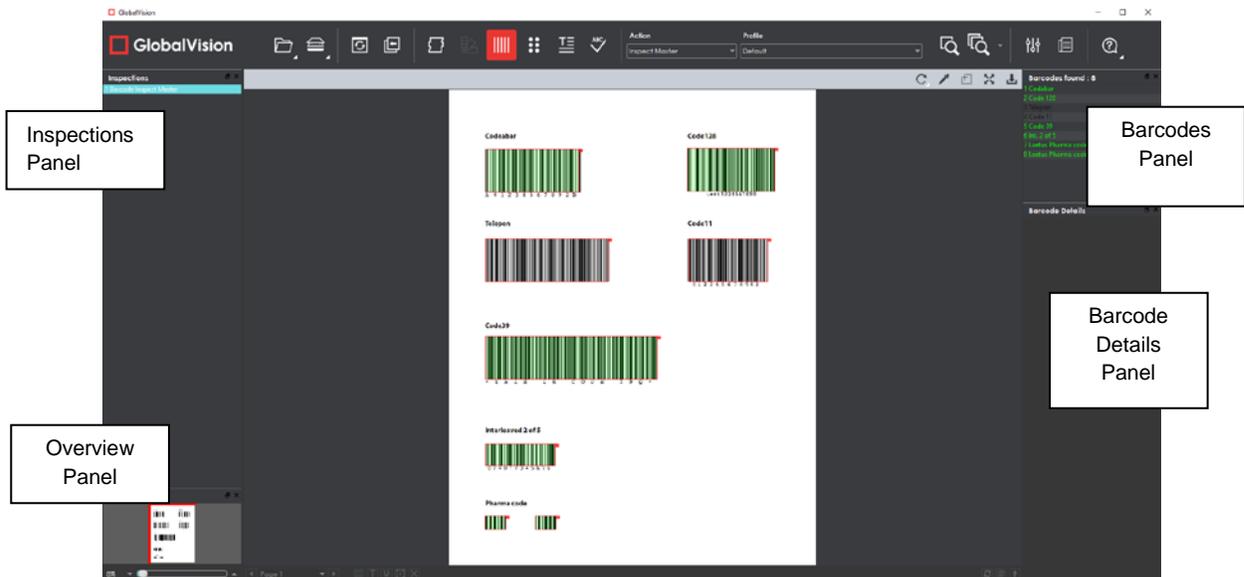
Inspection View

- Use the track wheel to zoom in or out of the image.

- Hold the left mouse button and move it around to pan the image.

- To review multiple pages, navigate through them at the bottom left of the Inspection View.

Page Navigation

8. **Include Inspections in Report**

The Application lets you rename inspections and/ or exclude them from the report after having conducted several. This option is available under the **Inspections** panel.

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel.

Inspections Panel

- Click **Rename**, enter the desired name, and click **OK**.

- The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The Inspection will not be included in the next generated report.

  NOTE: For more information on layouts and the panels available to you, see Section 6.3 Layouts.

9. **Generate the Report**

- Click the **Generate Report** icon.

- See Chapter 4.5 Generating Reports for step-by-step instructions.

10. **Clear Inspection Results and Run a New Inspection**

To retain inspection results and run a new inspection:

- Click **Back** . The Main View will display the Master/ Sample image.

- To load a new file to be inspected, follow the steps above.

- To run a new inspection with the same files, click **Perform Inspection** .

- Once the inspection is completed, both it and the previous inspection will be listed in the **Inspections** panel in your Inspection View.

To clear inspection results and run a new inspection:

- Click **Reset Interface** . The following message will display, asking if you want to continue:
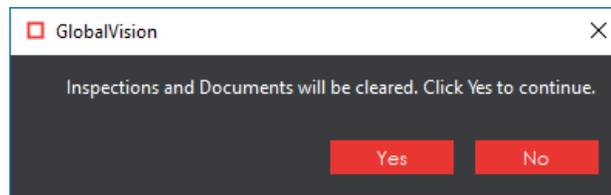
- Click **Yes** to clear inspection results and documents. The Main View will display.

6.2 Inspection Toolbar

The **Barcode Inspection** toolbar contains the following tools:

Barcode Inspection Toolbar

6.2.1 Rotate

To rotate the Master/ Sample image:

- Click **Rotate** .
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

6.2.2 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the inspected image:

- Click the **Color Picker** .
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.

NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.
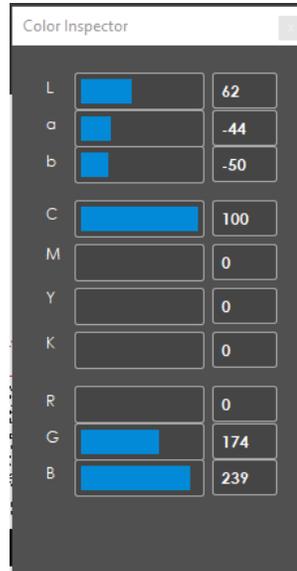
Color Inspector Window

6.2.3   Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area using the crosshairs that appear and the left button of your mouse or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Inspection View.

- Scroll downward with the track wheel.

To pan:

- Left-click in the Inspection View. Hold and move the mouse around the panel.

6.2.4   Reset View

To restore the image to its original size:

- Click **Reset View** .

6.2.5 Save View

To save an image to a file:

- Click **Save View** [icon] on the toolbar. The **Save As** window will display with the file type .tif as the default.

- Select the desired file type and storage location and click **Save**.

6.3 Layouts

6.3.1 Creating a Layout

The Inspection View contains panels that let you review the barcode inspection results. These panels constitute your layout and can be displayed or hidden as required. Layout customization is ideal for multi-monitor configurations, as panels can be placed on separate displays. To view the different layout panels

that can be loaded, click **File Menu** [icon] → **Layout**.

NOTE: The **Barcodes** panel can only be selected if the applicable license has been purchased.
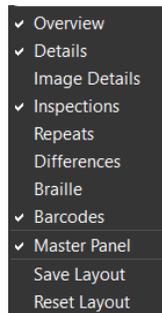
Layout Drop-Down Menu (Barcode Inspection)

To display/ hide the panels:

- Uncheck the panel name in the **Layout** drop-down menu or click the **X** in the top-right corner of the panel once it has been loaded to hide it.

- Check the panel name to display it.

To move a given panel:

- Click its title bar, hold down, and shift it to one of the areas in the margins of your screen that become shaded in blue.

To save your layout so that it reappears as is upon closing and re-opening the Application:
- Click **Save Layout.**

To reset your layout to the default:

- Click **Reset Layout.**

6.3.2　Barcodes Panel

To navigate to a barcode, click on the barcode in the **Barcodes** panel in the Inspection View. The **Barcode Details** panel will display its parameters and the accompanying grades/ values. The barcode itself will be highlighted in the Inspection View.
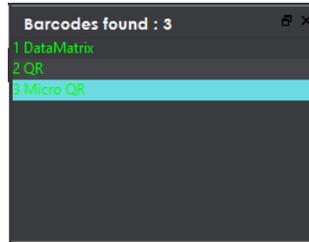
Barcodes Panel

6.3.3　Barcode Details Panel

This section describes the barcode details found in the panel of the same name. For more information on how parameters are graded, see in the Appendix.
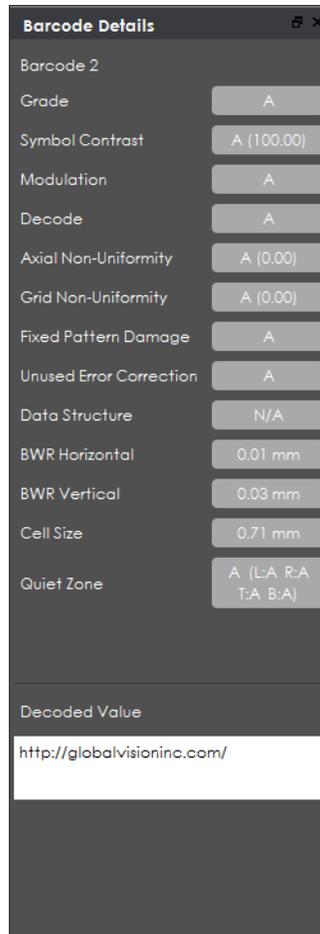
Barcode Details Panel

Barcode Parameters

1D BARCODE PARAMETERS	
Type	Barcode type detected
Grade	Overall grade for the barcode; See the table below for a list of barcode grades
Decodability	Ease of barcode identification; The Application assigns a grade from A-F (100-0%)
Magnification	Percentage (+/- 10%) that a barcode has been magnified based on a starting point of 100%; Based on width to accommodate truncated barcodes and can vary from 80% to 200% except for Interleaved 2 to 5-type codes
Symbol Contrast	Difference in contrast between the darkest and the lightest parts of a barcode; The system assigns a grade from A-F (100-0%)
Min Edge Contrast	Minimum contrast between a space and its adjacent bars; The Application assigns a pass-or-fail grade (A or F) (100-0%)
Modulation	Ratio between symbol contrast and minimum edge contrast; The Application assigns a grade from A-F (100-0%)
Defects	Amount of discrepancies in the reflectance of a barcode; The Application assigns a grade from A to F (100-0%)
Decode	Determination of whether the barcode was generated correctly, with sufficient spacing between bars; The system assigns a pass-or-fail grade (A or F; 4 or 0)
Min Reflectance	Minimum reflectance value (darkest part of the barcode); The Application assigns a pass-or-fail grade (A or F)
Max Reflectance	Maximum reflectance value (the lightest part of the barcode); The Application assigns a rating from 100-0
BWR	Measure of the decrease in bar width needed to compensate for print gain; The Application assigns a measurement in mm
Decoded Value	Decoded value of the selected barcode
Quiet Zone	Blank margins bordering a barcode; The Application assigns a pass-or-fail grade (A or F; Left% and Right %)
Data Structure	Type of information that is embedded in the barcode; The Application analyzes applicable barcodes as either having valid (A) or invalid (F) data structures (GS1 data matrix and QR codes only)
Narrow Bar	Width of the narrow bars comprising the barcode in mm; Higher DPI values yield results that are more precise; The Application assigns a grade from A-F
Wide Bar	Width of the wide bars comprising the barcode in mm; Higher DPI values yield results that are more precise; The Application assigns a pass-or-fail grade (A or F)
Wide to Narrow Ratio	Ratio that determines narrow and wide bar widths (NB:WB); The Application assigns a pass-or-fail grade (A or F)
Gap	Amount of space between the last black bar of one character and the first of another in mm; The Application assigns a pass-or-fail grade (A or F)

2D BARCODE PARAMETERS	
Type	Barcode type detected.
Grade	Overall grade for the barcode; See the table below for descriptions
Symbol Contrast	Difference in contrast between the darkest and the lightest parts of a barcode; The Application assigns a grade from A-F (100-0%)
Modulation	Ratio between symbol contrast and minimum edge contrast; The Application assigns a grade from A-F
Decode	Determination of whether the barcode was generated correctly, with sufficient spacing between bars; The Application assigns a pass-or-fail grade (A or F; 4 or 0)
Axial Non-Uniformity	Difference in length of the two axes of the barcode; The Application assigns a grade from A-F (0-100%)
Grid Non-Uniformity	Vector deviation of the barcode from an ideal position; The Application assigns a grade from A-F (0-100%)
Fixed Pattern Damage	Damage done to the pattern; The Application assigns a grade from A-F
Unused Error Correction	Amount of unused error correction embedded in the barcode; The Application assigns a grade from A-F
Decoded Value	Decoded value of the selected barcode
BWR Horizontal	Measure of the decrease in horizontal bar width needed to compensate for print gain; The Application assigns a measurement in mm
BWR Vertical	Measure of the decrease in vertical bar width needed to compensate for print gain; The Application assigns a measurement in mm
Data Structure	Type of information that is embedded in the barcode; The application analyzes applicable barcodes as either having valid ("A") or invalid ("F") data structures (GS1 data matrix and QR codes only)
Cell Size	Height and width of a cell comprising the data matrix (QR code); The Application assigns a measurement in mm
Quiet Zone	Blank margins bordering a barcode; The Application assigns a pass-or-fail grade (A or F; Left% and Right %)

Barcode Grades

GRADE	COLOR	DESCRIPTION
A		Overall grade of 3.5 or higher; The barcode should scan easily the first time with most barcode scanning equipment
B		Overall grade of 2.5 - 3.5; The barcode may scan easily the first time and there is a high probability of success if a second scan is performed
C		Overall grade of 1.5 - 2.5; The minimum most barcodes should achieve
D		Acceptable only if the barcode is printed on fiberboard
F		Failing grade
N/A		Verification grade of the barcode symbol is not supported

6.3.4 Inspections Panel

The Inspection View contains the **Inspections** panel, which lists completed inspections. For example, you may run multiple inspections prior to generating the report. The Application lets you rename the inspections and/ or exclude them from the report.
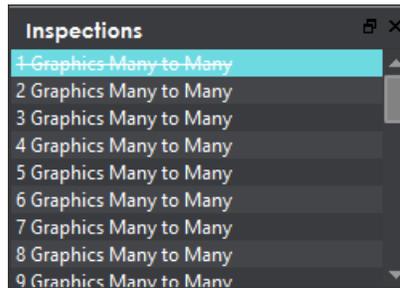

Inspections Panel

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Rename**.

- Enter the desired name and click **OK**.

- The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The Inspection will not be included in the next generated report.

6.3.5 Overview Panel

The **Overview** panel displays the image or inspection currently being viewed in the Inspection View. The selected barcode is located at the intersection of two red lines.

To zoom in or out of the Sample image in the **Overview** panel:
- Slide the button in the middle of the bar accordingly.
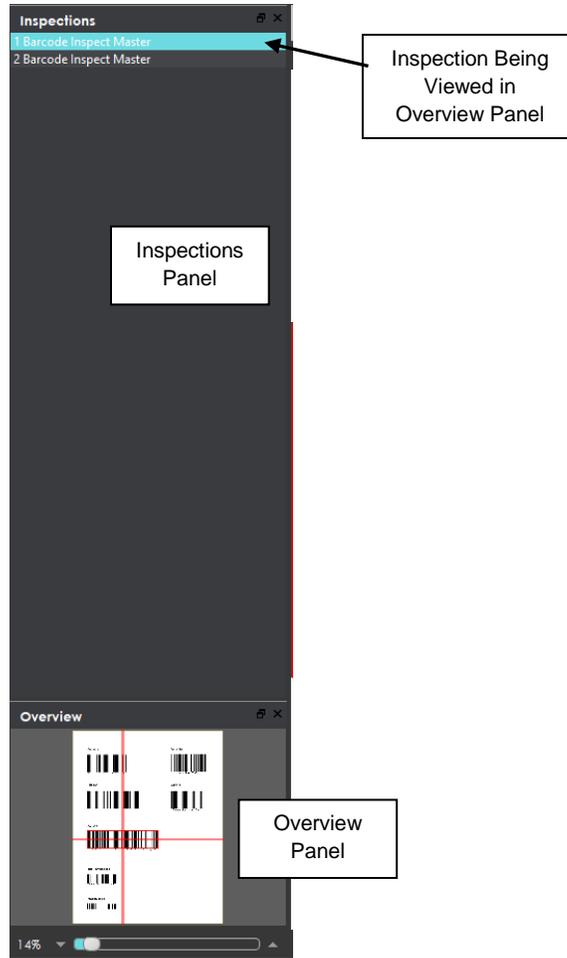
Inspections and Overview Panels

6.3.6 Master Panel

Toggling the **Master Panel** on/ off in the **Layout** drop-down menu shifts the file from appearing in the Sample panel (regardless of whether it's a master or sample being inspected) to it taking up the entire Inspection View. The latter is the default position (off).

7   Braille Inspection

Braille Inspection Mode lets you inspect separate master or sample files for Braille translation or to compare the two. The Application supports both digital documents and scanned copies of embossed or glue-dot sample types.

NOTE: The **Braille Inspection Mode** icon will only display if the module has been purchased.

There are three options available:

- **Braille Inspection** actions inspect the loaded Master/ Sample file (All Pages, if applicable) for Braille. The Application translates the Braille and displays information about the Braille dots such as the language, number of dots, number of characters, number of lines, dot spacing, character spacing, word spacing, and line spacing values.

- **Braille Compare** compares Braille regions that were detected on the Sample against the detected Braille regions on the Master.

- **Braille Compare (Glue Dots)** requires two different scans of the Sample and compares Braille regions detected on the Sample against detected Braille regions on the Master.

The system supports Braille on glue dot labels and embossed cartons. The system lets the user modify the translation by adding/ removing dots (**Braille Inspection**) and by marking individual Braille dots as missing or extra (**Compare**/ **Compare (Glue Dots)**). See later steps in this section for more information.

BRAILLE STANDARDS AND GUIDELINES
o   Master file must be original artwork in PDF, BMP, or TIFF format
o   Braille dots must be on top-most layer
o   Braille dots must be solid-filled
o   Braille dots must be a unique color
o   Braille dot spacing should follow Marburg Medium Standard

7.1 Step-by-Step

This section describes the steps to follow when running a Braille inspection.

1.   Load Files for Braille Inspection (Skip to No. 2 for Braille Compare)

To inspect a file in the Master Panel:

- Click **File Menu** → **Load Master** or double-click in the Master panel to select the file to be loaded**.**
- The Master image will load in the Master panel.
- If the file is a PDF:
  - The integrated **PDF Viewer** will display (see Section 3.6 PDF Viewer).
  - Prepare the Master image using the **PDF Viewer** tools, if required.

To inspect a file in the Sample Panel:

- Click **File Menu** [icon] → **Load Sample** or double-click in the Sample panel to start repeating the process to load sample files.

2. Load Scanned Files for Braille Compare (Skip to No. 3 for Electronic Files)

Braille allows for the comparison of embossed or glue-dot samples, which must be scanned.

BRAILLE SAMPLE TYPE DEFINITIONS	
Embossed	Raised Braille dots created with the use of a dye press
Glue Dots	Raised Braille dots created by a transparent resinous ultraviolet curing process

"Embossed" requires a scan of the back side of the Sample to compare to the Master file. The glue-dot sample type requires a scan of the front side of the Sample to compare to the Master file, with two scans needed for accurate dot detection: one in the original orientation and one rotated 180 degrees.

A. Embossed Samples (Braille Compare)

To compare Braille in the Sample file against the Master file:

- Click **File Menu** [icon] → **Load Master.**

- The Master image will load in the Master panel.

- If the file is a PDF:

    - The integrated **PDF Viewer** will display ([see Section 3.6 PDF Viewer](#)).

    - Prepare the Master image using the **PDF Viewer** tools, if required.

- Click **Scanner Menu** [icon] → **Select Source.**

- Choose the applicable scanner from the **Scanner Selection** window and click **Select.**

- Click **Scanner Menu** [icon] → **Scan Sample** to start the scanning process for the Sample document.

- Place the back side of the Embossed Sample on the scanner.

- Scan the back side.

- Once scanned, the image will load in the Sample panel.

B. Glue Dots (Braille Compare)

To compare Braille in the Sample file against the Master file:

- Click **File Menu** [icon] → **Load Master.**

- The Master image will load in the Master panel.

- If the file is a PDF:

    - The **PDF Viewer** will display ([see Section 3.6 PDF Viewer](#)).

- Prepare the Master image using the **PDF Viewer** tools, if required.

- Click **Scanner Menu** ⊜ → **Select Source.**

- Select the applicable scanner from the **Scanner Selection** window and click **Select.**

- Click **Scanner Menu** ⊜ → **Scan Sample** to start the scanning process for the Sample document.
  NOTE: Scanning the sample in the same orientation as it is displayed in the Master is recommended.

- Place the front side of the glue-dot sample rotated in the original orientation on the scanner.
- Once scanned, the image will load in the Sample panel.

- Click **Scanner Menu** ⊜ → **Scan Sample** to start the scanning process for the second scan.
- Place the front side of the glue-dot Sample rotated 180 degrees on the scanner.
- Once scanned, the image will load in the Sample panel.
- To view thumbnails of both samples at once, click on the **Show Pages** icon at the bottom of the Sample panel.

- Ensure the **Braille Inspection Mode** ⣿ icon is selected up top. Then right-click the thumbnail for the 180-degree Rotated Sample and select the **Rotated 180 degrees sample** option.

> Exclude Page
> Clear Braille Selection
> Rotated 180 degrees sample
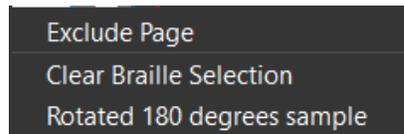
NOTE: To cancel the Rotated 180-degree selection, right-click the thumbnail and select **Clear Braille Selection**. Prior to running the inspection, the non-rotated sample must be selected and displayed in the Sample panel.

3. Load Electronic Files for Braille Compare (Skip Over if Files Already Loaded)

The system allows for the comparison of Braille in electronic files. To compare Braille in master and sample files:

- Click **File Menu** 🗁 → **Load Master.**

- The Master image will load in the Master panel.

- If the file is a PDF:
  - The integrated **PDF Viewer** will display (see Section 3.6 PDF Viewer).
  - Prepare the Master image using the **PDF Viewer** tools, if required.

- Click **File Menu** 🗁 → **Load Sample** or double-click in the Sample panel to start repeating the process to load the Sample file.

