

DocuFi ComPara

By DocuFi, Inc.



Contents

Welcome to ComPara	1
Getting Help	1
Ways to Get Help	1
Conventions Used in this Manual	2
Getting Started	2
Introduction.....	2
What You Can Do With ComPara	3
Supported File Formats	3
Comparing and Measuring	3
System Requirements.....	3
Quick Start Guide	3
Exploring the ComPara Interface and Logic	3
Opening a Document	4
Viewing	5
Installing and Uninstalling ComPara	5
Registering/Activating ComPara	6
Navigating your Documents	7
Overview of Navigation tools and Options.....	7
Zoom Extents.....	7
Window	7
In.....	7
Out	7
Pan	7
Working with the Magnifier	7
Magnifier	8
+	8
-	8
Enlarge.....	8
Shrink	8
Comparing Drawings	9
Overview of Comparing Files	9
Overlay Comparison	9
Showing the Differences.....	9
Showing the Common Data	10
Showing the Deletions	11
Showing the Additions.....	11

Navigating Multipage Documents	12
Multipage File Overview	12
Tagging the Differences	14
Overview of Tagging Changes	14
Tagging Comparison Regions:	14
Bubble Bar of Comparison Tags:	14
Zooming to Bubble Tags:	15
Publishing your Tags:	15
Measuring	16
Making Measurements with your documents	16
To measure Distances on the document:	16
To measure Square Areas on the document:	17
To measure Circular Interferences on the document:	18
To calibrate measurements:	18
Document File Functions	19
Opening an Image File.....	19
Closing a File.....	19
Exiting ComPara.....	19
ComPara Command Line Options and Usage	19
Command Line Examples.....	20
Preferences	20
User Settings.....	20
Draw Color	21
Base Color	21
Overlay Color	21
Commands and Icons	22
Introduction	22
File Menu Commands and Icons	22
View Menu Commands and Icons	22
Measure Menu Commands and Icons.....	23
Compare/Tag/Alignment Menu Commands and Icons.....	24
Legal Notices	24
Purchasing ComPara	25

Welcome to ComPara

Welcome to ComPara, the comparison editor that makes it easier than ever to review and publish drafting changes. Simple and efficient tools eliminate the time to manually compare drawing revisions to identify changes and differences.

ComPara is a tool unlike any other with its unique ability to identify (tag) and publish document changes, it's an ideal tool to distribute along with your document changes.

You can publish your changed archives in common formats including TIFF or use the Adobe PDF format for scanned documents.

And, ComPara contains speedy file measurements tools to allow you to perform take-off measurements directly from your scanned and PDF files.

Treat your engineering drawings with the respect they deserve, keep them in raster for a timeless solution.

Getting Help

Ways to Get Help

Need help with ComPara? There are number of ways to get the help you need.

Help and Documentation - This help documentation includes details on every command, feature and function of the software.

RasterEditing Website – The DocuFi RasterEditing.com website has product information and more. Visit <http://www.rasterediting.com>.

Facebook – DocuFi provides fanpages for our products. You can join in at &docufi.

Getting Help by E-Mail - Send your questions or comments to us: info@docufi.com. A Customer Service Representative can provide technical support or answer your inquiry by e-mail.

Conventions Used in this Manual

These are the conventions and type-styles used in this manual:

Items presented in *Italics*:

Terms and concepts when first introduced in the text.

Variables, file names and numeric values.

Special notes and important messages.

[RETURN] indicates the action of pressing the ‘Enter’ or ‘Return’ key.

Keyboard entries to be typed, or buttons to be clicked, are printed in an **Arial bold font**.

Menu items to be selected are indicated as follows: **FILE | OPEN FILE**. The first item indicates the *ComPara* pulldown menu, e.g. the **FILE** menu, and the second, or subsequent, portion(s) after the horizontal bar indicate the menu command item to be selected.

Clicking refers to a left mouse click unless otherwise noted as a “right-mouse click”

Getting Started

Introduction

DocuFi ComPara makes it quick and easy to measure and compare a drawing set, with advanced functionality just a few clicks away when you’re ready. This section provides information to get you ready to work on your first drawing or image comparison.

The trial software version installs the ComPara application, support files and several demonstration files into the folder: C:\Program Files\DocuFi\ComPara (32 bit environments) and C:\Program Files (x86)\DocuFi\ComPara (64 bit environments).