4. Ensure the Braille Inspection Mode Icon ⣿ Is Selected

5. Select an Action
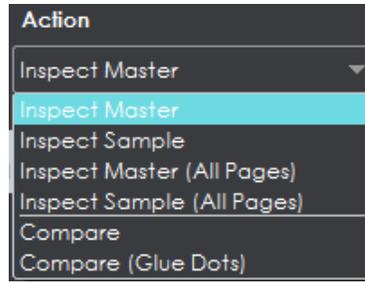
Action Drop-Down Menu

To inspect a master file:

- Click **Action → Inspect Master** (for masters placed in the Master panel).

To inspect a sample file:

- Click **Action → Inspect Sample** (for samples placed in the Sample panel).

To inspect multi-page documents or multiple files:

- Click **Action → Inspect Master (All Pages)** (for masters placed in the Master panel).

- Click **Action → Inspect Sample (All Pages)** (for samples placed in the Sample panel).

To compare Braille regions:

- Click **Action → Compare**.

To compare glue-dot Braille regions:

- Click **Action → Compare (Glue Dots)**.

6. Select Language

- Click the **Profile** drop-down menu to access the Application's library of available languages.

Profile Drop-Down Menu

- Select the language that best suits your inspection needs from the drop-down menu.
  NOTE: See Section 12.3 Supported Braille Languages in the Appendix.

7. Ensure the Proper Inspection Area Is Selected

- Use Master/ Sample tools to crop, rotate the image, etc. See sections 3.3 to 3.6 for more information.

8. Run the Inspection

- Click **Perform Inspection** and the results will display in the Inspection View.

9. View Differences

- Use the track wheel to zoom in or out of the image.

- Hold the left mouse button and move it around to pan the image.

- To review multiple pages, navigate through them at the bottom left of the Inspection View.

Page Navigation

10. Review the Differences

- Click on the Braille region to be inspected in the **Braille** panel. It will be highlighted and displayed in the Inspection View.
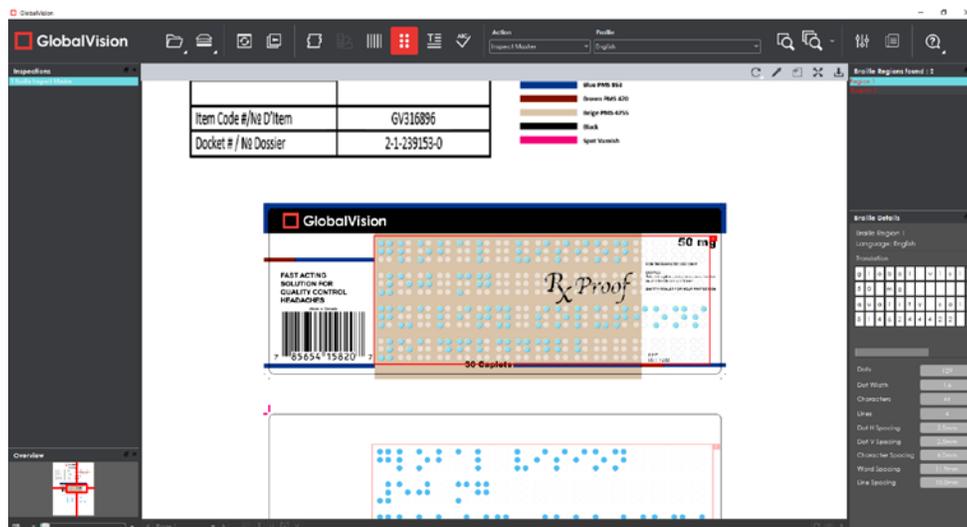
Braille Inspection View

- When running Braille **Compare** or Braille **Compare (Glue Dots)** inspections, missing (highlighted with a "minus" sign") and extra dots (highlighted with a "plus" sign) will be identified accordingly.

11. Modify the Dots (if Necessary)

To add a Braille dot:

- Select the Braille region in the **Braille** panel.
- CTRL-left-click on the dot that is missing. A black "+" will display in the dot and the translation will be modified in the **Braille Details** panel, highlighted in yellow. For more information on the Braille Details panel and the other available panels in your layout, see .

Dot Added

Modified Translation
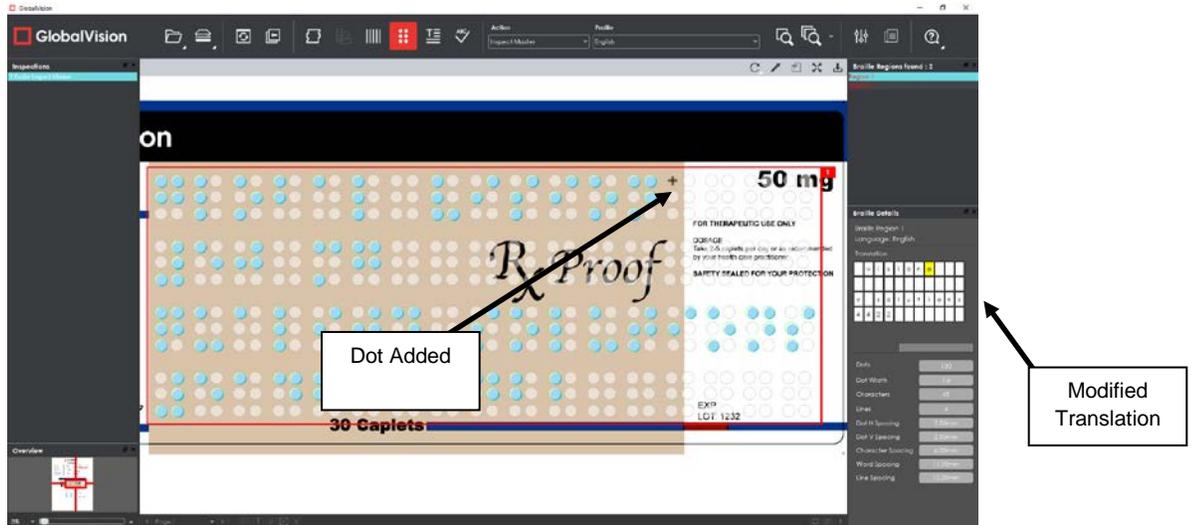
To remove a Braille dot:

- CTRL-left-click on the extra dot in the Inspection View. A black "-" will display in the dot and the translation will change accordingly in the **Braille Details** panel, highlighted in yellow.

Dot Removed

Modified Translation
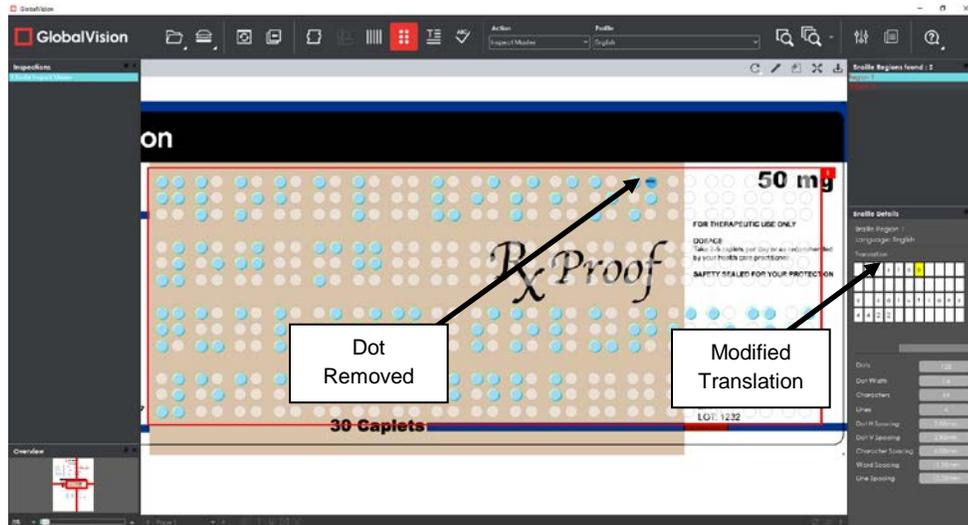
To cancel the Braille dot modification:

- CTRL-left-click on the dot. The added "+" or "-" will be removed from the dot and the translation will change accordingly in the **Braille Details** panel with the highlight removed.

12. Include Inspections in the Report

The Application lets you rename inspections and/ or exclude them from the report after having conducted several. This option is available under the **Inspections** panel.

NOTE: For more information on layouts and the panels available to you, see .

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel.

Inspections Panel

- Click **Rename**.

- Enter the desired name and click **OK**.

- The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel and click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.
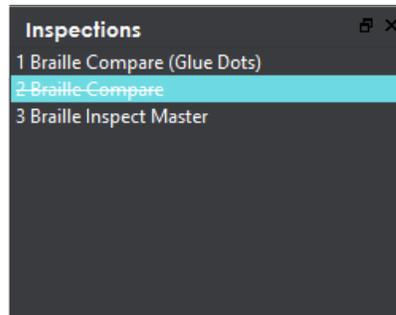
- The Inspection will not be included in the next generated report.

13. Generate the Report

- Click the **Generate Report** [icon] icon.

- See Section 4.5 Generating Reports for step-by-step instructions.

14. Clear Inspection Results and Run a New Inspection

To retain inspection results and run a new inspection:

- Click **Back** [icon]. The Main View will display the Master/ Sample image(s).

- To load new files to be inspected, follow the steps above.

- To run a new inspection with the same files, click **Perform Inspection** [icon].

- Once the inspection is completed, both it and the previous inspection will be listed in the **Inspections** panel in your Inspection View.

To clear inspection results and run a new inspection:

- Click **Reset Interface** [icon]. The following message will display, asking if you want to continue:
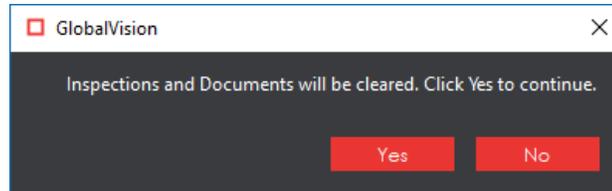
- Click **Yes** to clear inspection results and documents. The Main View will display.

7.2 Braille Inspection Toolbar

The **Braille Inspection** toolbar appears above the Inspection View once a Braille inspection (Inspect Master/ Sample) has been run and contains the following tools:

Braille Inspection Toolbar

7.2.1 Rotate

To rotate the Master/ Sample image:

- Click **Rotate** [icon].
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

7.2.2 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the inspected file:

- Click the **Color Picker** [icon].
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.
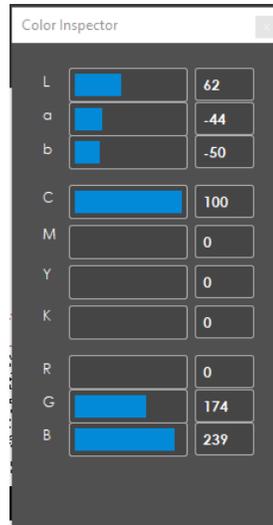
Color Inspector Window

7.2.3 Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area using the crosshairs that appear and the left button of your mouse or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Inspection View.

- Scroll downward with the track wheel.

To pan:

- Left-click in the Inspection View. Hold and move the mouse around the panel.

7.2.4 Reset View

To restore the image to its original size:

- Click **Reset View** .

7.2.5 Save View

To save an image to a file:

- Click **Save View** on the toolbar. The **Save As** window will display with the file type .tif as the default.

- Select the desired file type and storage location and click **Save**.

7.3 Braille Compare Master Toolbar

The **Braille Compare Master** toolbar appears above the Inspection View Master panel once a Braille comparison inspection (**Compare**/ **Compare (Glue Dots)**) has been run. It contains the following tools:

Braille Compare Master Toolbar

7.3.1 Rotate

To rotate the Master image:

- Click **Rotate** .
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

7.3.2 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the Master file:

- Click the **Color Picker** .
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.
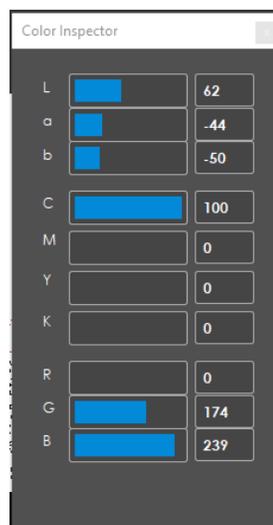
Color Inspector Window

7.3.3 Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area using the crosshairs that appear and the left button of your mouse or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Master panel.

- Scroll downward with the track wheel.

To pan:

- Left-click in the Master panel. Hold and move the mouse around the panel.

7.3.4 Reset View

To restore the image to its original size:

- Click **Reset View** .

7.3.5 Save View

To save an image to a file:

- Click **Save View** on the toolbar. The **Save As** window will display with the file type .tif as the default.

- Select the desired file type and storage location and click **Save**.

7.4 Braille Compare Sample Toolbar

The **Braille Compare Sample** toolbar appears above the Inspection View Master panel once a Braille comparison inspection (**Compare**/ **Compare (Glue Dots)**) has been run and contains the following tools:

Braille Compare Sample Toolbar

7.4.1 Rotate

To rotate the Master image:

- Click **Rotate** .
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

7.4.2 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the Sample file:

- Click the **Color Picker** ✏ .

- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
  NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see .
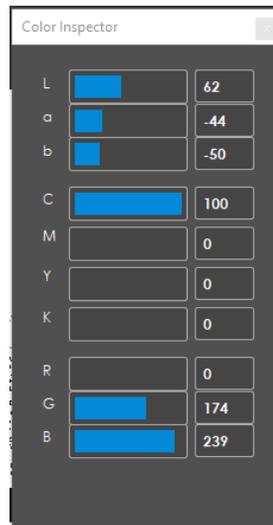
Color Inspector Window

7.4.3 Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area using the crosshairs that appear and the left button of your mouse or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Sample panel.

- Scroll downward with the track wheel.

To pan:

- Left-click in the Sample panel. Hold and move the mouse around the panel.

7.4.4 Reset View

To restore the image to its original size:

- Click **Reset View** ⤢.

7.4.5 Save View

To save an image to a file:

- Click **Save View** ⬇ on the toolbar. The **Save As** window will display with the file type .tif as the default.

- Select the desired file type and storage location and click **Save**.

7.5 Layouts

7.5.1 Creating a Layout

The Inspection View contains panels that let you review the Braille inspection results. These panels constitute your layout and can be displayed or hidden as required. Layout customization is ideal for multi-monitor configurations, as panels can be placed on separate displays. To view the different layout panels that can be loaded, click **File Menu** 📂 → **Layout**.

NOTE: The **Braille** panel can only be selected if the applicable license has been purchased.
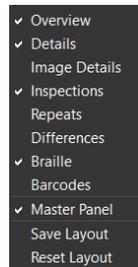
Layout Drop-Down Menu (Braille Inspection)

To display/ hide the panels:

- Uncheck the panel name in the **Layout** drop-down menu or click the **X** in the top right corner of the panel once it has been loaded to hide it.

- Check the panel name to display it.

To move a given panel:

- Click its title bar, hold down, and shift it to one of the areas in the margins of your screen that become shaded in blue.

To save your layout so that it reappears as is upon closing and re-opening the Application:

- Click **Save Layout.**

To reset your layout to the default:

- Click **Reset Layout.**

7.5.2 Braille Panel

To navigate to a barcode, click on it in the **Braille** panel. The **Braille Details** panel will display its translation and different parameters. The region itself will be highlighted in the Inspection View.

Braille Panel

7.5.3 Braille Details Panel

The selected region's details will display in the **Braille Details** panel for further review, with any differences between the Master and Sample files (during Braille **Compare** inspections) highlighted in yellow. If a parameter appears in red, it fails the ISO Standard 17351:2013 for dot diameter and spacing.
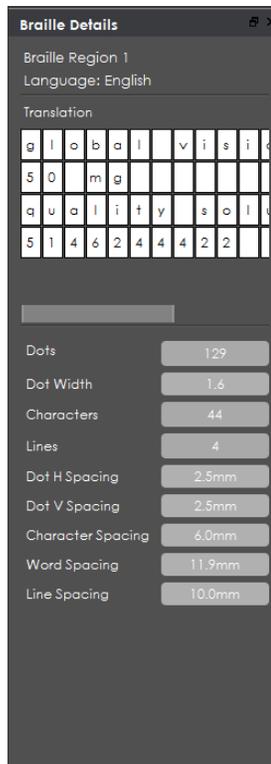
Braille Details Panel

The following table describes the individual parameters found in the **Braille Details** panel:

Braille Details	
Braille Region	Region selected
Language	Language of translation
Translation	Translation of Braille in the selected language; When the Master and Sample files are being compared, you will find separate Master/ Sample Translation fields **NOTE:** The ↑ before a lower-case character indicates an upper-case character, i.e., ↑**a** means an upper-case **A**; Unrecognized Braille characters are represented by an underscore "_"
Dots	Number of dots
Characters	Number of letters
Lines	Number of lines detected
Spacing (mm)	
Dot Width	Average dot width (does not apply to **Compare** inspections)
Dot H Spacing	Average horizontal spacing between dots
Dot V Spacing	Average vertical spacing between dots
Character Spacing	Average spacing between characters
Word Spacing	Average spacing between words
Line Spacing	Average spacing between lines

7.5.4 Inspections Panel

The Inspection View contains the **Inspections** panel, which lists completed inspections. For example, you may run multiple inspections prior to generating the report. The Application lets you rename the inspections and/ or exclude them from the report.

Inspections Panel

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel and click **Rename**.

- Enter the desired name and click **OK**. The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel and click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The Inspection will not be included in the next generated report.

7.5.5 Overview Panel

The **Overview** panel displays the image or inspection currently being viewed in the Inspection View. The Braille region currently selected is indicated by the intersection of the two red lines.

To zoom in or out of the image in the **Overview** Panel:
- Slide the button in the middle of the bar accordingly.
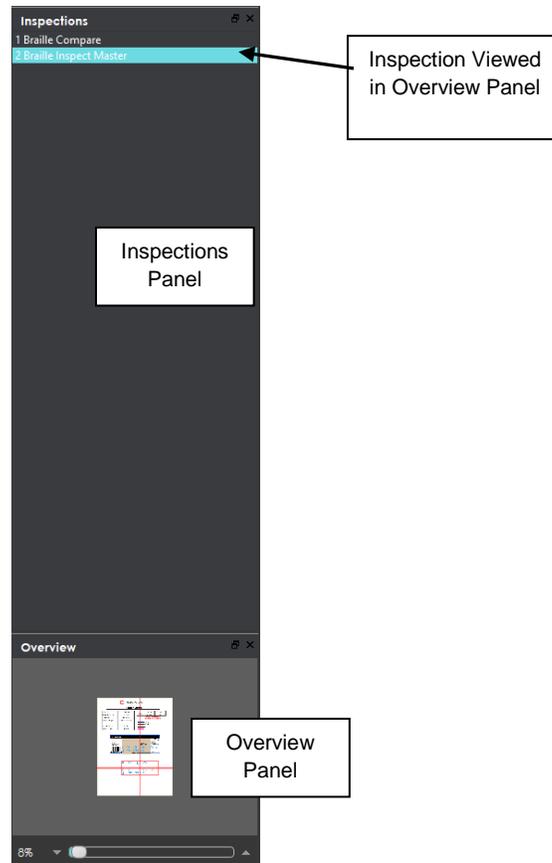
Inspections and Overview Panels

7.5.6 Master Panel

Toggling the **Master Panel** on/ off in the **Layout** drop-down menu has two effects. If you are comparing two files, the default is on. If it is toggled off when two files are being compared, instead of the Master and Sample appearing side by side, the inspected Sample will appear across the entire Inspection View. If you are inspecting a master or sample alone, it appears in its Off position by default. Toggling the panel on/ off shifts the file from taking up the entire Inspection View to appearing in the Sample panel (regardless of whether it's a master or sample being inspected).

8   Text Inspection

Text Inspection Mode lets you compare either left-to-right, right-to-left, or Asian copy in master and sample files. The two can be different file types that are laid out differently or files with similar layouts (revisions).

NOTE: The **Text Inspection Mode** [icon] icon will only display if the module has been purchased.

8.1 Step-by-Step

This section describes the steps to follow when running a text inspection.

1.   Load Files for Text Inspection

- Click **File Menu** [icon] → **Load Master** or double-click in the Master panel to select the file to be loaded**.**

- The Master image will load in the Master panel.
- If the file is a PDF:
    - The integrated **PDF Viewer** will display (see Section 3.6 PDF Viewer).
    - Prepare the Master image using the **PDF Viewer** tools, if required.

- Click **File Menu** [icon] → **Load Sample** or double-click in the Sample panel to start repeating the process to load sample files.

2.   Ensure the Text Inspection Mode Icon [icon] **Is Selected**

- **Compare (All Pages)** should be selected in the **Action** drop-down menu.

3.   Select Profile

- Click the **Profile** drop-down menu to access the Application's library of available profiles.
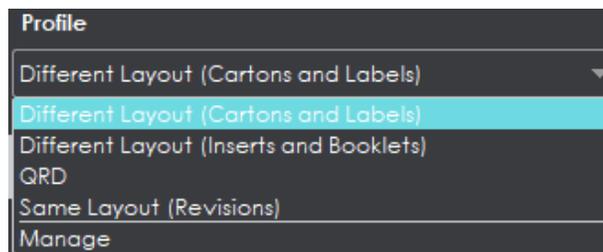
Profile Drop-Down Menu

The following default profiles are installed with the system:

PROFILE	FILE TYPES (MASTER AND SAMPLE)
Different Layout (Cartons and Labels)	Two electronic files with different layouts, like a Microsoft Word doc and one featuring laid-out carton/ labels, to be inspected for copy differences
Different Layout (Inserts and Booklets)	Two electronic files with different layouts, like a Word doc and one featuring a laid-out booklet/ insert, to be inspected for copy differences
QRD	Two electronic files including a QRD template and a laid-out sample
Same Layout (Revisions)	Two electronic files sharing the same layout to be inspected for revision purposes (minor changes expected)

4. Run the Inspection

- Click **Perform Inspection** . The files will be inspected and the differences displayed in the Inspection View.
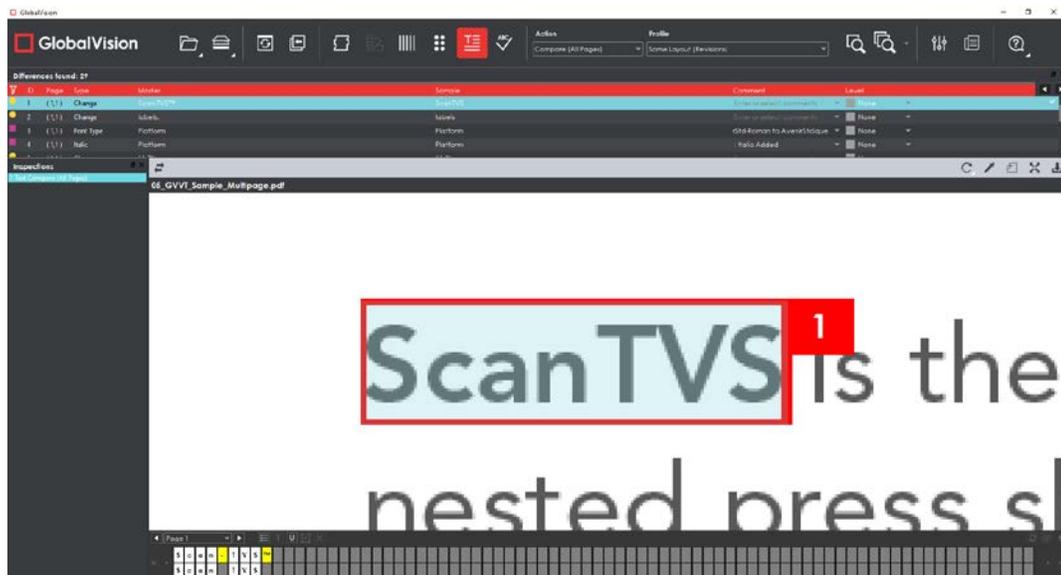
Inspection View

5. View the Results

To view the inspected file:

- Use the track wheel to zoom in or out.

- Hold the left mouse button and move it around to pan the image.

- To review multiple pages, navigate through them using the **Page Navigation** drop-down menu at the bottom left of the Inspection View.

Page Navigation

6. Review and Proof the Differences

To select a difference:

- Click on the difference in the **Difference List**.

Difference List

- It will be highlighted in the Inspection View and be displayed in the **Change Grid** below the two panels. The characters in yellow in the **Change Grid** represent the differences between the Master and Sample panels.
  NOTE: Scroll over a character in the Change Grid to display its Unicode value.
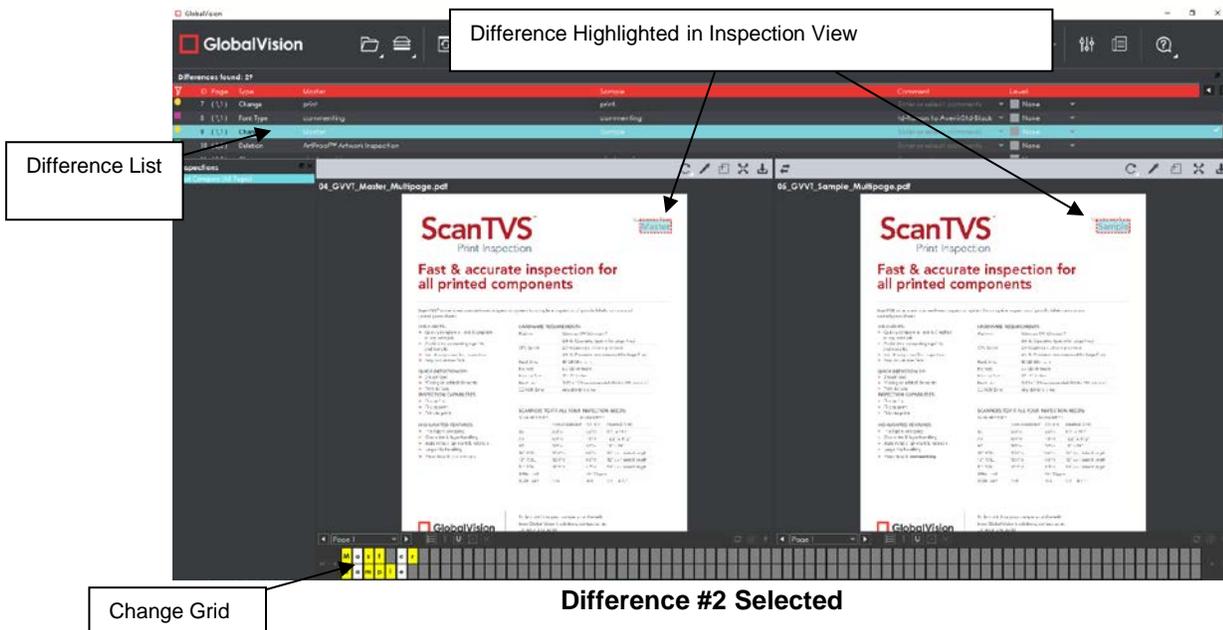
Difference #2 Selected

Change Grid

To assign a level to a difference:

- Select the difference in the **Difference List**. Click the **Level** drop-down box and select the level.
  NOTE: Hot keys (F1 – F5) may be applied to assign levels. Select the difference and click the appropriate "F" key (see below):

KEY	FUNCTION
F1	Reporting level - Critical
F2	Reporting level - Major
F3	Reporting level - Minor
F4	Reporting level - Ignore
F5	Reporting level – None

Levels Assigned Using Difference List

To assign a level to multiple differences:

- Hold down the CTRL key while selecting the differences, click the **Level** drop-down box, and select the level.
  NOTE: On a Mac operating system, to assign a level to multiple differences, hold down the COMMAND and SHIFT keys while selecting the differences, click the Level drop-down box, and select the level.

To remove a level assignment:

- Click the **Level** drop-down box and select **None**. The level will no longer display in the **Difference List**.

To assign comment to a difference:

- Select the difference in the **Difference List**. Click the **Comment** drop-down box and select one of the pre-defined comments that appear. The selected comment will display. Descriptors appear as the default comment for **Size**, **Font Type**, **Bold**, **Italic**, **Hyphen**, **Underline**, **Color**, and **Sub/Super**-type differences. System-generated comments, which offer additional details, meanwhile appear as options in the Comment drop-down box for **Hyphen**, **Line Break Space**, **Case**, and **Change**-type differences.

Comment Drop-Down Box in Difference List

To assign a comment to multiple differences:

- Hold down the CTRL key while selecting the differences, click the **Comment** drop-down box, and select the comment.
  NOTE: On a Mac operating system, to assign a comment to multiple differences, hold down the COMMAND and SHIFT keys while selecting the differences, click the **Comment** drop-down box, and select the comment.

To assign a customized comment to a difference:

- Select the difference in the **Difference List**, click the **Comment** drop-down menu, select the blank entry at the top, and type in the comment. Click elsewhere for it to take effect.

To delete a comment from a difference:

- Click in the **Comment** drop-down box in the **Difference List** and select the blank entry. Click elsewhere for it to take effect.

To exclude a difference:

- Select the difference in the **Difference List** and click F12**.**

  NOTE: An administrator can configure the Application to force the inclusion of all differences, in which case clicking F12 will not have an effect.

7. Include Inspections in Report

The Application lets you rename inspections and/ or exclude them from the report. This option is available under the **Inspections** panel.

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel.

Inspections Panel

- Click **Rename**.

- Enter the desired name and click **OK**.

- The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The inspection will not be included in the next generated report.

  NOTE: For more information on layouts and the panels available to you, see Section 8.4 Layouts.

8. Generate the Report

- Click the **Generate Report** icon.

- See Section 4.5 Generating Reports for step-by-step instructions.

9. Retain Inspection Results and Run a New Inspection

- Click **Back** . The Main View will display with the Master and Sample images loaded.

- To load new files, follow the steps above.

- Click **Perform Inspection** . The files will be inspected, and the differences will display in the Inspection View. Each subsequent retained inspection will be listed in the **Inspections** panel.

10. Clear Inspection Results and Run a New Inspection

- Click **Reset Interface** . The following message will display, asking if you want to continue:
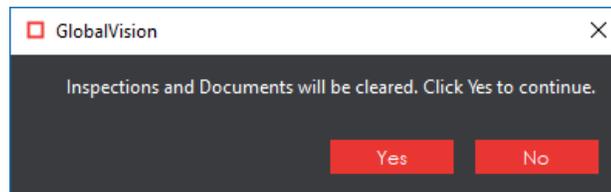
- Click **Yes** to clear inspection results and documents. The Main View will display with the profile on the title bar.

8.2 Text Inspection Master Toolbar

The **Text Inspection Master** toolbar appears above the Inspection View Master panel once a text inspection has been run. It contains the following tools:

**Text Inspection Master Toolbar**

8.2.1 Rotate

To rotate the Master image:

- Click **Rotate** [icon] .
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

8.2.2 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the Master file:

- Click the **Color Picker** [icon] .
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
  NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.
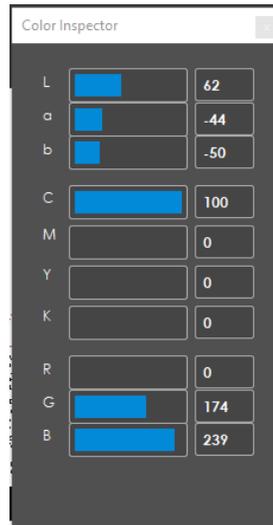
Color Inspector Window

8.2.3 Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** [icon] .

- Select the area using the crosshairs that appear and the left button of your mouse or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Master panel.

- Scroll downward with the track wheel.

To pan:

- Left-click in the Master panel. Hold and move the mouse around the panel.

8.2.4 Reset View

To restore the image to its original size:

- Click **Reset View** [icon].

8.2.5 Save View

To save an image to a file:

- Click **Save View** [icon] on the toolbar. The **Save As** window will display with the file type .tif as the default.
- Select the desired file type and storage location and click **Save**.

8.3 Text Inspection Sample Toolbar

The **Text Inspection Sample** toolbar appears above the Inspection View Master panel once a text inspection has been run and contains the following tools:
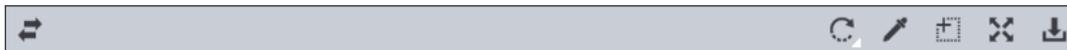
Text Inspection Sample Toolbar

8.3.1 Resync Text

Resync Text [icon] may be used to remove an undesired difference that is an identical match between the Master and Sample from the inspection results.

To resync a difference:

- Click the **Underline Text** [icon] icon underneath the Master panel and click and drag the crosshairs to select the difference in question. The text gets underlined in blue.
- Alternatively, right-click on the difference in the **Difference List** and choose **Select on master** in the menu that pops up. The text in question gets underlined in blue.
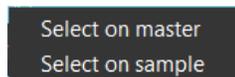
- Repeat either process for the Sample panel to highlight the same text.
  NOTE: Resync Text applies only to **Change**, **Insertion**, and **Deletion** differences
- Click the **Resync Text** [icon] icon.

- The difference will be removed from the **Difference List** and the amount of differences detected will be re-numbered.
  NOTE: If the differences are not identical, the difference type will only be re-classified as **Change** and not get removed; A resynched difference can also not be undone. The inspection will have to be re-run to get it back.

To clear a selection:
- Right-click on the text underlined in blue.
- Select either **Clear**, to clear the underline from the word, or **Clear All**, to clear all underlines, in the menu that pops up.

Clear
Clear All
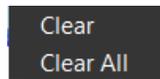
8.3.2 Rotate

To rotate the Master image:
- Click **Rotate** .
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

8.3.3 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the Sample file:
- Click the **Color Picker** .
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
  NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.

Color Inspector

L		62
a		-44
b		-50
C		100
M		0
Y		0
K		0
R		0
G		174
B		239
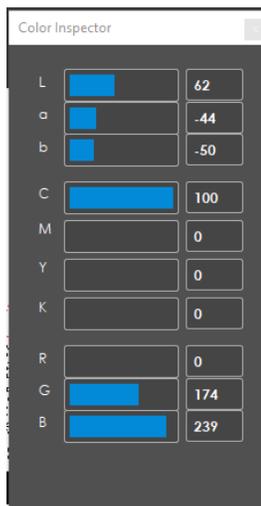
Color Inspector Window

8.3.4 Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area using the crosshairs that appear and the left button of your mouse or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Sample panel.

- Scroll downward with the track wheel.

To pan:

- Left-click in the Sample panel. Hold and move the mouse around the panel.

8.3.5 Reset View

To restore the image to its original size:

- Click **Reset View** .

8.3.6 Save View

To save an image to a file:

- Click **Save View** on the toolbar. The **Save As** window will display with the file type .tif as the default.

- Select the desired file type and storage location and click **Save**.

8.4 Layouts

8.4.1 Creating a Layout

The Inspection View contains panels that let you review the text inspection results. These panels constitute your layout and can be displayed or hidden as required. Layout customization is ideal for multi-monitor configurations, as panels can be placed on separate displays. To view the different layout panels

that can be loaded, click **File Menu** → **Layout**.
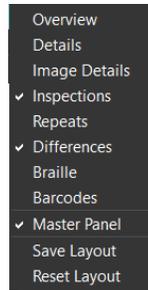
Layout Drop-Down Menu (Text Inspection)

To display/ hide the panels:

- Uncheck the panel name in the **Layout** drop-down menu or click the **X** in the top-right corner of the panel once it has been loaded to hide it.

- Check the panel name to display it.

To move a given panel:

- Click its title bar, hold down, and shift it to one of the areas in the margins of your screen that become shaded in blue.

To save your layout so that it reappears as is upon closing and re-opening the Application:

- Click **Save Layout.**

To reset your layout to the default:

- Click **Reset Layout.**

8.4.2 Difference List

The **Difference List** displays the differences between the Master and Sample files for easy reviewing and proofing. The column headings include the **Filter Differences** icon, **Difference ID**, **Page**, **Difference Type**, **Master** (the difference as it appears in the Master, **Sample** (the difference as it appears in the Sample), **Comment** drop-down list, and **Level** drop-down list. With exception to the Filter Differences icon, click any heading to sort the list based on the contents of that column. By default, the list is sorted by the Difference ID.
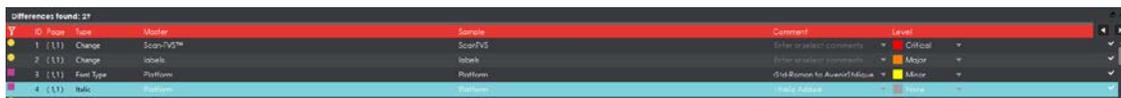
Difference List

To select a difference:

- Click it in the **Difference List**.

- It will be highlighted in the Inspection View Master and Sample panels.
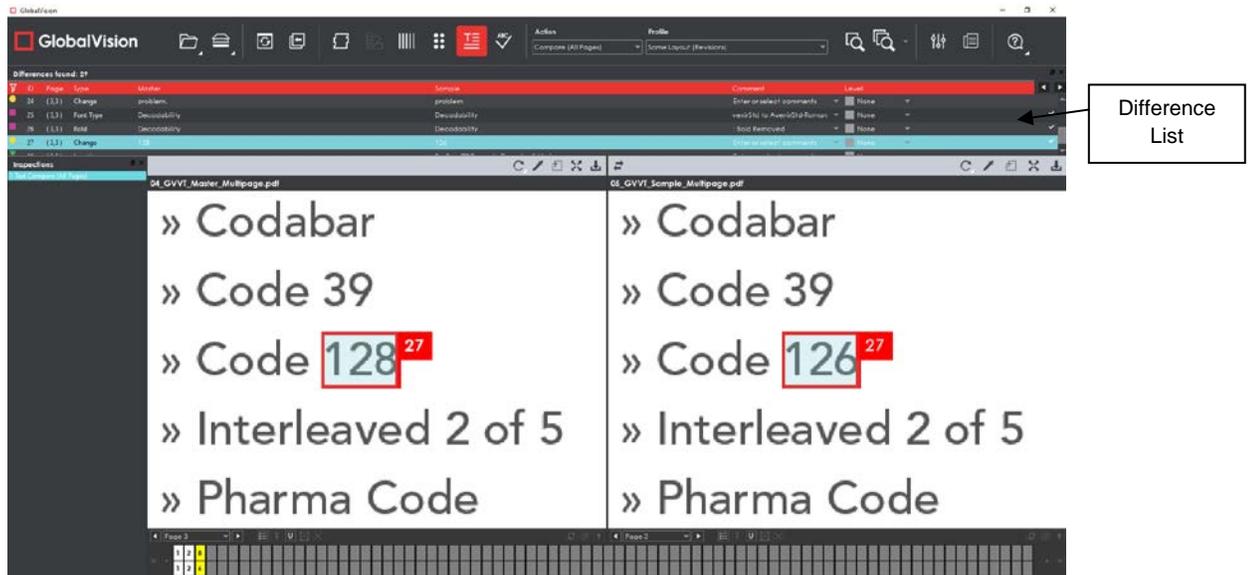
Inspection View

To filter the differences, so only specific types appear:

- Click the **Filter Differences** ⛛ icon.
- The **Filter** window appears.
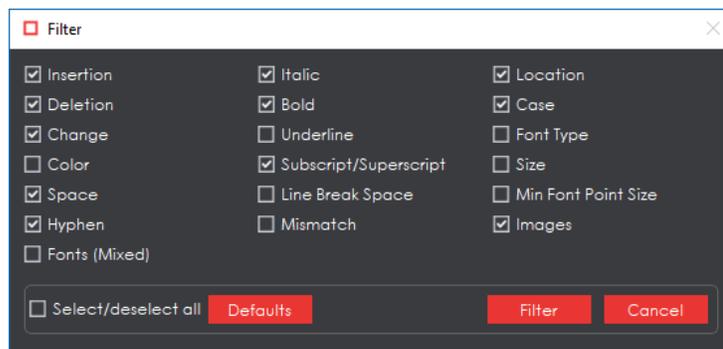
Filter Window

- Ensure the difference types desired to appear in the **Difference List** are checked by either:
  - Checking/ Unchecking them individually.
  - Clicking **Select/deselect all**, which toggles all difference types on or off.
  - Clicking **Defaults**, which resets the selections.
- Click **Filter** to return to the filtered **Difference List** and see the desired difference types or click **Cancel** to disregard the selections and close the window.
  NOTE: Differences excluded from the Difference List via the Filter function will still appear in the generated report.

To assign a level to the difference:

- Select a level in the **Level** drop-down box in the **Difference List**. The color-coded level will display in the **Difference List** to the right of the difference.

Level Drop-Down Box in Difference List

To assign a comment to a difference:

- Select a comment in the **Comment** drop-down box or type in a custom comment.

Comment Drop-Down Box in Difference List

To exclude the difference from the report:

- Select the difference in the **Difference List** and click F12.
- The difference will get crossed out in the **Difference List** and the next difference will then be selected. To cancel the exclude, select the difference again and click F11 to include it.
  NOTE: An administrator can configure the Application to force the inclusion of all differences, in which case clicking F12 will not have an effect.

To navigate to the next difference:

- Press the **F11** key, or

- Click on the desired difference in the **Difference List**, or

- Press the DOWN ARROW ↓ key. In each case, the difference will be included in the report.

To navigate to the previous difference:

- Press the UP ARROW ↑ key.

8.4.3   Image Details Panel

The **Image Details** displays image differences during text inspections. Switching between displayed differences is as simple as clicking on a new image difference in the **Difference List**. To assign comments and levels to an image difference, follow the same processes outlined for differences of other types.
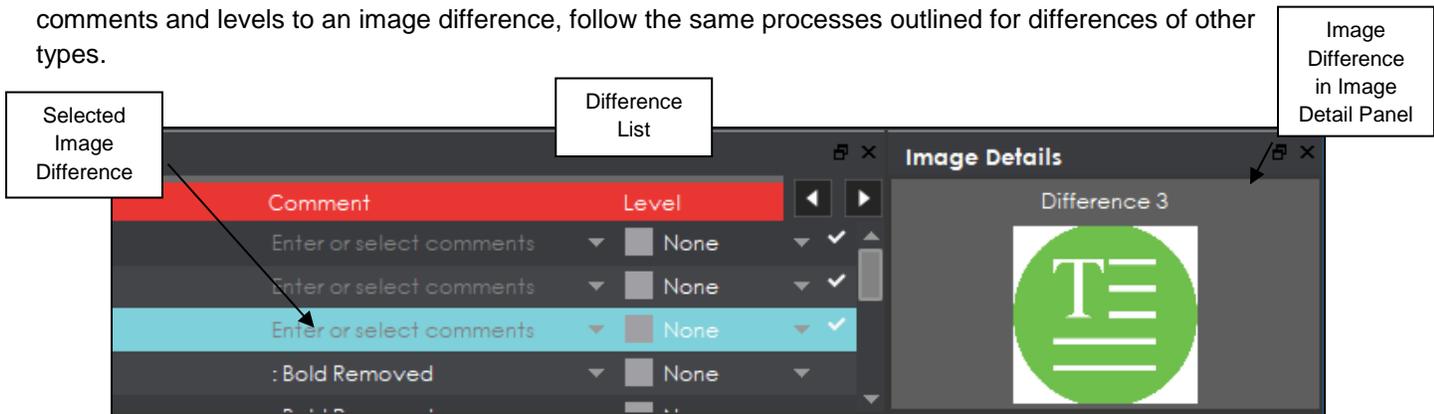
Image Details Panel

NOTE: image differences only display when the **Images** difference type and the **Include Images** comparison option are checked on in the selected profile. None of the default **Text Inspection** profiles have either option checked. Only administrators and managers can create new profiles with these options turned on. For more information, consult the Administration Guide.