In ComPara trial mode (before you have purchased and authorized your software) you can open TIFF and PDF drawings and documents which are tagged with a Trial Mode banner. Please contact DocuFi at info@docufi.com to purchase the software or visit shopdocufi.com.

In This Section:

1. What You Can Do With the DocuFi ComPara
2. Supported File Formats and System Requirements
3. Information to Quickly Get Started
4. Installing and Uninstalling ComPara
5. Registering/Activating ComPara
-

What You Can Do With ComPara

ComPara is a universal raster and PDF comparison tool to help you identify variations between document sets. It has quick measurement tools and navigation aids that make it a simple, intuitive and effective drawing tool.

ComPara has simple CAD-like measurement aids that allow you to quickly measure or calibrate your document.. A few of the functions include:

- Compare revisions of documents and easily identify the differences
- Measure distances
- Publish drawing changes to PDF
- Convert PDF files to TIF and compare

Supported File Formats

Comparing and Measuring

- TIFF - scanned raster (image) files including multi-page TIFF image files
- PDF

System Requirements

To run ComPara properly, your system should include the following hardware and software components:

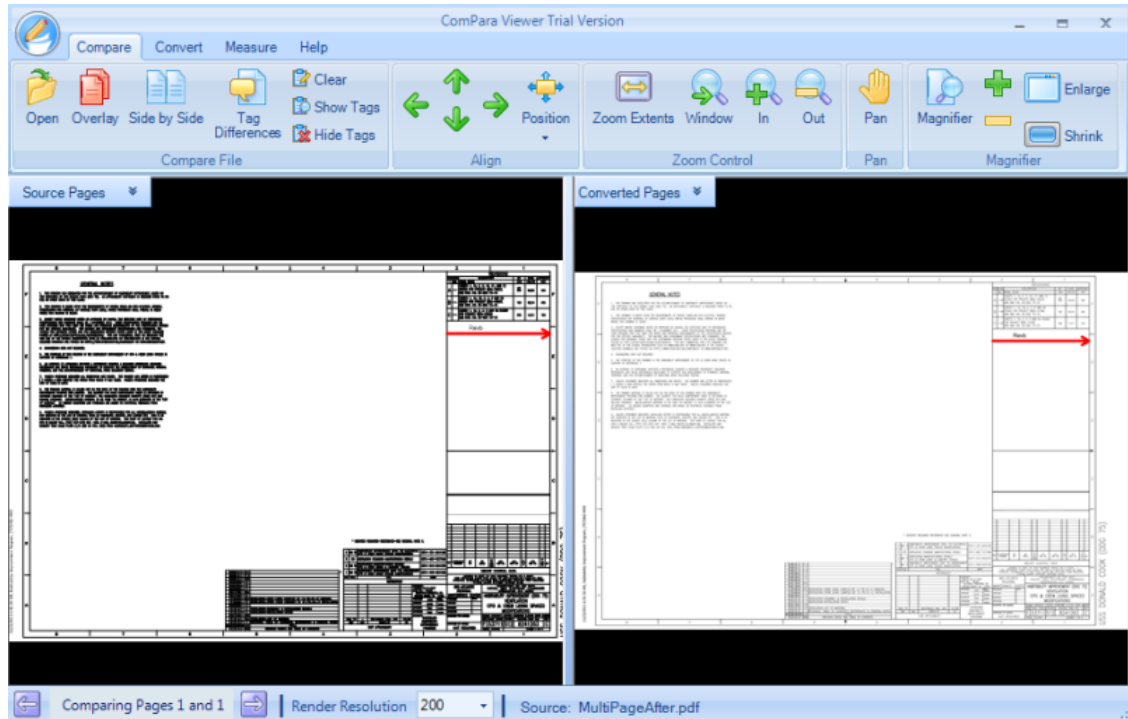
Minimum:

- Windows® XP, 2000, 2003, Vista, Windows7, Windows 8
- 32 and 64bit environments
- 4GB RAM
- 20 MB Free Hard Disk Space

Quick Start Guide

Exploring the ComPara Interface and Logic

The main areas of the DocuFi ComPara screen are shown below:



The **Tabbed Menu** displays commands available for comparing or measuring your document set.

The **Document Viewer** is where drawings and documents are graphically displayed in a side by side or overlay manner.