8.4.4   Inspections Panel

The Inspection View contains the **Inspections** panel, which lists completed inspections. For example, you may run multiple inspections prior to generating the report. The Application lets you rename the inspections and/ or exclude them from the report.

Inspections Panel

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel and click **Rename**.

- Enter the desired name and click **OK**. The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel and click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The Inspection will not be included in the next generated report.

8.4.5 Master Panel

Unchecking **Master Panel** in the **Layout** drop-down menu hides it from view. The Sample panel will take up the entire Inspection View area as a result. To make the Master re-appear, simply check it again. It is checked by default.

9   Spelling Inspection

Spelling Inspection Mode checks the spelling of a loaded file. The Application verifies the text in the loaded file against any one of 37 different featured languages to help ensure the quality of the copy on both packaging components and collateral. Custom, company-specific terms can be added to any dictionary by administrators, while all documents to be verified are automatically run against an English medical dictionary for increased inspection accuracy.

NOTE: The **Spelling Inspection Mode** ⬇️ icon will only display if the module has been purchased.

9.1   Step-by-Step

This section describes the steps to follow when running a spelling inspection.

1.   Load Files for Spelling Inspection

To inspect spelling in the Master panel:

- Click **File Menu** 📁 → **Load Master** or double-click in the Master panel to launch the load-file window. You can also load a file by using "drag and drop."
- The Master image will load in the Master panel.
- If the file is a PDF:
    - The integrated **PDF Viewer** will display (see Section 3.6 PDF Viewer).
    - Prepare the Master image using the **PDF Viewer** tools, if required.
- Click **Perform Inspection** 🔍 and **t**he results will display in the Inspection View.

To inspect spelling in the Sample panel:

- Click **File Menu** 📁 → **Load Sample** or double-click in the Sample panel and follow the same steps as above.

2.   Ensure the Spelling Inspection Mode Icon ⬇️ Is Selected

3.   Select an Action
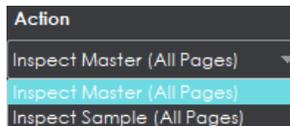
Action Drop-Down Menu

To inspect the file in the Master panel for spelling:

- Click **Action** → **Inspect Master (All Pages)**.

To inspect the file in the Sample panel for spelling:

- Click **Action** → **Inspect Sample (All Pages)**.

4. Select a Language

- Click the **Profile** drop-down menu to access the Application's library of available languages.

Profile Drop-Down Menu

- Select the language that best suits your inspection needs from the drop-down menu.

    NOTE: See Section 12.4 Supported Dictionaries (Spelling Inspection) in the Appendix.

5. Ensure the Proper Inspection Area Is Selected

- Use Master/ Sample tools to crop, rotate the image, etc. See sections 3.3 to 3.6 for more information.

6. Run the Inspection

- Click **Perform Inspection** . The files will be inspected and the differences displayed in the Inspection View.

Inspection View

7. View the Results

To view the inspected file:

- Use the track wheel to zoom in or out.

- Hold the left mouse button and move it around to pan the image.

- To review multiple pages, navigate through them using the **Page Navigation** drop-down menu at the bottom left of the Inspection View.

Page Navigation

8.   Review and Proof the Differences

To select a difference:

- Click on the difference in the **Difference List**.
- It will be highlighted in the Inspection View.

Difference #2 Selected

To assign a level to a difference:

- Select the difference in the **Difference List**. Click the **Level** drop-down box and select the level. The color-coded level will display in the **Difference List** to the right of the difference.
  NOTE: Hot keys (F1 – F5) may be applied to assign levels. Select the difference and click the appropriate "F" key (see below):

KEY	FUNCTION
F1	Reporting level - Critical
F2	Reporting level - Major
F3	Reporting level - Minor
F4	Reporting level - Ignore
F5	Reporting level – None

Levels Assigned Using Difference List

To assign a level to multiple differences:

- Hold down the CTRL key while selecting the differences, click the **Level** drop-down box, and select the level.
  NOTE: On a Mac operating system, to assign a level to multiple differences, hold down the COMMAND and SHIFT keys while selecting the differences, click the Level drop-down box, and select the level.

To remove a level assignment:

- Click the **Level** drop-down box and select **None**. The level will no longer display in the **Difference List**.

To assign comment to a difference:

- Select the difference in the **Difference List**. Click the **Comment** drop-down box in the **Difference List** and select one of the pre-defined comments that appear. The selected comment will display.
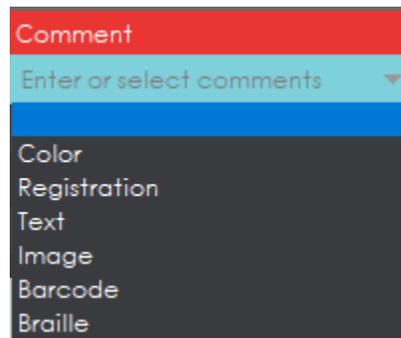
Comment Drop-Down Box in Difference List

To assign a comment to multiple differences:

- Hold down the CTRL key while selecting the differences, click the **Comment** drop-down box, and select the comment.
  NOTE: On a Mac operating system, to assign a comment to multiple differences, hold down the COMMAND and SHIFT keys while selecting the differences, click the **Comment** drop-down box, and select the comment.

To assign a customized comment to a difference:

- Select the difference in the **Difference List**, click the **Comment** drop-down menu in the **Difference Details** panel, select the blank entry at the top, and type in the comment. Click elsewhere for it to take effect.

To delete a comment from a difference:

- Click in the **Comment** drop-down box in the **Difference List** and select the blank entry. Click elsewhere for it to take effect.

To assign a suggested replacement for a difference from the selected dictionary:

- Right-click on a difference and select the desired word that displays in the menu that pops up. It will appear under the **Comment** field in that row.
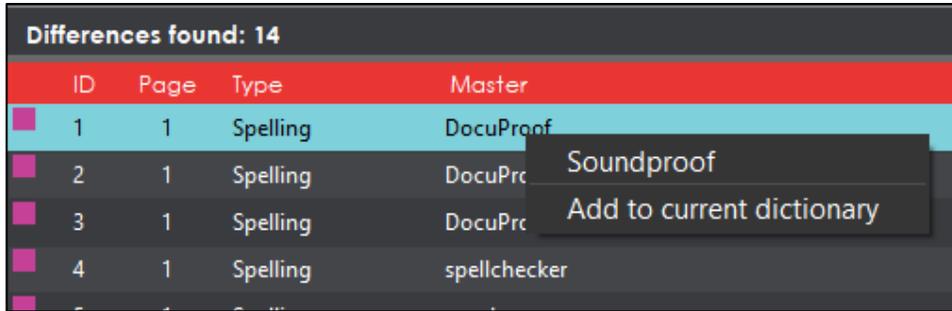
To add a detected spelling mistake to the selected dictionary:

- Right-click on a difference and select **Add to current dictionary**.
- Click **OK** to the confirmation message that appears.
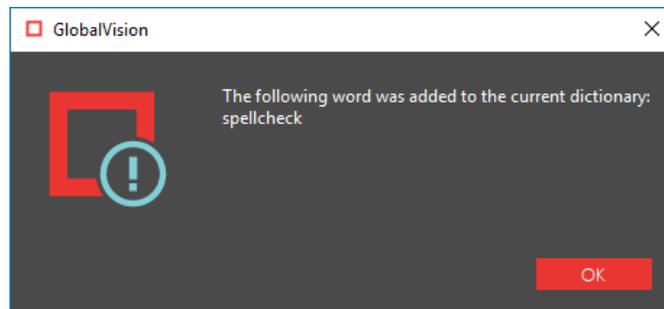
> **NOTE:** All instances of that same spelling mistake will no longer appear as a difference once it has been added and the inspection is re-run.

To exclude a difference:

- Select the difference in the **Difference List** and click F12**.** The difference will be crossed out.

  NOTE: An administrator can configure the Application to force the inclusion of all differences, in which case clicking F12 will not have an effect.

9. Include Inspections in Report

The Application lets you rename inspections and/ or exclude them from the report. This option is available under the **Inspections** panel.

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel.

Inspections Panel

- Click **Rename**.

- Enter the desired name and click **OK**.

- The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The inspection will not be included in the next generated report.

  NOTE: For more information on layouts and the panels available to you, see Section 9.3 Layouts.

10. Generate the Report

- Click the **Generate Report** icon.

- See Section 4.5 Generating Reports for step-by-step instructions.

11. Retain Inspection Results and Run a New Inspection

- Click **Back** . The Main View will display with the Master and Sample images loaded.

- To load new files, follow the steps above.

- Click **Perform Inspection** . The files will be inspected, and the differences will display in the Inspection View. Each subsequent retained inspection will be listed in the **Inspections** panel.

12. Clear Inspection Results and Run a New Inspection

- Click **Reset Interface** . The following message will display, asking if you want to continue:
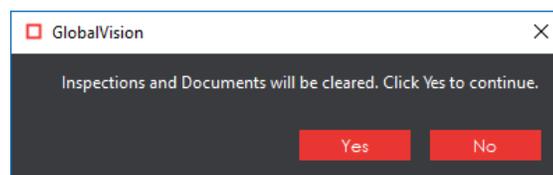
- Click **Yes** to clear inspection results and documents. The Main View will display with the profile on the title bar.

9.2 Spelling Inspection Toolbar

The **Spelling Inspection** toolbar appears above the Inspection View Master panel once a spelling inspection has been run. It contains the following tools:

Spelling Inspection Toolbar

9.2.1 Rotate

To rotate the Master image:

- Click **Rotate** .
- Select **Rotate 90 CW** or **Rotate 90 CCW**.

9.2.2 Color Picker

To display the RGB, CMYK, and LAB color-space information for a selected area in the inspected file:

- Click the **Color Picker** .
- Click an area in the image. The **Color Inspector** window will display the LAB, CMYK, and RGB color-space values of the color at the point selected.
  NOTE: If **Color Inspection Mode** is licensed, a second portion of the Color Inspector window, featuring Pantone-related functionalities, will display too whenever the **Color Picker** is selected. For more information, see Chapter 10 Color Inspection.
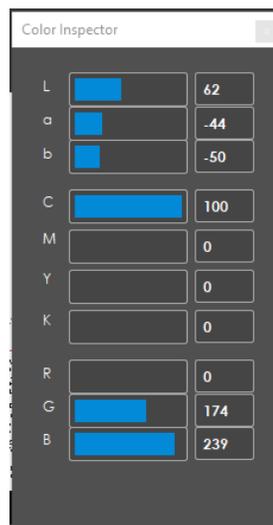
Color Inspector Window

9.2.3 Marquee Zoom

To select an area in the image to magnify:

- Click **Marquee Zoom** .

- Select the area with the crosshairs that appear and the left mouse button or scroll upward with the track wheel.

To reduce the magnification:

- Place the cursor in the Master panel.

- Scroll downward with the track wheel.

To pan:

- Left-click in the Master panel. Hold and move the mouse around the panel.

9.2.4 Reset View

To restore the image to its original size:

- Click **Reset View** .

9.2.5 Save View

To save an image to a file:

- Click the **Save View** icon. The **Save As** window will appear with .tif as the default file type.

- Select the desired file type and storage location and click **Save**.

9.3 Layouts

9.3.1 Creating a Layout

The Inspection View contains panels that let you review the text inspection results. These panels constitute your layout and can be displayed or hidden as required. Layout customization is ideal for multi-monitor configurations, as panels can be placed on separate displays. To view the different layout panels that can be loaded, click **File Menu** → **Layout**.
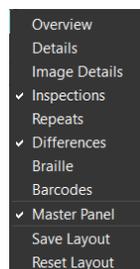
Layout Drop-Down Menu (Spelling Inspection)

To display/ hide the panels:

- Uncheck the panel in the **Layout** drop-down menu or click the **X** in its top-right corner to hide it.

- Check the panel name to display it.

To move a given panel:

- Click its title bar, hold down, and shift it to an area in the margins of your screen shaded in blue.

To save your layout so that it reappears as is upon closing and re-opening the Application:

- Click **Save Layout.**

To reset your layout to the default:

- Click **Reset Layout.**

9.3.2 Difference List

The **Difference List** displays the differences between the Master and Sample files for easy reviewing and proofing. The column headings include the **Difference ID**, **Page**, **Difference Type**, **Master** (the difference as it appears in the Master, **Sample** (the difference as it appears in the Sample), **Comment** drop-down list, and **Level** drop-down list. Click any heading to sort the list based on the contents of that column. By default, the list is sorted by the Difference ID.

Difference List

To select a difference:

- Click it in the **Difference List**.

- It will be highlighted in the Inspection View Master and Sample panels.

Inspection View
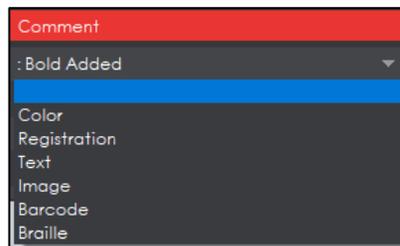
To assign a level to the difference:

- Select a level in the **Level** drop-down box in the **Difference List**. The color-coded level will display in the **Difference List** to the right of the difference.

Level Drop-Down Box in Difference List

To assign a comment to a difference:

- Select a comment in the **Comment** drop-down box or type in a custom comment.

Comment Drop-Down Box in Difference List

To exclude the difference from the report:

- Select the difference in the **Difference List** and click F12.
- The difference will get crossed out in the **Difference List** and the next difference will then be selected. To cancel the exclude, select the difference again and click F11 to include it.
  NOTE: An administrator can configure the Application to force the inclusion of all differences, in which case clicking F12 will not have an effect.

To navigate to the next difference:

- Press the **F11** key, or

- Click on the desired difference in the **Difference List**, or

- Press the DOWN ARROW ↓ key. In each case, the difference will be included in the report.

To navigate to the previous difference:

- Press the UP ARROW ↑ key.
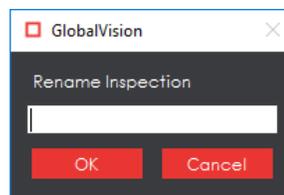
9.3.3 Inspections Panel

The Inspection View contains the **Inspections** panel, which lists completed inspections. For example, you may run multiple inspections prior to generating the report. The Application lets you rename the inspections and/ or exclude them from the report.

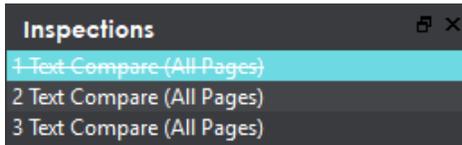**Inspections Panel**

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel and click **Rename**.

- Enter the desired name and click **OK**. The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel and click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.

- The Inspection will not be included in the next generated report.

9.3.4 Master Panel

Toggling the **Master Panel** on/ off in the **Layout** drop-down menu shifts the file from appearing in the Sample panel (regardless of whether it's a master or sample being inspected) to it taking up the entire Inspection View. The latter is the default position (off).

10 Color Inspection

Color Inspection Mode [icon] can measure the color-space information of selected points on a master or sample or compare the color-space information *between* corresponding points on the two files. Points that fall outside of a configurable ΔE tolerance level are detected as differences that require more attention, for the purposes of improving or verifying color accuracy for printers and their customers.

NOTE: The **Color Inspection Mode** [icon] icon is only accessible if the module has been purchased.

10.1 Step-by-Step

This section describes the steps to follow when running a color inspection.

1. **Load Electronic Files (Skip to No. 2 to Load Scanned Files)**

    - Click **File Menu** [icon] → **Load Master** or double-click in the Master panel to select the file to be loaded**.**

      NOTE: Only PDF and TIFF files with embedded ICC profiles are supported by **Color Inspection**.

    - The Master image will load in the Master panel.

    - If the file is a PDF:

        - The integrated **PDF Viewer** will display (see Section 3.6 PDF Viewer).

        - Prepare the Master image using the **PDF Viewer** tools, if required.

    - Click **File Menu** [icon] → **Load Sample** or double-click in the Sample panel to start repeating the process to load sample files.

2. **Load Scanned Files (Skip Over if Electronic Files Loaded)**

    - Click **Scanner Menu** [icon] → **Select Source.**

    - Select the applicable scanner from the **Scanner Selection** window and click **Select.**

Scanner Selection Window

- Click **Scanner Menu** [icon] → **Scan Master** to scan the Master document. Once scanned, the image will load in the Master panel.

- Click **Scanner Menu** [icon] → **Scan Sample** to scan the Sample document. Once scanned, the image will load in the Sample panel.

2. **Ensure the Color Inspection Mode Icon** [icon] **Is Selected.**
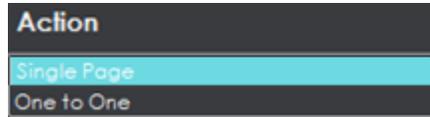
3. **Select an Action**

Action Drop-Down Menu

To compare a single master page to a single sample page or press sheet:

- Set **Action** → **Single Page**.

To compare two individual full pages/ press sheets against one another without looking for repeats to speed up the inspection process:

- Set **Action** → **One to One**.

NOTE: Multi-page files are not supported in **Color Inspection Mode**.

4. **Select Profile (Skip Over if None Exists or Are Needed)**

- Click the **Profile** drop-down menu to access the list of available profiles.
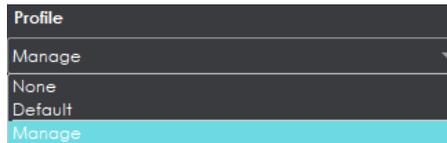
Profile Drop-Down Menu

None is the default profile. Users of any type (standard users, managers, or administrators) can easily create profiles, which consist of collections of points on a master to inspect, just prior to running a color inspection. For more information, see Step 7 Create a Profile (Optional).

5. **Select Colors to Measure (Optional)**

- Click on the Color Picker [icon] icon to launch the **Color Inspector** window.

Color Inspector Window

- Select the applicable Pantone book from the drop-down list of the same name.

  NOTE: To search the selected Pantone book for reference purposes, enter in a value in the prompt directly below the **Pantone Book** drop-down list. The closest Pantone values will display in the field of the same name directly below.

- Select the **Sample size** (1x1 pixel, 2x2, 5x5).

- With the crosshairs that appear when moving the cursor over the Master or Sample, click on a color to display its LAB, CMYK, and RGB values (along with the closest Pantone colors, which will display under the **Closest Pantone Value** heading).

  NOTE: Users can change individual LAB, CMYK, RGB, and Pantone values on the fly in **the Color Inspector** window by clicking and entering in different numbers in any one of the fields in question. The corresponding, converted values for the other color spaces will display upon pressing ENTER.

- Alternatively, click on the **Add color points to inspect** ✐₊ icon and then on points on the Master, each of which will then be listed under the **Color Points** heading, which pops up.

  NOTE: To remove a specific point from under the Color Points heading, click the "X" that appears to its far right, beside the selected ΔE level and sample size.

- Click on the ⬇ icon to launch the **Report Options** window and start the process of generating a report including all the LAB, CMYK, RGB, and Pantone information, bypassing the inspection (comparison) process.

6. **Select Colors to Inspect**

- Click on the **Color Picker** ✐ icon to launch the **Color Inspector** window.

- Select the applicable Pantone book from the drop-down list of the same name.

  NOTE: To search the selected Pantone book for reference purposes, enter in a value in the prompt directly below the **Pantone Book** drop-down list. The closest Pantone values will display in the field of the same name directly below.

- Select the **Sample size** (1x1 pixel, 2x2, 5x5).

- Enter the desired ΔE tolerance in the box of the same name.

- Click on the **Add color points to inspect** ✒️₊ icon and then on different points on the Master to inspect and see if the corresponding points on the Sample image(s) respect the pre-configured ΔE tolerance. The selected points will be listed under the **Color Points** heading that pops up, while the individual LAB, CMYK, RGB and Pantone values display above.

  NOTE: To remove a specific point from under the Color Points heading, click the "X" that appears to its far right, beside the selected ΔE level and sample size.
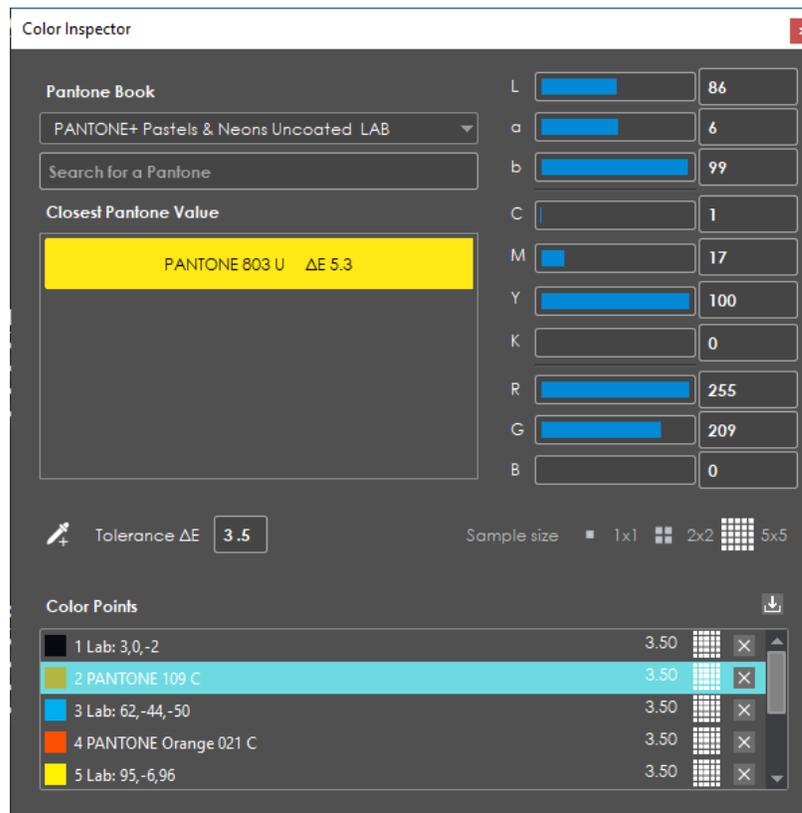
Color Inspector Window with Color Points Heading Displayed

7. **Create a Profile (Optional)**

- Select **Manage** from the **Profile** drop-down list. The **Color Profiles** window displays.
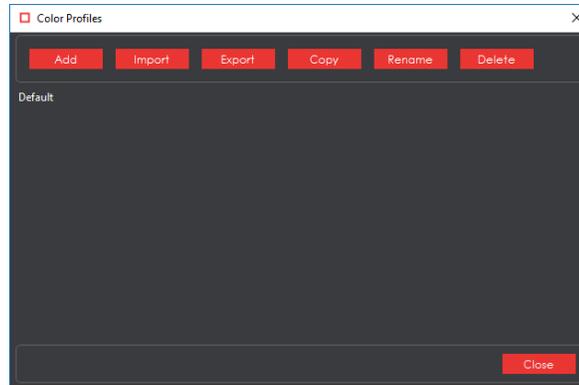
Color Profiles Window

- Click **Add**. A prompt appears, requesting a name.
- Enter the name of the profile and click **OK**.
- Select the profile from the **Profile** drop-down list for the previously selected color points to take effect prior to any subsequent inspection (for repeat jobs with the same Master, for example).

8. Run the Inspection

- Click **Perform Inspection** . The images will be inspected and the differences displayed in the Inspection View Sample panel.

9. View the Results

To view the inspected file:

- Use the track wheel to zoom in or out.

- Hold the left mouse button and move it around to pan the image.

To view a repeat:

- Click on the desired repeat that appears in the **Repeats** panel. It will appear in the Inspection View Sample panel.
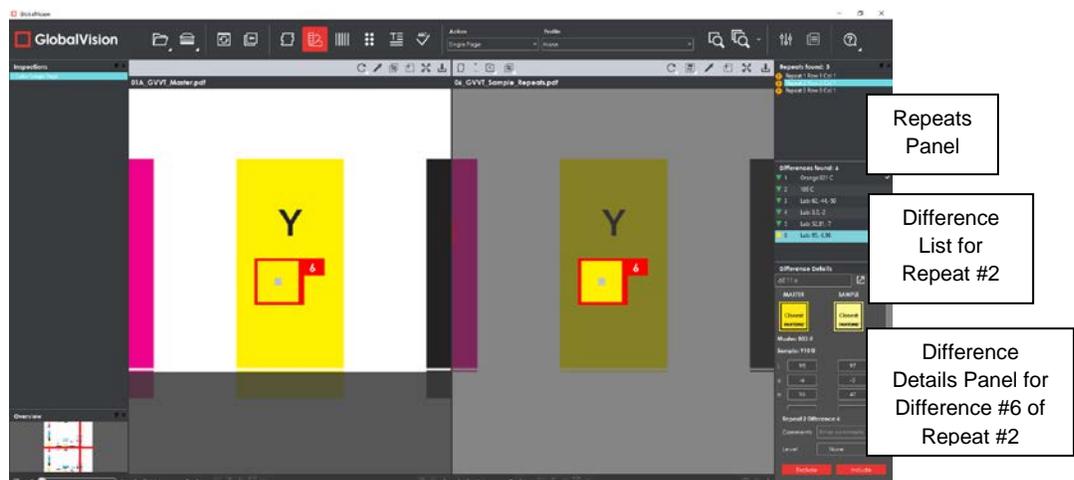
10. Review and Proof the Differences

To select a difference:

- Click on the difference in the **Difference List**.
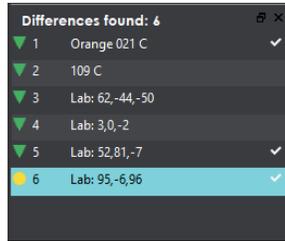
Difference List

- It will be highlighted in the Inspection View.
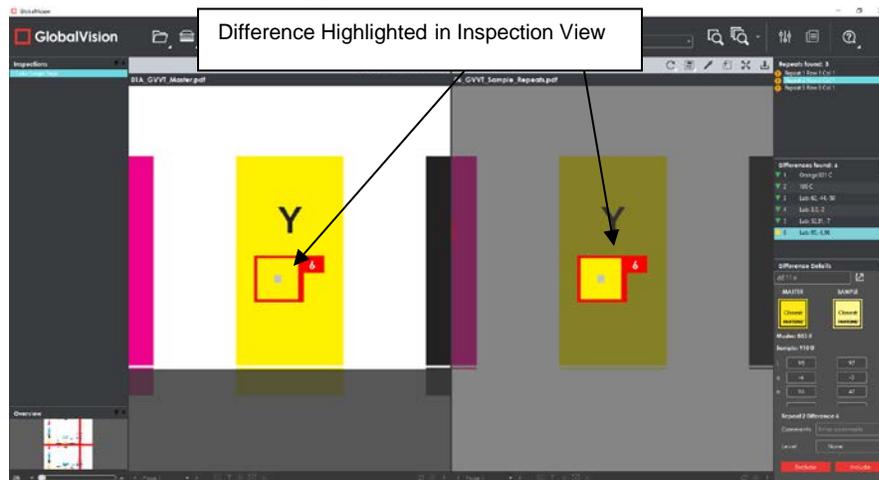
Difference #6 Selected

To assign a level to a difference:

- Select the difference in the **Difference List**. Click the **Level** drop-down box and select the level. **NOTE:** Hot keys (F1 – F5) may be applied to assign levels. Select the difference and click the appropriate "F" key (see below):

KEY	FUNCTION
F1	Reporting level - Critical
F2	Reporting level - Major
F3	Reporting level - Minor
F4	Reporting level - Ignore
F5	Reporting level – None

Level Drop-Down Box in Difference Details Panel

To assign a level to multiple differences:

- Hold down the CTRL key while selecting the differences, click the **Level** drop-down box, and select the level.
  NOTE: On a Mac operating system, to assign a level to multiple differences, hold down the COMMAND and SHIFT keys while selecting the differences, click the Level drop-down box, and select the level.

To remove a level assignment:

- Click the **Level** drop-down box and select **None**. The level will no longer display in the **Difference List**.

To assign comment to a difference:

- Select the difference in the **Difference List**. Click the **Comments** drop-down box and select one of the pre-defined comments that appear. The selected comment will display.

Comments Drop-Down Box in Difference Details Panel

To assign a comment to multiple differences:

- Hold down the CTRL key while selecting the differences, click the **Comment** drop-down box, and select the comment.
  NOTE: On a Mac operating system, to assign a comment to multiple differences, hold down the COMMAND and SHIFT keys while selecting the differences, click the **Comment** drop-down box, and select the comment.

To assign a customized comment to a difference:

- Select the difference in the **Difference List**, click the **Comment** drop-down menu, select the blank entry at the top, and type in the comment. Click elsewhere for it to take effect.

To delete a comment from a difference:

- Click in the **Comment** drop-down box in the **Difference List** and select the blank entry. Click elsewhere for it to take effect.

To exclude a difference:

- Select the difference in the **Difference List** and click F12**.**

  NOTE: An administrator can configure the Application to force the inclusion of all differences, in which case clicking F12 will not have an effect.

11. Include Inspections in Report

The Application lets you rename inspections and/ or exclude them from the report. This option is available under the **Inspections** panel.

To rename the inspection:

- Right-click on the inspection name in the **Inspections** panel.
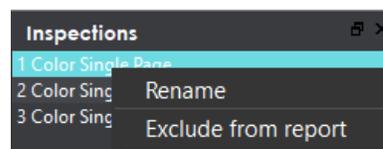
Inspections Panel

- Click **Rename**.

- Enter the desired name and click **OK**.

- The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel.

- Click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel and will not appear in the next generated report.
  NOTE: For more information on layouts and the panels available to you, see Section 10.2 Layouts.

12. Generate the Report

- Click the **Generate Report** icon.

- See Section 4.5 Generating Reports for step-by-step instructions.

13. Retain Inspection Results and Run a New Inspection

- Click **Back** . The Main View will display with the Master and Sample images loaded.
- To load new files, follow the steps above.
- Click **Perform Inspection** . The files will be inspected, and the differences will display in the Inspection View. Each subsequent retained inspection will be listed in the **Inspections** panel.

14. Clear Inspection Results and Run a New Inspection

- Click **Reset Interface** . The following message will display, asking if you want to continue:
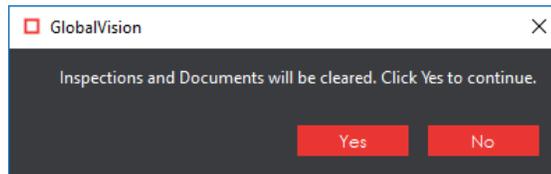
- Click **Yes** to clear inspection results and documents. The Main View will display with the profile on the title bar.

10.2 Layouts

10.2.1 Creating a Layout

The Inspection View contains panels that let you review the text inspection results. These panels constitute your layout and can be displayed or hidden as required. Layout customization is ideal for multi-monitor configurations, as panels can be placed on separate displays. To view the different layout panels

that can be loaded, click **File Menu** → **Layout**.
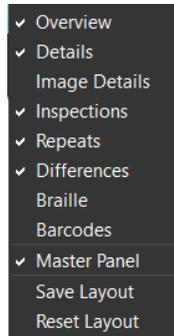
Layout Drop-Down Menu (Color Inspection)

To display/ hide the panels:

- Uncheck the panel name in the **Layout** drop-down menu or click the **X** in the top-right corner of the panel once it has been loaded to hide it.

- Check the panel name to display it.

To move a given panel:

- Click its title bar, hold down, and shift it to one of the areas in the margins of your screen that become shaded in blue.

To save your layout so that it reappears as is upon closing and re-opening the Application:

- Click **Save Layout.**

To reset your layout to the default:

- Click **Reset Layout.**

10.2.2 Overview Panel

The **Overview** panel displays the original Sample image. The difference that is selected is located at the intersection of the two red lines. To zoom in or out of the Sample image in the **Overview** panel:

- Slide the button in the middle of the bar accordingly.
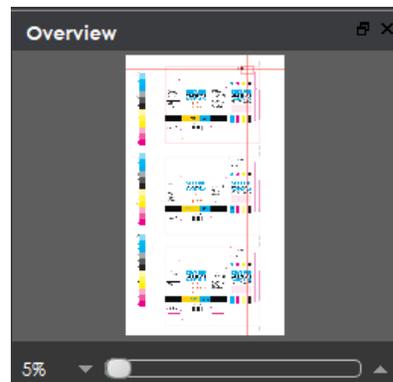
Overview Panel

10.2.3 Repeats Panel

The **Repeats** panels lists the number of repeats of the Master image that were found in the Sample file after the inspection has been run.

To navigate between repeats:

- Click the desired number on the list. The selected repeat will appear in the Sample panel.
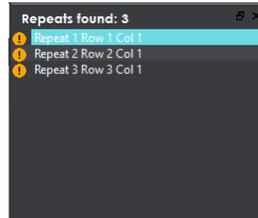
Repeats Panel

10.2.4 Difference List and Details Panels

The **Difference List** displays the differences between the Master and Sample images for easy reviewing and proofing. The **Difference Details** panel lets you assign comments and levels to selected differences and include or exclude them from your report.
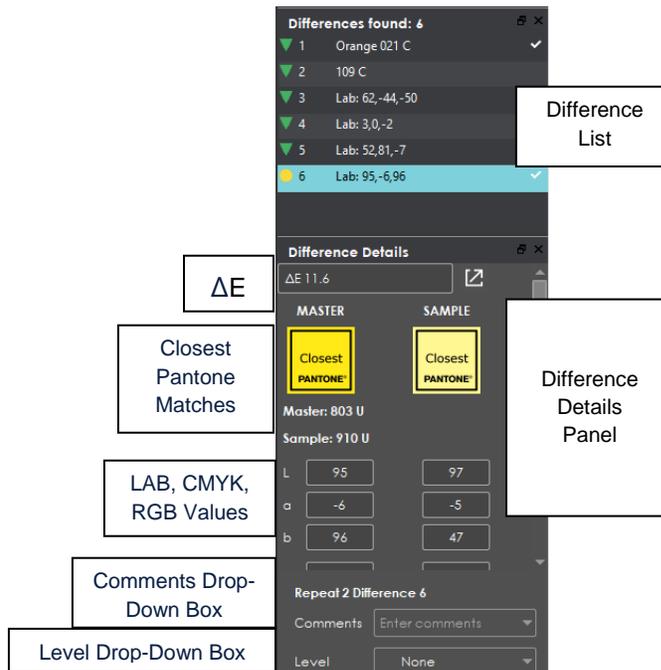
Difference List and Difference Details Panel

To select a difference:

- Click it in the **Difference List**. It will become highlighted and the ΔE, closest Pantone matches, LAB, CMYK, and RGB values for the same point on the Master and Sample will display in the

Difference Details panel. The corresponding difference will be highlighted in the Inspection View Sample panel.

NOTE: To view a list of the closest Pantone matches for the same point on the Master and Sample, click the [↗] icon beside the ΔE value. The **Closest Pantone Matches** window will display.

To assign a level to the difference:

- Select a level in the **Level** drop-down box in the **Difference Details** panel. The color-coded level will display in the **Difference List** to the right of the difference.
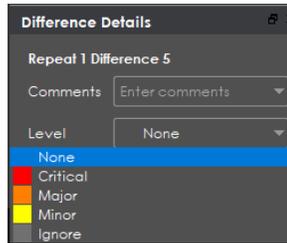
Level Drop-Down Box

To assign a comment to a difference:

- Select a comment in the **Comments** drop-down box or type in a custom comment.
- A sticky-note icon will display in the **Difference List** to the right of the difference, signifying the presence of a comment.

Comments Drop-Down Box

To exclude the difference from the report, assuming **Force inclusion of all differences** has not been checked by an administrator:

- Click **Exclude**.
- The difference will get crossed out in the **Difference List** and the next difference will then be selected. To cancel the exclude, select the difference again and click **Include (F11)**.

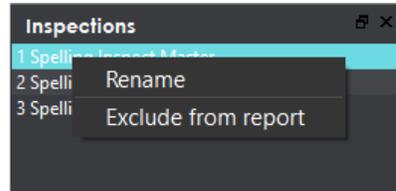To navigate to the next difference:

- Click **Include**, or
- Press the **F11** key, or

- Click on the desired difference in the **Difference List**, or

- Press the DOWN ARROW ↓ key. In each case, the difference will be included in the report.

To navigate to the previous difference:

- Press the UP ARROW ↑ key.
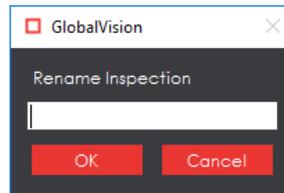
10.2.5 Inspections Panel

The Inspection View contains the **Inspections** panel, which lists completed inspections. For example, you may run multiple inspections prior to generating the report. The Application lets you rename the inspections and/ or exclude them from the report.

To rename the inspection:
- Right-click on the inspection name in the **Inspections** panel and click **Rename**.

- Enter the desired name and click **OK**. The new name will display in the **Inspections** panel.

To exclude the inspection from the report:

- Right-click on the inspection name in the **Inspections** panel and click **Exclude from report**.

- The inspection name will appear crossed out in the **Inspections** panel.
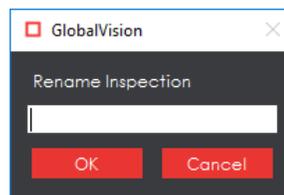
- The Inspection will not be included in the next generated report.

10.2.6 Master Panel

Unchecking **Master Panel** in the **Layout** drop-down menu hides it from view. The Sample panel will take up the entire Inspection View area as a result. To make the Master re-appear, simply check it again. It is checked by default.

11 Frequently Asked Questions

11.1 Passwords

How do I change my password?

- Click **File Menu** 📁 → **Change Password.** The **Password** window will display.
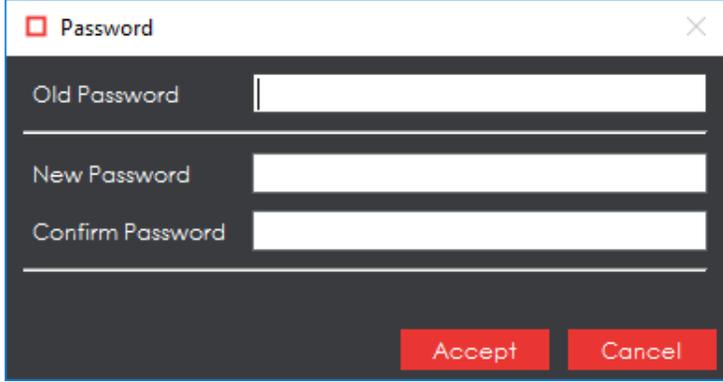
Password Window

- In the **Old Password** text box, enter your current password (or the temporary password that you received with your email, if your account has just been created, for example).

- Enter your new password in the **New Password** text box.

- Enter your new password again in the **Confirm Password** text box.

- Click **Accept** and the "Password Changed" notification window will display. Click **OK**.

11.2 Profiles

What is the difference between a Digital profile and a Proof profile?
A **Digital** profile is used to inspect original artwork created by a graphics department against revised editions. Before the artwork is sent to be printed, it needs to be reviewed, approved, and signed off. During these reviews, changes in the artwork may be requested (revision 01, 02…), i.e., if a word is misspelled, a wrong barcode is used, the color is not right, etc. The **Digital** profile does not use image correction logic such as distortion, rotation, and skew.

A **Proof** profile is used for the inspection of original artwork created by a graphics department against a printer's proof (what the artwork looks like after it is printed). It is also used for the inspection of a printer's proof against the printed hard copy. Once the printer creates a proof, it is sent back to the customer who provided the original artwork to obtain approval before printing. The **Proof** profile uses distortion, rotation, and skew to compensate for changes in the image.

What is the difference between the Same Layouts (Revisions) and the Different Layouts profiles?
GlobalVision Text Inspection mode features two separate "Different Layout" profiles: one for cartons and labels and another for booklets and inserts. **Cartons and Labels** is used to compare two files with different layouts, typically an internally approved master Word doc to the same copy on a laid-out PDF.

The difference is cartons and labels generally have less copy overall and more blocks of fragmented text. **Inserts and Booklets** is used to compare two files with larger blocks of text.

Cartons and Labels uses the template of the same name in its list of profile parameters. **Inserts and Booklets** uses none. **Inserts and Booklets** also uses **Table and Line Processing** with **Advanced Table Logic**, which is switched off for **Cartons and Labels**.

Both profiles have their **Correction level** set to **High** though, which is the biggest difference between the two and the **Same Layout (Revisions)** profile, also for text inspections. As **Same Layout (Revisions)** is used to compare files of the same type and layout (generally for revision purposes), the **Correction level** is set to **Low**. Meanwhile, most difference types are checked to catch even the slightest changes.

11.3 Inspection Results (Graphics)

11.3.1 Cropping

What is the minimum size of an area that I can crop?
The minimum area that you can crop is 100 X 100 pixels.

11.3.2 Repeats

Why are my repeats not found?

The repeats may not have the same orientation as the Master. Click the **Support Rotated Repeats** icon.

I enabled Support Rotated Repeats, but my repeats are still not found. What do I do?
Ask your administrator to change one or more of the following profile parameters:

- Adjust **Find repeating content Similarity**.

- Decrease **Find repeating shapes Similarity**.

11.3.3 Differences

Why are so many differences found?
Specks of dust can be detected as differences. As part of your GMP, ensure that the scanning surface is free of dust prior to scanning your sample. You may also consider adjusting the profile parameters.

I want to ignore registration differences. How can I do that?
Ask your administrator to change one or more of the following profile parameters:

- Increase the **Minimum Detection Size (pixels).**
- Increase the **Maximum Difference Shift (pixels)**.

11.4 Inspection Results (Barcode)

Should I get the same grade results for different DPIs (i.e., 300 DPI vs. 600 DPI)?
You should not expect to get the same grade results when the resolution changes due to image rasterization. The most sensitive grade component in this case is decodability, which measures bar/space ratios against the standard. Changing the DPI resolution may affect decodability.

As an example: At 600 DPI, wide barcode bars may be 10 pixels and narrow bars 5 pixels, resulting in a wide-to-narrow bar ratio of 2. At 300 DPI, wide barcode bars may be 5 pixels and narrow bars 2 or 3 pixels, resulting in a different wide-to-narrow-bar ratio.

For the most part, the decodability grade will remain in the same range. However, it could be better or worse, especially when the narrowest bar is very small (one or two pixels).

In general, higher DPI values produce more accurate grade results, but require additional processing and may prove to be slower.

11.5 Inspection Results (Text)

How does Resync Text work?

Resync Text ⇄ removes an undesired difference or false positive that is an identical match between the Master and Sample from the inspection results. A **Change**, **Insertion**, or **Deletion**-type difference is first selected in both the Master and Sample panels, by either using the **Underline Text** U tool or by right-clicking on the difference in the **Difference List**. Once Resync Text is clicked, the list readjusts, this time without the selected difference.

If non-identical matches are re-synced, the difference stays on the **Difference List**, but gets reclassified as a **Change**-type difference. The individual **Difference List** fields corresponding to the difference will also change to reflect the selections.

11.6 System Limitations

What is the maximum file size that I can load?
You can load master and sample files up to 28" x 40" at 600 DPI in color.

11.7 General Messages

Cannot contact the Login Management Server at Host...

This means connectivity to the Login Management server has been lost. Try launching the Application again. If the problem persists, contact your administrator to verify the connectivity.

The desired DPI for the current profile is set to <DPI value>. Set DPI to <DPI value>?

This means the selected DPI value in **File Menu** 📂 → **Resolution** does not match the **Desired DPI** value in the selected profile.

- Click **Yes** to change the DPI value in **File Menu** → **Resolution** to match the **Desired DPI** value in the selected profile.

- Click **No** to keep the DPI value in **File Menu** → **Resolution**.

- Click **Cancel** to cancel the loading of the file.

Please select a scanner to use. (Print Inspection only)

This means you have selected **Scan Master** or **Scan Sample** before selecting a scanner to use. Click

Scanner Menu → **Select Source** and choose the appropriate device.

Cannot connect to the GlobalVision License Server! Display Licensing dialog

You must be connected to the license server. If you are not sure, contact your administrator.

There is not enough physical memory available… Do you want to continue with disk swapping?

The inspection requires more physical memory than is available. You need to ensure that your system meets or exceeds the recommended amount of memory to run the Application. In cases where the required memory slightly exceeds the available memory, virtual memory can be used.

If you want to continue with disk swapping:

- Close all programs that are not being used.

- Click **Yes**. The inspection will continue but take longer to complete.

If you do not want to continue with disk swapping:

- Click **No** to cancel the inspection.

11.8 Braille Inspection Messages

When the Application fails to detect a suitable Braille region (Compare), the following message will display with possible issues to be resolved:

Failed to detect a suitable Braille region. Please verify that the proper standards and guidelines are followed.
Master File:
Braille dots follow proper standards and guidelines.
- File is original artwork.
- Braille dots are on the top most layer.
- Braille dots are solid filled dots.
- Braille dots are a unique color.
- Braille dots spacing should follow Marburg Medium standards.
Sample File:
- Embossed compare requires a backside scan of the sample to compare against a master PDF.

When the Application fails to detect a suitable Braille region (Compare – Glue Dots), the following message will display with possible issues to be resolved:

Failed to detect a suitable Braille region. Please verify that the proper standards and guidelines are followed.
Master File:
Braille dots follow proper standards and guidelines.
- File is original artwork.
- Braille dots are on the top most layer.
- Braille dots are solid filled dots.
- Braille dots are a unique color.
- Braille dots spacing should follow Marburg Medium standards.
Sample File:
- Glue dots compare requires 2 front side scans of the sample to compare against a master PDF.

12 Appendix

12.1 Profiles

Different inspection algorithms are used depending on the selected profile, as determined by the type of files inspected. In addition, each profile has parameters that alter the way the inspection algorithm perceives and reports differences. So, it is important the correct profile be selected for the best results.

The Application is installed with the default profiles listed in the tables below as well as default parameter values. Administrators and managers can add, rename, and delete profiles and modify individual parameter values. For more information, consult the Administration Guide.

12.1.1 Digital Profile Default Parameters (Graphics Inspection)

A **Digital** profile is used for the inspection of electronic original artwork created by a graphics department against their revised editions. Before the artwork is sent to a printer to be printed, it needs to be reviewed, approved, and signed off. During these reviews, changes in the artwork may be requested (revision 01, 02…), i.e., if a word is misspelled, a wrong barcode is being used, the color is not right, etc. The following table lists the parameters and default values of the **Digital** profile:

PARAMETER	VALUE	DESCRIPTION
General		
Difference grouping (pixels)	22	The radius for grouping differences together (0 to 999)
Desired DPI	300	The optimum DPI for the profile (32 to 1200)
Text		
Low contrast	Checked	Enable the inspection and detection of text areas that have low-contrasting colors
Minimum detection size (pixels)	1	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	115	Determine the sensitivity to detect differences (1 to 254) **NOTE**: Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	0	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	0	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)

PARAMETER	VALUE	DESCRIPTION
High contrast	Checked	Enable the inspection and detection of text areas that have high-contrasting colors
Minimum detection size (pixels)	2	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	5	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	120	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	0	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	0	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
Artwork		
Low contrast	Checked	Enables the detection and inspection of artwork that contains low-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	10	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	2	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	120	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	0	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	0	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
High contrast	Checked	Enables the detection and inspection of artwork that contains high-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected

PARAMETER	VALUE	DESCRIPTION
Minimum detection size (pixels)	2	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	5	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	140	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	0	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	0	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
Color		
Enhanced color detection	Unchecked	Parameters for color inspection
Minimum detection size (pixels)	1000	Ignore differences detected below this value (0 to 9999999)
Sensitivity	217	Determine the sensitivity to detect differences (0 to 225) **NOTE:** Must consider the difference grouping value
Repeat Detection		
Find repeating shapes	35	The shape similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)
Find repeating content	85	The content similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)
Advanced		
Ignore edges (pixels)	0	Used in conjunction with Shape Extraction; Increases the mask area along the outer die lines of the Master to eliminate crease differences from being detected on the sample (-125 to 125)
Mask creases (pixels)	0	Used in conjunction with Shape Extraction; Increases the mask area along the inner die lines of the Master to eliminate crease differences from being detected on the sample (0 to 125)

PARAMETER	VALUE	DESCRIPTION
Correct distortion, rotation and skew	Unchecked	Automatically compensates for the angular misalignment between the Master and Sample images
Image padding	Unchecked	Adds padding around the sample image to aid in shape/ repeat detection of scans

12.1.2 Len Profile Default Parameters (Graphics Inspection)

A **Len** profile is used to inspect and compare Run Length Encoding bitmap files and catch plating errors prior to the start of print jobs. The following table lists the parameters and default values of the **Len** profile:

PARAMETER	VALUE	DESCRIPTION
General		
Difference grouping (pixels)	50	The radius for grouping differences together (0 to 999)
Desired DPI	300	The optimum DPI for the profile (32 to 1200)
Text		
Low contrast	Unchecked	Enable the inspection and detection of text areas that have low-contrasting colors
Minimum detection size (pixels)	1	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	115	Determine the sensitivity to detect differences (1 to 254) **NOTE**: Must consider the difference grouping value
High contrast	Unchecked	Enable the inspection and detection of text areas that have high-contrasting colors
Minimum detection size (pixels)	1	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	5	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	120	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value

PARAMETER	VALUE	DESCRIPTION
Artwork		
Low contrast	Unchecked	Enables the detection and inspection of artwork that contains low-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	1	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	254	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
High contrast	Checked	Enables the detection and inspection of artwork that contains high-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	0	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	230	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	0	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	0	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
Color		
Enhanced color detection	Unchecked	Parameters for color inspection
Minimum detection size (pixels)	1030	Ignore differences detected below this value (0 to 9999999)
Sensitivity	217	Determine the sensitivity to detect differences (0 to 225) **NOTE:** Must consider the difference grouping value

PARAMETER	VALUE	DESCRIPTION
Repeat Detection		
Find repeating shapes	15	The shape similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)
Find repeating content	85	The content similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)
Advanced		
Ignore edges (pixels)	5	Used in conjunction with Shape Extraction; Increases the mask area along the outer die lines of the Master to eliminate crease differences from being detected on the sample (-125 to 125)
Mask creases (pixels)	0	Used in conjunction with Shape Extraction; Increases the mask area along the inner die lines of the Master to eliminate crease differences from being detected on the sample (0 to 125)
Correct distortion, rotation and skew	Unchecked	Automatically compensates for the angular misalignment between the Master and Sample images
Image padding	Unchecked	Adds padding around the sample image to aid in shape/ repeat detection of scans

12.1.3 Proof Profile Default Parameters (Graphics Inspection)

A **Proof** profile is used for the inspection of electronic original artwork created by a graphics department against a printer's proof (what the artwork looks like after it is printed). It is also used to inspect a printer's proof against the printed hard copy. Once the printer creates a proof, it is sent back to the customer who provided the original artwork to obtain approval before printing. A **Proof** profile uses distortion, rotation, and skew to compensate for changes in the image. The following table lists the parameters and default values of the **Proof** profile:

PARAMETER	VALUE	DESCRIPTION
General		
Difference grouping (pixels)	50	The radius for grouping differences together (0 to 999)
Desired DPI	300	The optimum DPI for the profile (32 to 1200)
Text		
Low contrast	Checked	Enable the inspection and detection of text areas that have low-contrasting colors

PARAMETER	VALUE	DESCRIPTION
Minimum detection size (pixels)	1	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	25	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	1	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	0	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
High contrast	Checked	Enable the inspection and detection of text areas that have high-contrasting colors
Minimum detection size (pixels)	1	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	160	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	5	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	5	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
Artwork		
Low contrast	Checked	Enables the detection and inspection of artwork that contains low-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	10	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)

PARAMETER	VALUE	DESCRIPTION
Sensitivity	40	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	2	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	2	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
High contrast	Checked	Enables the detection and inspection of artwork that contains high-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	10	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	40	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	2	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	2	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
Color		
Enhanced color detection	Checked	Parameters for color inspection
Minimum detection size (pixels)	1000	Ignore differences detected below this value (0 to 9999999)
Sensitivity	120	Determine the sensitivity to detect differences (0 to 225) **NOTE:** Must consider the difference grouping value
Repeat Detection		
Find repeating shapes	35	The shape similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)

PARAMETER	VALUE	DESCRIPTION
Find repeating content	85	The content similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)
Advanced		
Ignore edges (pixels)	0	Used in conjunction with Shape Extraction; Increases the mask area along the outer die lines of the Master to eliminate crease differences from being detected on the sample (-125 to 125)
Mask creases (pixels)	0	Used in conjunction with Shape Extraction; Increases the mask area along the inner die lines of the Master to eliminate crease differences from being detected on the sample (0 to 125)
Correct distortion, rotation and skew	Checked	Automatically compensates for the angular misalignment between the Master and Sample images
Image padding	Unchecked	Adds padding around the sample image to aid in shape/ repeat detection of scans

12.1.4 Digital to Scan Profile Default Parameters (Print Inspection)

A **Digital to Scan** profile is used to compare electronic original artwork against a scanned copy. The following table lists the default values of the **Digital to Scan** profile, which features parameters applicable to print inspections:

PARAMETER	VALUE	DESCRIPTION
General		
Difference grouping (pixels)	50	The radius for grouping differences together (0 to 999)
Desired DPI	300	The optimum DPI for the profile (32 to 1200)
Text		
Low contrast	Checked	Enable the inspection and detection of text areas that have low-contrasting colors
Minimum detection size (pixels)	1	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)

PARAMETER	VALUE	DESCRIPTION
Sensitivity	85	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	2	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	3	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
High contrast	Checked	Enable the inspection and detection of text areas that have high-contrasting colors
Minimum detection size (pixels)	1	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	5	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	130	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	2	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	3	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
Artwork		
Low contrast	Checked	Enables the detection and inspection of artwork that contains low-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	10	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	40	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value

PARAMETER	VALUE	DESCRIPTION
Reduce image noise and imperfections correction level (under Advanced)	2	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	2	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
High contrast	Checked	Enables the detection and inspection of artwork that contains high-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	10	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	40	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	2	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	2	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
Color		
Enhanced color detection	Unchecked	Parameters for color inspection
Minimum detection size (pixels)	1000	Ignore differences detected below this value (0 to 9999999)
Sensitivity	120	Determine the sensitivity to detect differences (0 to 225) **NOTE:** Must consider the difference grouping value
Repeat Detection		
Find repeating shapes	35	The shape similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)
Find repeating content	85	The content similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)

PARAMETER	VALUE	DESCRIPTION
Advanced		
Ignore edges (pixels)	10	Used in conjunction with Shape Extraction; Increases the mask area along the outer die lines of the Master to eliminate crease differences from being detected on the sample (-125 to 125)
Mask creases (pixels)	3	Used in conjunction with Shape Extraction; Increases the mask area along the inner die lines of the Master to eliminate crease differences from being detected on the sample (0 to 125)
Correct distortion, rotation and skew	Checked	Automatically compensates for the angular misalignment between the Master and Sample images
Image padding	Unchecked	Adds padding around the sample image to aid in shape/ repeat detection of scans

12.1.5 Scan-to-Scan Profile Default Parameters (Print Inspection)

A **Scan-to-Scan** profile is used for the inspection of electronic original artwork against a scanned copy. It is also used for the inspection of a scanned master against a scanned sample. The following table lists its parameters and default values:

PARAMETER	VALUE	DESCRIPTION
General		
Difference grouping (pixels)	30	The radius for grouping differences together (0 to 999)
Desired DPI	300	The optimum DPI for the profile (32 to 1200)
Text		
Low contrast	Unchecked	Enable the inspection and detection of text areas that have low-contrasting colors
Minimum detection size (pixels)	2	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	40	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	70	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
High contrast	Unchecked	Enable the inspection and detection of text areas that have high-contrasting colors

PARAMETER	VALUE	DESCRIPTION
Minimum detection size (pixels)	2	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	40	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	130	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Artwork		
Low contrast	Checked	Enables the detection and inspection of artwork that contains low-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	2	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	70	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value
Reduce image noise and imperfections correction level (under Advanced)	1	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	3	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
High contrast	Checked	Enables the detection and inspection of artwork that contains high-contrasting colors **NOTE:** If text processing is not enabled, the whole area will be inspected
Minimum detection size (pixels)	2	Ignore differences detected below this value (0 to 9999999)
Maximum difference shift (pixels)	0	Maximum allowable tolerance before an item is classified as a difference (0 to 9999999)
Sensitivity	130	Determine the sensitivity to detect differences (1 to 254) **NOTE:** Must consider the difference grouping value

PARAMETER	VALUE	DESCRIPTION
Reduce image noise and imperfections correction level (under Advanced)	1	Reduces noise within an image to produce a less pixilated image (0 to 20) **NOTE:** A higher Image Noise Reduction value may inhibit difference detection
Correct text kerning and image shift correction level (under Advanced)	3	Divides the Master and Sample into smaller boxes to realign the images and compensate for the shift (0 to 5)
Color		
Enhanced color detection	Unchecked	Parameters for color inspection
Minimum detection size (pixels)	100	Ignore differences detected below this value (0 to 9999999)
Sensitivity	215	Determine the sensitivity to detect differences (0 to 225) **NOTE:** Must consider the difference grouping value
Repeat Detection		
Find repeating shapes	35	The shape similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (5 to 99)
Find repeating content	95	The content similarity between repeats, with higher values indicating stricter search parameters in finding exact matches (0 to 99)
Advanced		
Ignore edges (pixels)	0	Used in conjunction with Shape Extraction; Increases the mask area along the outer die lines of the Master to eliminate crease differences from being detected on the sample (-125 to 125)
Mask creases (pixels)	0	Used in conjunction with Shape Extraction; Increases the mask area along the inner die lines of the Master to eliminate crease differences from being detected on the sample (0 to 125)
Correct distortion, rotation, and skew	Checked	Automatically compensates for the angular misalignment between the Master and Sample images
Image padding	Unchecked	Adds padding around the sample image to aid in shape/ repeat detection of scans

12.1.6 Default Profile Default Parameters (Barcode Inspection)

Barcode Inspection Mode examines an image for barcodes, decodes barcodes, and detects the barcode grade. The following table lists the parameters and default values of the **Default** profile:

PARAMETER	VALUE	DESCRIPTION
General		
Enable red light simulation	Checked	Enable/ disable red light simulation when converting RGB images
Smooth filter	None	Enable/ disable smoothing input image with Gaussian filter (None, 1x, 2x)
Median filter	None	Enable/ disable filtering input image with Median filter to remove noise (None, 1x, 2x)
Open filter	None	Enable/ disable filtering input image with Open filter to remove small light noise (None, 1x, 2x)
Close filter	None	Enable/ disable filtering input image with Close filter to remove small dark noise (None, 1x, 2x)
Resolution (Measurements)	300	Resolution used to compute measurements; Higher values lead to more accurate results, but slower computation speed (300, 400, 600, 800, 1200, 1800, 2400)
Linear		
Process	Checked	Enable/ disable detection of 1D barcodes
Scan gap horizontal (pixel columns)	2	Horizontal scan gap between columns in a linear barcode; The higher the value, the faster and less accurate the detection (0 to 32)
Scan gap vertical (pixel rows)	2	Vertical scan between rows in a linear barcode; The higher the value, the faster and less accurate the detection (0 to 32)
Minimum score	5	Quality of 1D barcode recognition; If too low, false positives may be detected; If too high, some barcodes may be missed (0 to 100)
Min. Pharma. W (pixels)	20	Minimum width in a Laetus Pharma code symbol to be readable (4 to 600)
Min. Pharma. H (pixels)	20	Minimum height in a Laetus Pharma code symbol to be readable (4 to 200)
Min. Pharma. Bars	4	Minimum number of bars in a Laetus Pharma code symbol to be readable (2 to 16)
Min. vicinity hor. (pixels)	64	Minimum horizontal distance to merger two similar barcodes (1 to 1000)
Min. vicinity ver. (pixels)	76	Minimum vertical distance to merge two similar barcodes (1 to 1000)

PARAMETER	VALUE	DESCRIPTION
Edge Threshold	40	Minimum transition value between a bar and a space; Low values for high-contrasted transitions and high values for low-contrasted transitions (1 to 100)
Max. Pharma. W (pixels)	600	Maximum width in a Laetus Pharma code symbol to be readable (70 to 1000)
Max. Pharma. H (pixels)	200	Maximum height in a Laetus Pharma code symbol to be readable (40 to 1000)
Ignore quiet zone	Unchecked	Enable/ disable verification of quiet zones for barcodes that require them
Support rotation	Unchecked	Enable detection of rotated barcodes with non-90-degree angles
Support Negative Barcodes	Unchecked	Enable detection of inverted barcodes
Ignore checksum	Unchecked	Enable/ disable checksum verification for UPC/ EAN barcodes
Include in Grading: Data Structure	Unchecked	Include Data Structure in the grading
Include in Grading: Quiet Zone	Unchecked	Include Quiet Zone in the grading
Include in Grading: Narrow Bar	Unchecked	Include Narrow Bar in the grading
Include in Grading: Wide to Narrow Ratio	Unchecked	Include Wide-to-Narrow Ratio in the grading
Fail Grading if BWR out of specified range	Unchecked	Fail the grading if Bar Width Reduction is out of specified range (adjustable with minimum BWR set at -0.10 and maximum BWR set at 0.10 by default)
Linear Types		
UPC	Checked	
EAN	Checked	
Interleaved	Checked	
GS1 Databar	Checked	
Codabar	Checked	
Code 11	Checked	
Code 32	Unchecked	
Code 39	Checked	
Code 93	Checked	
Code 128/ GS1 128	Checked	
MSI	Checked	
Telepen	Checked	

PARAMETER	VALUE	DESCRIPTION
Laetus Pharma code	Checked	
Data Matrix		
Process	Checked	Enable/ disable detection of data matrix barcodes
Max. expected symbols	3	Maximum number of data matrix barcodes that can be detected in an inspection; The higher the value, the slower the detection (1 to 100)
Scan gap (pixel columns)	8	Horizontal scan gap when detecting data matrix barcodes; The higher the value, the faster and less accurate the detection (0 to 32)
Locator effort level	1	Detection algorithm complexity level; The higher the value, the slower and more accurate the detection (1 to 10)
Edge threshold	10	Minimum transition value between a light and a dark module; Low values for low-contrasted transitions and high values for high-contrasted transitions (1 to 100)
Min. module size (pixels)	4	Minimum data matrix cell size (1 to 100)
Max. symbol size (pixels)	600	Maximum data matrix size (1 to 2000)
Max. skew angle (degrees)	15	Maximum data matrix skew angle (0 to 90)
Grade NON ISO parameters	Unchecked	Enable the grading of non-ISO parameters
QR		
Process	Checked	Enable/ disable detection of QR and micro QR barcodes
Scan gap hor. (pixel columns)	2	Horizontal scan gap when detecting QR and micro QR barcodes; The higher the value, the faster and less accurate the detection (0 to 32)
Scan gap ver. (pixel rows)	2	Vertical scan gap when detecting QR and micro QR barcodes; The higher the value, the faster and less accurate the detection (0 to 32)
Minimum score	5	Quality of QR and micro QR barcode recognition; If too low, false positives may be detected; If too high, some barcodes may be missed (0 to 100)
Edge threshold	40	Minimum transition value between a light and a dark module; Low values for high-contrasted transitions and high values for low-contrasted transitions (1 to 100)
Grade NON ISO parameters	Unchecked	Enable the grading of non-ISO parameters

12.1.7 Rotated Profile Default Parameters (Barcode Inspection)

The **Rotated** profile supports the verification of rotated barcodes. The only difference between the **Default** and Rotated profiles is how the **Support Rotation** parameter is toggled. It is set to checked here:

PARAMETER	VALUE	DESCRIPTION
General		
Enable red light simulation	Checked	Enable/ disable red light simulation when converting RGB images
Smooth filter	None	Enable/ disable smoothing input image with Gaussian filter (None, 1x, 2x)
Median filter	None	Enable/ disable filtering input image with Median filter to remove noise (None, 1x, 2x)
Open filter	None	Enable/ disable filtering input image with Open filter to remove small light noise (None, 1x, 2x)
Close filter	None	Enable/ disable filtering input image with Close filter to remove small dark noise (None, 1x, 2x)
Resolution (Measurements)	300	Resolution used to compute measurements; Higher values lead to more accurate results, but slower computation speed (300, 400, 600, 800, 1200, 1800, 2400)
Linear		
Process	Checked	Enable/ disable detection of 1D barcodes
Scan gap hor. (pixel columns)	2	Horizontal scan gap between columns in a linear barcode; The higher the value, the faster and less accurate the detection (0 to 32)
Scan gap ver. (pixel rows)	2	Vertical scan between rows in a linear barcode; The higher the value, the faster and less accurate the detection (0 to 32)
Minimum score	5	Quality of 1D barcode recognition; If too low, false positives may be detected; If too high, some barcodes may be missed (0 to 100)
Min. Pharma. W (pixels)	20	Minimum width in a Laetus Pharma code symbol to be readable (4 to 600)
Min. Pharma. H (pixels)	20	Minimum height in a Laetus Pharma code symbol to be readable (4 to 200)
Min. Pharma. Bars	4	Minimum number of bars in a Laetus Pharma code symbol to be readable (2 to 16)
Min. vicinity hor. (pixels)	64	Minimum horizontal distance to merger two similar barcodes (1 to 1000)

PARAMETER	VALUE	DESCRIPTION
Min. vicinity ver. (pixels)	76	Minimum vertical distance to merge two similar barcodes (1 to 1000)
Edge threshold	40	Minimum transition value between a bar and a space; Low values for high-contrasted transitions and high values for low-contrasted transitions (1 to 100)
Max. Pharma. W (pixels)	600	Maximum width in a Laetus Pharma code symbol to be readable (70 to 1000)
Max. Pharma. H (pixels)	200	Maximum height in a Laetus Pharma code symbol to be readable (40 to 1000)
Ignore quiet zone	Unchecked	Enable/ disable verification of quiet zones for barcodes that require them
Support rotation	Checked	Enable detection of rotated barcodes with non-90-degree angles
Support Negative Barcodes	Unchecked	Enable detection of inverted barcodes
Ignore checksum	Unchecked	Enable/ disable checksum verification for UPC/EAN barcodes
Include in Grading: Data Structure	Unchecked	Include Data Structure in the grading
Include in Grading: Quiet Zone	Unchecked	Include Quiet Zone in the grading
Include in Grading: Narrow Bar	Unchecked	Include Narrow Bar in the grading
Include in Grading: Wide to Narrow Ratio	Unchecked	Include Wide-to-Narrow Ratio in the grading
Fail Grading if BWR out of specified range	Unchecked	Fail the grading if Bar Width Reduction is out of specified range (adjustable with minimum BWR set at -0.10 and maximum BWR set at 0.10 by default)
Linear Types		
UPC	Checked	
EAN	Checked	
Interleaved	Checked	
GS1 Databar	Checked	
Codabar	Checked	
Code 11	Checked	
Code 32	Unchecked	
Code 39	Checked	
Code 93	Checked	
Code 128/ GS1 128	Checked	
MSI	Checked	

PARAMETER	VALUE	DESCRIPTION
Telepen	Checked	
Laetus Pharma code	Checked	
Data Matrix		
Process	Checked	Enable/ disable detection of data matrix barcodes
Max. expected symbols	3	Maximum number of data matrix barcodes that can be detected in an inspection; The higher the value, the slower the detection (1 to 100)
Scan gap (pixel columns)	8	Horizontal scan gap when detecting data matrix barcodes; The higher the value, the faster and less accurate the detection (0 to 32)
Locator effort level	1	Detection algorithm complexity level; The higher the value, the slower and more accurate the detection (1 to 10)
Edge threshold	10	Minimum transition value between a light and a dark module; Low values for low-contrasted transitions and high values for high-contrasted transitions (1 to 100)
Min. module size (pixels)	4	Minimum data matrix cell size (1 to 100)
Max. symbol size (pixels)	600	Maximum data matrix size (1 to 2000)
Max. skew angle (degrees)	15	Maximum data matrix skew angle (0 to 90)
Grade NON ISO parameters	Unchecked	Enable the grading of non-ISO parameters
QR		
Process	Checked	Enable/ disable detection of QR and micro QR barcodes
Scan gap hor. (pixel columns)	2	Horizontal scan gap when detecting QR and micro QR barcodes; The higher the value, the faster and less accurate the detection (0 to 32)
Scan gap ver. (pixel rows)	2	Vertical scan gap when detecting QR and micro QR barcodes; The higher the value, the faster and less accurate the detection (0 to 32)
Minimum score	5	Quality of QR and micro QR barcode recognition; If too low, false positives may be detected; If too high, some barcodes may be missed (0 to 100)
Edge threshold	40	Minimum transition value between a light and a dark module; Low values for high-contrasted transitions and high values for low-contrasted transitions (1 to 100)
Grade NON ISO parameters	Unchecked	Enable the grading of non-ISO parameters

12.1.8 Different Layout (Cartons and Labels) Profile Default Parameters (Text Inspection)

Similar to the **Inserts and Booklets** profile, **Cartons and Labels** is used to compare two files with different layouts, typically an internally approved master Word doc to the same copy on a laid-out PDF. The difference is cartons and labels generally have less copy overall and more blocks of fragmented text. **Table and Line Processing** is unchecked as a result, with a slight variation to the types of differences detected. Relative to the **Same Layouts (Revisions)** profile, there are some key differences. Here, the **Correction Level** is set to **High** and **Automatic Resync** is checked. The following table lists the profile's parameters and default values:

PARAMETER	VALUE	DESCRIPTION
Difference Types		
Insertion	Checked	Show insertion differences (inserted text)
Deletion	Checked	Show deletion differences (deleted text)
Change	Checked	Show change differences (matching text strings changed without regard to any one specific difference type)
Color	Unchecked	Show color differences (text with different color)
Space	Checked	Show space differences (inserted space vs. no space)
Hyphen	Checked	Show hyphen differences (hyphenated vs. non-hyphenated text)
Mismatch	Unchecked	Show reading order differences (corresponding insertion and deletion differences re-categorized as one reading-order difference)
Italic	Checked	Show italic differences (italic vs. non-italic text)
Bold	Checked	Show bold differences (bold vs. non-bold text)
Underline	Unchecked	Show underline differences (underlined vs. non-underlined text)
Subscript/Superscript	Checked	Show sub and superscript differences (sub/ superscripted vs. non-sub/ superscripted text)
Line Break Space	Unchecked	Show end-of-line spaces as differences (line-break space inserted between characters vs. no-line-break space)
Images	Unchecked	Show differences between images (with Include Images under Advanced enabled)

PARAMETER	VALUE	DESCRIPTION
Location	Checked	Show text location differences (moved text)
Case	Checked	Show case differences (upper-case/ lower-case changes)
Font Type	Unchecked	Show changes in the font as differences (text with different font name)
Size	Unchecked	Show differences in character sizes if they are greater than the specified value (configurable under Advanced)
Min Font Point Size	Unchecked	Show instances when the font falls below the minimum font point size (configurable under Advanced) as differences
Languages		
Process text as Left to Right	Checked	Sets the text directionality. Enable for any left-to-right languages such as French, English, Italian, etc.
Process text as Right to Left	Unchecked	Sets the text directionality. Enable for any right-to-left languages such as Arabic, Hebrew, Farsi, etc.
Process text as Asian	Unchecked	Enable Asian language processing to prevent words split by very small spaces from being detected as more than one
Correction Level		
Low	Unchecked	Select for files that have good reading order or for revisions
Medium	Unchecked	Select for files with repetitive text
High	Checked	Select when inspecting cartons, artwork files, leaflets, or files with many columns or tables; Avoid for files with repetitive text
Templates		
None	Unchecked	No template inspection
Carton/label	Checked	Enable for automatic QRD template inspection
Custom	Unchecked	Select a custom template from a scroll-down list that appears upon Custom being checked
Advanced		
Off (Table and Line Processing)	Checked	Select to not process tables and lines when inspecting (for faster inspections)
Process Lines (Table and Line Processing)	Unchecked	Select to process lines (and not tables) when inspecting

PARAMETER	VALUE	DESCRIPTION
Process Lines and Tables (Table and Line Processing)	Unchecked	Select to process lines and tables when inspecting
Advanced Table Logic (Table and Line Processing)	Unchecked	Enable to use Whitespace Analysis Algorithm for table detection and process tables with and without lines when inspecting
Automatically remove headers and footers from Doc files (Document Processing)	Checked	Select to remove headers and footers from files (to prevent errors being detected during inspections for different pages numbers, for example)
Automatically remove QRD headers (Document Processing)	Unchecked	Select to eliminate the need to manually cross out QRD headers before running an inspection (to prevent them from being detected as differences)
Automatically remove highlights from Word files (Document Processing)	Checked	Select to remove highlights from Microsoft Word files to improve inspection results
Automatically remove hidden lines from PDF file (Document Processing)	Checked	Select to remove hidden lines that tend to exist in PDF files to improve inspection results
Correct Font Display Issues (Document Processing)	Unchecked	Select to correct display issues with corrupted fonts
Group Font Differences (Comparison Options)	Unchecked	Select to group Color, Bold, Italic, Underline, Font Type, Size, and/ or Subscript/Superscript differences as one if clustered together
Ignore Case during Inspection (Comparison Options)	Unchecked	Select for a case-insensitive inspection when matching words
Ignore Space Next to Hyphen (Comparison Options)	Unchecked	Ignore the space next to hyphens when classifying differences
Include Images (Comparison Options)	Unchecked	Enable to compare images appearing in loaded files during the inspection
Detect Soft Hyphens	Unchecked	Show hyphens appearing at the end of a line to divide words as differences
Ignore Tab Leaders	Unchecked	Enable to ignore visual representations of spaces between tabs
Automatic Resync	Checked	Enable post-processing of differences to help remove false positives
Font Size Tolerance (Comparison Options)	1.00	Adjust the change in font size that will be detected as a difference (re: Size difference type; 0.00 to 99.00)
Min Font Point Size (Comparison Options)	0.10	Adjust the font size set as the minimum (re: Min Font Point Size difference type; 0.00 to 99.00)

12.1.9 Different Layout (Inserts and Booklets) Profile Default Parameters (Text Inspection)

Similar to the **Cartons and Labels** profile, **Inserts and Booklets** is used to compare two files with different layouts, typically an internally approved master Word doc to the same copy on a laid-out PDF. The difference is inserts and booklets generally have larger blocks of text to inspect. **Table and Line Processing** and **Advanced Table Logic** are checked as a result, with a slight variation to the types of differences detected. Relative to the **Same Layouts (Revisions)** profile, there are some key differences. Here, the **Correction Level** is set to **High** and **Automatic Resync** is checked. The following table lists the profile's parameters and default values:

PARAMETER	VALUE	DESCRIPTION
Difference Types		
Insertion	Checked	Show insertion differences (inserted text)
Deletion	Checked	Show deletion differences (deleted text)
Change	Checked	Show change differences (matching text strings changed without regard to any one specific difference type)
Color	Unchecked	Show color differences (text with different color)
Space	Checked	Show space differences (inserted space vs. no space)
Hyphen	Checked	Show hyphen differences (hyphenated vs. non-hyphenated text)
Mismatch	Unchecked	Show reading order differences (corresponding insertion and deletion differences re-categorized as one reading-order difference)
Italic	Checked	Show italic differences (italic vs. non-italic text)
Bold	Checked	Show bold differences (bold vs. non-bold text)
Underline	Checked	Show underline differences (underlined vs. non-underlined text)
Subscript/Superscript	Checked	Show sub and superscript differences (sub/ superscripted vs. non-sub/ superscripted text)
Line Break Space	Unchecked	Show end-of-line spaces as differences (line-break space inserted between characters vs. no-line-break space)
Images	Unchecked	Show differences between images (with Include Images under Advanced enabled)

PARAMETER	VALUE	DESCRIPTION
Location	Unchecked	Show text location differences (moved text)
Case	Checked	Show case differences (upper-case/ lower-case changes)
Font Type	Unchecked	Show changes in the font as differences (text with different font name)
Size	Unchecked	Show differences in character sizes if they are greater than the specified value (configurable under Advanced)
Min Font Point Size	Unchecked	Show instances when the font falls below the minimum font point size (configurable under Advanced) as differences
Languages		
Process text as Left to Right	Checked	Sets the text directionality. Enable for any left-to-right languages such as French, English, Italian, etc.
Process text as Right to Left	Unchecked	Sets the text directionality. Enable for any right-to-left languages such as Arabic, Hebrew, Farsi, etc.
Process text as Asian	Unchecked	Enable Asian language processing to prevent words split by very small spaces from being detected as more than one
Correction Level		
Low	Unchecked	Select for files that have good reading order or for revisions
Medium	Unchecked	Select for files with repetitive text
High	Checked	Select when inspecting cartons, artwork files, leaflets, or files with many columns or tables; Avoid for files with repetitive text
Templates		
None	Checked	No template inspection
Carton/label	Unchecked	Enable for automatic QRD template inspection
Custom	Unchecked	Select a custom template from a scroll-down list that appears upon Custom being checked
Advanced		
Off (Table and Line Processing)	Unchecked	Select to not process tables and lines when inspecting (for faster inspections)
Process Lines (Table and Line Processing)	Unchecked	Select to process lines (and not tables) when inspecting

PARAMETER	VALUE	DESCRIPTION
Process Lines and Tables (Table and Line Processing)	Checked	Select to process lines and tables when inspecting
Advanced Table Logic (Table and Line Processing)	Checked	Enable to use Whitespace Analysis Algorithm for table detection and process tables with and without lines when inspecting
Automatically remove headers and footers from Doc files (Document Processing)	Checked	Select to remove headers and footers from files (to prevent errors being detected during inspections for different pages numbers, for example)
Automatically remove QRD headers (Document Processing)	Unchecked	Select to eliminate the need to manually cross out QRD headers before running an inspection (to prevent them from being detected as differences)
Automatically remove highlights from Word files (Document Processing)	Checked	Select to remove highlights from Microsoft Word files to improve inspection results
Automatically remove hidden lines from PDF file (Document Processing)	Checked	Select to remove hidden lines that tend to exist in PDF files to improve inspection results
Correct Font Display Issues (Document Processing)	Unchecked	Select to correct display issues with corrupted fonts
Group Font Differences (Comparison Options)	Unchecked	Select to group Color, Bold, Italic, Underline, Font Type, Size, and/ or Subscript/Superscript differences as one if clustered together
Ignore Case during Inspection (Comparison Options)	Unchecked	Select for a case-insensitive inspection when matching words
Ignore Space Next to Hyphen (Comparison Options)	Unchecked	Ignore the space next to hyphens when classifying differences
Include Images (Comparison Options)	Unchecked	Enable to compare images appearing in loaded files during the inspection
Detect Soft Hyphens	Unchecked	Show hyphens appearing at the end of a line to divide words as differences
Ignore Tab Leaders	Unchecked	Enable to ignore visual representations of spaces between tabs
Automatic Resync	Checked	Enable post-processing of differences to help remove false positives
Font Size Tolerance (Comparison Options)	1.00	Adjust the change in font size that will be detected as a difference (re: Size difference type; 0.00 to 99.00)
Min Font Point Size (Comparison Options)	0.10	Adjust the font size set as the minimum (re: Min Font Point Size difference type; 0.00 to 99.00)

12.1.10 QRD Profile Default Parameters (Text Inspection)

QRD (Quality Review of Documents) templates separate information to appear on product packaging through the presence of different headers. They fall under a variety of categories from individual product characteristics to the desired layout that will be used when creating the packaging itself. The QRD profile distinguishes itself by automatically removing those headers from the Master when comparing it to the Sample. The following table lists the profile's parameters and default values:

PARAMETER	VALUE	DESCRIPTION
Difference Types		
Insertion	Checked	Show insertion differences (inserted text)
Deletion	Checked	Show deletion differences (deleted text)
Change	Checked	Show change differences (matching text strings changed without regard to any one specific difference type)
Color	Unchecked	Show color differences (text with different color)
Space	Checked	Show space differences (inserted space vs. no space)
Hyphen	Checked	Show hyphen differences (hyphenated vs. non-hyphenated text)
Mismatch	Unchecked	Show reading order differences (corresponding insertion and deletion differences re-categorized as one reading-order difference)
Italic	Unchecked	Show italic differences (italic vs. non-italic text)
Bold	Unchecked	Show bold differences (bold vs. non-bold text)
Underline	Unchecked	Show underline differences (underlined vs. non-underlined text)
Subscript/Superscript	Unchecked	Show sub and superscript differences (sub/ superscripted vs. non-sub/ superscripted text)
Line Break Space	Unchecked	Show end-of-line spaces as differences (line-break space inserted between characters vs. no-line-break space)
Images	Unchecked	Show differences between images (with Include Images under Advanced enabled)
Location	Checked	Show text location differences (moved text)

PARAMETER	VALUE	DESCRIPTION
Case	Checked	Show case differences (upper-case/ lower-case changes)
Font Type	Unchecked	Show changes in the font as differences (text with different font name)
Size	Unchecked	Show differences in character sizes if they are greater than the specified value (configurable under Advanced)
Min Font Point Size	Unchecked	Show instances when the font falls below the minimum font point size (configurable under Advanced) as differences
Languages		
Process text as Left to Right	Checked	Sets the text directionality. Enable for any left-to-right languages such as French, English, Italian, etc.
Process text as Right to Left	Unchecked	Sets the text directionality. Enable for any right-to-left languages such as Arabic, Hebrew, Farsi, etc.
Process text as Asian	Unchecked	Enable Asian language processing to prevent words split by very small spaces from being detected as more than one
Correction Level		
Low	Unchecked	Select for files that have good reading order or for revisions
Medium	Unchecked	Select for files with repetitive text
High	Checked	Select when inspecting cartons, artwork files, leaflets, or files with many columns or tables; Avoid for files with repetitive text
Templates		
None	Unchecked	No template inspection
Carton/label	Checked	Enable for automatic QRD template inspection
Custom	Unchecked	Select a custom template from a scroll-down list that appears upon Custom being checked
Advanced		
Off (Table and Line Processing)	Checked	Select to not process tables and lines when inspecting (for faster inspections)
Process Lines (Table and Line Processing)	Unchecked	Select to process lines (and not tables) when inspecting

PARAMETER	VALUE	DESCRIPTION
Process Lines and Tables (Table and Line Processing)	Unchecked	Select to process lines and tables when inspecting
Advanced Table Logic (Table and Line Processing)	Unchecked	Enable to use Whitespace Analysis Algorithm for table detection and process tables with and without lines when inspecting
Automatically remove headers and footers from Doc files (Document Processing)	Checked	Select to remove headers and footers from files (to prevent errors being detected during inspections for different pages numbers, for example)
Automatically remove QRD headers (Document Processing)	Checked	Select to eliminate the need to manually cross out QRD headers before running an inspection (to prevent them from being detected as differences)
Automatically remove highlights from Word files (Document Processing)	Checked	Select to remove highlights from Microsoft Word files to improve inspection results
Automatically remove hidden lines from PDF file (Document Processing)	Checked	Select to remove hidden lines that tend to exist in PDF files to improve inspection results
Correct Font Display Issues (Document Processing)	Unchecked	Select to correct display issues with corrupted fonts
Group Font Differences (Comparison Options)	Unchecked	Select to group Color, Bold, Italic, Underline, Font Type, Size, and/ or Subscript/Superscript differences as one if clustered together
Ignore Case during Inspection (Comparison Options)	Unchecked	Select for a case-insensitive inspection when matching words
Ignore Space Next to Hyphen (Comparison Options)	Unchecked	Ignore the space next to hyphens when classifying differences
Include Images (Comparison Options)	Unchecked	Enable to compare images appearing in loaded files during the inspection
Detect Soft Hyphens	Unchecked	Show hyphens appearing at the end of a line to divide words as differences
Ignore Tab Leaders	Unchecked	Enable to ignore visual representations of spaces between tabs
Automatic Resync	Checked	Enable post-processing of differences to help remove false positives
Font Size Tolerance (Comparison Options)	1.00	Adjust the change in font size that will be detected as a difference (re: Size difference type; 0.00 to 99.00)
Min Font Point Size (Comparison Options)	0.10	Adjust the font size set as the minimum (re: Min Font Point Size difference type; 0.00 to 99.00)

12.1.11　Same Layout (Revisions) Profile Default Parameters (Text Inspection)

As this profile is typically used to compare similar files of the same type and layout (generally for revision purposes), the **Correction level** is set to **Low**. Also unlike the profiles for documents with different layouts, **Automatic Resync** is unchecked. Meanwhile, most difference types are checked to catch even the slightest changes. The following table lists the profile's parameters and default values:

PARAMETER	VALUE	DESCRIPTION
Difference Types		
Insertion	Checked	Show insertion differences (inserted text)
Deletion	Checked	Show deletion differences (deleted text)
Change	Checked	Show change differences (matching text strings changed without regard to any one specific difference type)
Color	Checked	Show color differences (text with different color)
Space	Checked	Show space differences (inserted space vs. no space)
Hyphen	Checked	Show hyphen differences (hyphenated vs. non-hyphenated text)
Mismatch	Unchecked	Show reading order differences (corresponding insertion and deletion differences re-categorized as one reading-order difference)
Italic	Checked	Show italic differences (italic vs. non-italic text)
Bold	Checked	Show bold differences (bold vs. non-bold text)
Underline	Checked	Show underline differences (underlined vs. non-underlined text)
Subscript/Superscript	Checked	Show sub and superscript differences (sub/ superscripted vs. non-sub/ superscripted text)
Line Break Space	Checked	Show end-of-line spaces as differences (line-break space inserted between characters vs. no-line-break space)
Images	Unchecked	Show differences between images (with Include Images under Advanced enabled)
Location	Checked	Show text location differences (moved text)
Case	Checked	Show case differences (upper-case/ lower-case changes)

PARAMETER	VALUE	DESCRIPTION
Font Type	Checked	Show changes in the font as differences (text with different font name)
Size	Checked	Show differences in character sizes if they are greater than the specified value (configurable under Advanced)
Min Font Point Size	Unchecked	Show instances when the font falls below the minimum font point size (configurable under Advanced) as differences
Languages		
Process text as Left to Right	Checked	Sets the text directionality. Enable for any left-to-right languages such as French, English, Italian, etc.
Process text as Right to Left	Unchecked	Sets the text directionality. Enable for any right-to-left languages such as Arabic, Hebrew, Farsi, etc.
Process text as Asian	Unchecked	Enable Asian language processing to prevent words split by very small spaces from being detected as more than one
Correction Level		
Low	Checked	Select for files that have good reading order or for revisions
Medium	Unchecked	Select for files with repetitive text
High	Unchecked	Select when inspecting cartons, artwork files, leaflets, or files with many columns or tables; Avoid for files with repetitive text
Templates		
None	Checked	No template inspection
Carton/label	Unchecked	Enable for automatic QRD template inspection
Custom	Unchecked	Select a custom template from a scroll-down list that appears upon Custom being checked
Advanced		
Off (Table and Line Processing)	Unchecked	Select to not process tables and lines when inspecting (for faster inspections)
Process Lines (Table and Line Processing)	Checked	Select to process lines (and not tables) when inspecting
Process Lines and Tables (Table and Line Processing)	Unchecked	Select to process lines and tables when inspecting

PARAMETER	VALUE	DESCRIPTION
Advanced Table Logic (Table and Line Processing)	Unchecked	Enable to use Whitespace Analysis Algorithm for table detection and process tables with and without lines when inspecting
Automatically remove headers and footers from Doc files (Document Processing)	Checked	Select to remove headers and footers from files (to prevent errors being detected during inspections for different pages numbers, for example)
Automatically remove QRD headers (Document Processing)	Unchecked	Select to eliminate the need to manually cross out QRD headers before running an inspection (to prevent them from being detected as differences)
Automatically remove highlights from Word files (Document Processing)	Checked	Select to remove highlights from Microsoft Word files to improve inspection results
Automatically remove hidden lines from PDF file (Document Processing)	Checked	Select to remove hidden lines that tend to exist in PDF files to improve inspection results
Correct Font Display Issues (Document Processing)	Unchecked	Select to correct display issues with corrupted fonts
Group Font Differences (Comparison Options)	Unchecked	Select to group Color, Bold, Italic, Underline, Font Type, Size, and/ or Subscript/Superscript differences as one if clustered together
Ignore Case during Inspection (Comparison Options)	Unchecked	Select for a case-insensitive inspection when matching words
Ignore Space Next to Hyphen (Comparison Options)	Unchecked	Ignore the space next to hyphens when classifying differences
Include Images (Comparison Options)	Unchecked	Enable to compare images appearing in loaded files during the inspection
Detect Soft Hyphens	Unchecked	Show hyphens appearing at the end of a line to divide words as differences
Ignore Tab Leaders	Unchecked	Enable to ignore visual representations of spaces between tabs
Automatic Resync	Unchecked	Enable post-processing of differences to help remove false positives
Font Size Tolerance (Comparison Options)	1.00	Adjust the change in font size that will be detected as a difference (re: Size difference type; 0.00 to 99.00)
Min Font Point Size (Comparison Options)	0.10	Adjust the font size set as the minimum (re: Min Font Point Size difference type; 0.00 to 99.00)

12.2 Workflows

Workflows consist of individual groups of pre-set parameters that help run multiple inspections (via the **Perform Multiple Inspections** button) more efficiently in concert with the **Create new Job** function. The Application is installed with the default workflows listed in the tables below, each consisting of default parameter values. Administrators and managers can add, rename, and delete workflows and modify individual parameter values. For more information, consult the Administration Guide.

12.2.1 Carton (Press Sheet)

This carton workflow can be used to compare a PDF press sheet to a scanned press sheet.

PARAMETER	VALUE	DESCRIPTION
Inspection Resolution		
Inspection Resolution	300	The resolution of a master or sample file to be loaded
Scanner & Image Adjustments		
Scanner	Default	Set the source when scanning master or sample files
Grayscale	Unchecked	Scan files in grayscale
Brightness	0	The brightness value of the scanned file (-100 to 100)
Contrast	0	The contrast value of the scanned file (-100 to 100)
Gamma	2.50	The gamma correction value of the scanned file (0.00 to 5.00)
Advanced		
Support Rotated Repeats	Unchecked	Enable detection of rotated or nested sample images
Actions & Profiles		
Graphics	Checked	Pixel-by-pixel comparison between the Master and Sample file(s); Action is set to One to One and Profile is set to Digital to Scan
Barcodes	Unchecked	Inspection of files containing barcodes, which are detected and graded (by default, Action is set to Inspect Master and Profile is set to Default)
Braille	Unchecked	Inspection of separate master or sample files for Braille translation or comparison between the two. Digital documents and scanned copies of embossed or glue-dot sample types are supported (by default, Action is set to Inspect Sample and Profile is set to English)

PARAMETER	VALUE	DESCRIPTION
Text	Unchecked	Compare the live text in two documents of the same or a different file type for discrepancies (by default, Action is set to Compare (All Pages) and Profile is set to Same Layout (Revisions)
Spell	Unchecked	Inspect the Master or Sample using the dictionary of your choice (by default, Action is set to Inspect Sample and Profile is set to English (Canadian))

12.2.2 Carton

This carton workflow can be used to compare a 1-up PDF artwork file to a scanned 1-up or press sheet.

PARAMETER	VALUE	DESCRIPTION
Inspection Resolution		
Inspection Resolution	300	The resolution of a master or sample file to be loaded
Scanner & Image Adjustments		
Scanner	Default	Set the source when scanning master or sample files
Grayscale	Unchecked	Scan files in grayscale
Brightness	0	The brightness value of the scanned file (-100 to 100)
Contrast	0	The contrast value of the scanned file (-100 to 100)
Gamma	2.50	The gamma correction value of the scanned file (0.00 to 5.00)
Advanced		
Support Rotated Repeats	Unchecked	Enable detection of rotated or nested sample images
Actions & Profiles		
Graphics	Checked	Pixel-by-pixel comparison between the Master and Sample file(s); Action is set to Single Page and Profile is set to Digital to Scan
Barcodes	Unchecked	Inspection of files containing barcodes, which are detected and graded (by default, Action is set to Inspect Master and Profile is set to Default)

PARAMETER	VALUE	DESCRIPTION
Braille	Unchecked	Inspection of separate master or sample files for Braille translation or comparison between the two. Digital documents and scanned copies of embossed or glue-dot sample types are supported (by default, Action is set to Inspect Sample and Profile is set to English)
Text	Unchecked	Compare the live text in two documents of the same or a different file type for discrepancies (by default, Action is set to Compare (All Pages) and Profile is set to Same Layout (Revisions)
Spell	Unchecked	Inspect the Master or Sample using the dictionary of your choice (by default, Action is set to Inspect Sample and Profile is set to English (Canadian))

12.2.3 Insert

Use the insert workflow to compare a full PDF insert an insert press sheet.

PARAMETER	VALUE	DESCRIPTION
Inspection Resolution		
Inspection Resolution	300	The resolution of a master or sample file to be loaded
Scanner & Image Adjustments		
Scanner	Default	Set the source when scanning master or sample files
Grayscale	Unchecked	Scan files in grayscale
Brightness	0	The brightness value of the scanned file (-100 to 100)
Contrast	0	The contrast value of the scanned file (-100 to 100)
Gamma	2.50	The gamma correction value of the scanned file (0.00 to 5.00)
Advanced		
Support Rotated Repeats	Unchecked	Enable detection of rotated or nested sample images
Actions & Profiles		
Graphics	Checked	Pixel-by-pixel comparison between the Master and Sample file(s); Action is set to One to One and Profile is set to Digital to Scan

PARAMETER	VALUE	DESCRIPTION
Barcodes	Unchecked	Inspection of files containing barcodes, which are detected and graded (by default, Action is set to Inspect Master and Profile is set to Default)
Braille	Unchecked	Inspection of separate master or sample files for Braille translation or comparison between the two. Digital documents and scanned copies of embossed or glue-dot sample types are supported (by default, Action is set to Inspect Sample and Profile is set to English)
Text	Unchecked	Compare the live text in two documents of the same or a different file type for discrepancies (by default, Action is set to Compare (All Pages) and Profile is set to Same Layout (Revisions)
Spell	Unchecked	Inspect the Master or Sample using the dictionary of your choice (by default, Action is set to Inspect Sample and Profile is set to English (Canadian))

12.2.4 Label (Web)

This label workflow can be used to compare a PDF of a label (web) to a scanned print.

PARAMETER	VALUE	DESCRIPTION
Inspection Resolution		
Inspection Resolution	400	The resolution of a master or sample file to be loaded
Scanner & Image Adjustments		
Scanner	Default	Set the source when scanning master or sample files
Grayscale	Unchecked	Scan files in grayscale
Brightness	0	The brightness value of the scanned file (-100 to 100)
Contrast	0	The contrast value of the scanned file (-100 to 100)
Gamma	2.50	The gamma correction value of the scanned file (0.00 to 5.00)
Advanced		
Support Rotated Repeats	Unchecked	Enable detection of rotated or nested sample images
Actions & Profiles		

PARAMETER	VALUE	DESCRIPTION
Graphics	Checked	Pixel-by-pixel comparison between the Master and Sample file(s); Action is set to One to One and Profile is set to Digital to Scan
Barcodes	Unchecked	Inspection of files containing barcodes, which are detected and graded (by default, Action is set to Inspect Master and Profile is set to Default)
Braille	Unchecked	Inspection of separate master or sample files for Braille translation or comparison between the two. Digital documents and scanned copies of embossed or glue-dot sample types are supported (by default, Action is set to Inspect Sample and Profile is set to English)
Text	Unchecked	Compare the live text in two documents of the same or a different file type for discrepancies (by default, Action is set to Compare (All Pages) and Profile is set to Same Layout (Revisions)
Spell	Unchecked	Inspect the Master or Sample using the dictionary of your choice (by default, Action is set to Inspect Sample and Profile is set to English (Canadian))

12.2.5 Label

This label workflow can be used to compare a 1-up PDF artwork file to a scanned label or label (web).

PARAMETER	VALUE	DESCRIPTION
Inspection Resolution		
Inspection Resolution	400	The resolution of a master or sample file to be loaded
Scanner & Image Adjustments		
Scanner	Default	Set the source when scanning master or sample files
Grayscale	Unchecked	Scan files in grayscale
Brightness	0	The brightness value of the scanned file (-100 to 100)
Contrast	0	The contrast value of the scanned file (-100 to 100)
Gamma	2.50	The gamma correction value of the scanned file (0.00 to 5.00)
Advanced		
Support Rotated Repeats	Unchecked	Enable detection of rotated or nested sample images

PARAMETER	VALUE	DESCRIPTION
Actions & Profiles		
Graphics	Checked	Pixel-by-pixel comparison between the Master and Sample file(s). Action is set to Single Page and Profile is set to Digital to Scan.
Barcodes	Unchecked	Inspection of files containing barcodes, which are detected and graded (by default, Action is set to Inspect Master and Profile is set to Default)
Braille	Unchecked	Inspection of separate master or sample files for Braille translation or comparison between the two. Digital documents and scanned copies of embossed or glue-dot sample types are supported (by default, Action is set to Inspect Sample and Profile is set to English)
Text	Unchecked	Compare the live text in two documents of the same or a different file type for discrepancies (by default, Action is set to Compare (All Pages) and Profile is set to Same Layout (Revisions)
Spell	Unchecked	Inspect the Master or Sample using the dictionary of your choice (by default, Action is set to Inspect Sample and Profile is set to English (Canadian))

12.3 Supported Braille Languages

The following tables list the Application's supported languages (profiles) in **Braille Inspection Mode**.

Albanian	Estonian	Icelandic	Russian
Basque (Spain)	European Braille Code (EBU)	Irish (Gaelic)	Serbian
Belarusian	Faroese (Demark)	Italian	Slovakian
Bulgarian	Finnish	Kazakh	Slovene
Catalan (Spain)	French (Antoine)	Latvian	Spanish
Croatian	French (Traditional)	Lithuanian	Swedish
Czech	Galician (Spain)	Maltese	Turkish
Danish	German	Norwegian	Ukrainian
Dutch	Greek	Polish	Unified English Braille (UEB)
English	Greenlandic	Portuguese	Uzbek
English (UK)	Hungarian	Romanian	

12.4 Supported Dictionaries (Spelling Inspection)

Bulgarian	German	Portuguese (Portugal)
Catalan	Greek	Romanian
Croatia	Hungarian	Russian
Czech	Irish	Serbian (Cyrillic)
Danish	Italian	Serbian (Latin)
Dutch	Latvian	Slovak
English (Canadian)	Lithuanian	Slovenian
English (UK)	Maltese	Spanish (Mexican)
English (USA)	Medical Dictionary	Spanish (Spain)
Estonian	Norwegian (Bokmal)	Swedish
French	Norwegian (Nynorsk)	Turkish
German (Austrian)	Polish	Ukrainian
German (Switzerland)	Portuguese (Brazil)	

12.5 Supported Barcodes

The following tables list the Application's supported 1D and 2D barcodes and break down the grading scheme for verified parameters (when applicable).

12.5.1 One-Dimensional (1D) Barcodes

SYMBOLOGY	DECODING	GRADING
Codabar	Supported	Supported
Code 11	Supported	Not Supported
Code 32	Supported	Supported
Code 39	Supported	Supported
Code 93	Supported	Supported
Code 128 / GS1-128	Supported	Supported
Interleave 2 of 5	Supported	Supported
MSI	Supported	Supported
Laetus Pharma Code *	Supported	Supported

SYMBOLOGY	DECODING	GRADING
GS1 Databar Omnidirectional	Supported	Supported
GS1 Databar Truncated	Supported	Supported
GS1 Databar Stacked	Supported	Supported
GS1 Databar Limited	Supported	Supported
GS1 Databar Expanded	Supported	Supported
GS1 Databar Expanded Stacked	Supported	Supported
GS1 Databar Stacked Omnidirectional	Supported	Supported
TelePen	Supported	Not Supported
EAN 13	Supported	Supported
EAN 8	Supported	Supported
EAN 5	Supported	Not Supported
EAN 2	Supported	Not Supported
UPC-A	Supported	Supported
UPC-E	Supported	Supported
ITF-14	Supported	Supported
ITF-16	Supported	Supported

* Pharma code is decoded in both orientations (0 and 180 degrees' rotation)

**Magnification for supported barcodes can vary from 80% to 200% with exception to Interleave 2 of 5.

12.5.2   Two-Dimensional (2D) Barcodes

SYMBOLOGY	DECODING	GRADING
DataMatrix	Supported	Supported
GS1 DataMatrix	Supported	Supported
QR	Supported	Supported
GS1 QR	Supported	Supported
Micro QR	Supported	Supported

12.5.3   Grading Parameters

GRADING PARAMETER	RATIO	GRADING TABLE
Decodability	N/A	A >= 62% B >= 50% C >= 37% D >= 25% F < 25%

GRADING PARAMETER	RATIO	GRADING TABLE
Symbol Contrast	Rmax-Rmin	A >= 70% B >= 55% C >= 40% D >= 20% F < 20%
Min Edge Contrast	Rsmin-Rbmax	A >= 15% F < 15%
Modulation	Ecmin/ SC	A >= 70% B >= 60% C >= 50% D >= 40% F < 40%
Defects	ERNmax/ SC	A <= 15% B <= 20% C <= 25% D <= 30% F > 30%
Decode	N/A	A (4) or F (0)
Min Reflectance	Rmin/Rmax	A <= 0.5 X Max Reflectance F > 0.5 X Max Reflectance
Quiet Zone	N/A	A = Clean F = Artifacts detected
Narrow Bar	Varies depending on barcode type	
Wide Bar	Varies depending on barcode type	
Wide to Narrow Ratio	NB:WB	1:3 <= A >= 1:2 1:3 > F < 1:2
Gap	Varies depending on barcode type	
Axial Non-Uniformity	abs($X_{AVG} - Y_{AVG}$) /(($X_{AVG} - Y_{AVG}$)/2)	A <= 6% B <= 8% C <= 10% D <= 12% F > 12%
Grid Non-Uniformity	Largest vector deviation /X-dimension	A <= 38% B <= 50% C <= 63% D <= 75% F > 75%

GRADING PARAMETER	RATIO	GRADING TABLE
Fixed Pattern Damage	Lowest grade of: • Finder pattern, • Quiet zone, • Clock pattern, • Solid area, or • Overall fixed pattern	Overall Fixed Pattern (average of symbols): A = 4.0 B >= 3.5 C >= 3.0 D >= 2.5 F < 2.5
Unused Error Correction	$1,0 - ((e+2t)/ECAP)$	A >= 62% B >= 50% C >=37% D >= 25% F < 25%

12.6 Shortcut Keys

The following tables lists the Application's hot keys.

KEY	FUNCTION
Mouse track wheel	Main View: • Scroll up to magnify the image • Scroll down to reduce the magnification of the image **NOTE:** With a Mac operating system with Scroll Direction: Natural ON: • Scroll down to magnify the image • Scroll up to reduce the magnification of the image With a Mac operating system with Scroll Direction: Natural OFF: • Scroll up to magnify the image • Scroll down to reduce the magnification of the image
Left mouse button	Used for panning; Hold down and move within the panel to pan
Left drag + CTRL	Marquee Zoom in Main View
Left drag + CTRL + ALT	Marquee Zoom in Inspection View
CTRL + M	Load a master
CTRL + S	Load a sample
CTRL + SHIFT + M	Scan a master
CTRL + SHIFT + S	Scan a sample
CTRL + A	Show live (inspectable) text in Master
CTRL + B	Show live (inspectable) text in Sample
CTRL + SHIFT + C	Toggle on Cross-out Text in Master
CTRL + SHIFT + D	Toggle on Cross-out Text in Sample

KEY	FUNCTION
CTRL + SHIFT + U	Toggle on Underline Text in Master
CTRL + SHIFT + V	Toggle on Underline Text in Sample
CTRL + SHIFT + Z	Toggle on Create Zones
CTRL + SHIFT + X	Clear all in Master
CTRL + SHIFT + Y	Clear all in Sample
SHIFT + M/ SHIFT +S (Spelling Inspection)	Rotate Master 90º clockwise
SHIFT + S	Rotate Sample 90º clockwise
CTRL + ENTER	Run the inspection
CTRL + SHIFT + ENTER	Run multiple inspections
F1	Reporting level - Critical
F2	Reporting level - Major
F3	Reporting level - Minor
F4	Reporting level - Ignore
F5	Reporting level - None
F11	Include difference and navigate to the next difference
F12	Exclude difference
SHIFT + Left drag	Group differences
ALT + Left drag	Exclude differences
SHIFT + ALT + Left drag	Add difference
ALT + M	Show/ hide Master panel (following an inspection)
PAGE UP/ PAGE DOWN	Navigate between repeats
CTRL + R	Launch Report Options window (to generate report)