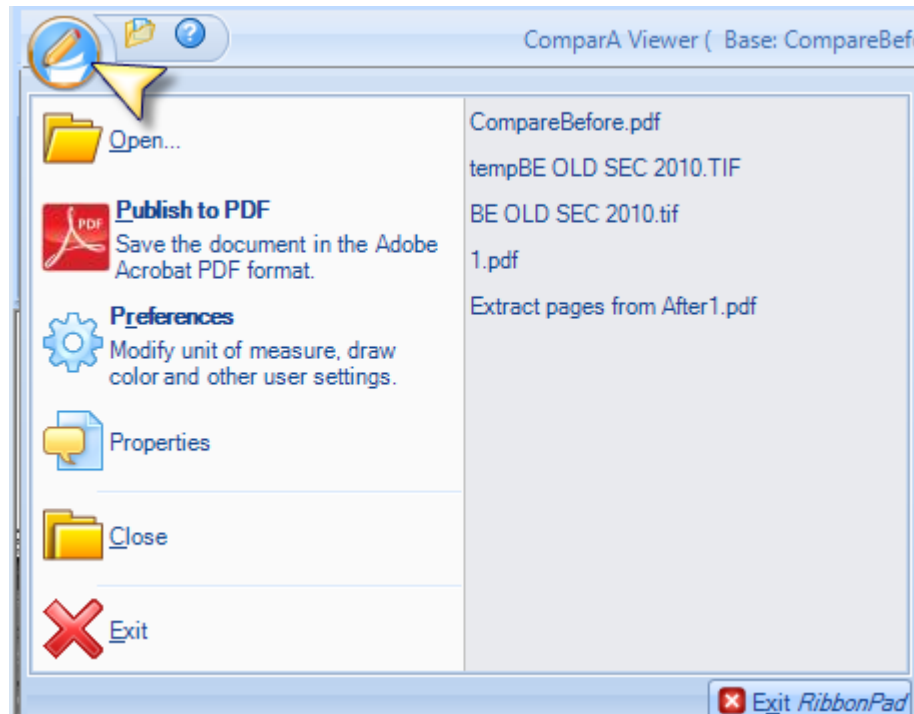
The **Lower Status Bar** displays information about the current session including pages of comparison, document names, and other controls specific to the comparison mode.

There are several methods to invoke commands in ComPara. You can use the dropdown menus, select icons or toolbar icons for command access.

The Zoom window tool is the default tool when ComPara is opened.

Opening a Document

In this Quick Start section, we'll demonstrate ComPara using one of the sample files called CompareBefore.pdf and CompareAfter.pdf. Open this file set with **OPEN** menu selection found by selecting the main menu icon in the upper left of ComPara.



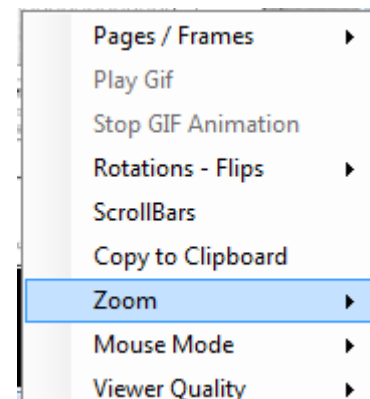
It can be found in the installation folder\Samples folder. You can use the file-browsing window to identify the location and name of the file.

ComPara will also keep the most recent fields opened in the ribbon pad adjacent to the Open Command.

Viewing

The default tool when starting the software is the Zoom tool. Using your mouse, you can left click and draw a Rectangle around any area of the open image. When the mouse button is released, your image will be zoomed into that area and the associated side by side view will zoom to the same location.

You can choose between the default side by side view, or an overlay view when looking at comparison files in ComPara.



Installing and Uninstalling ComPara

To Install ComPara:

Installing rasterREnew is an easy process that takes only a few moments. Navigate to the DocuFi website (docufi.com). From the home page, select Trial Downloads from Products Section on the horizontal menu on the top of the page. On the Trial Downloads page, page down to the “Download ComPara trial as an .exe” link. Click on this. Follow the instructions on the pop up download window to open or save the file as a trial download. The trial version contains full functionality of the raster editing and image enhancement tools but has limited capability in batch enhancement and no saving. **See Registering/Activating ComPara** to turn your trial software into a fully licensed version.

To Uninstall ComPara:

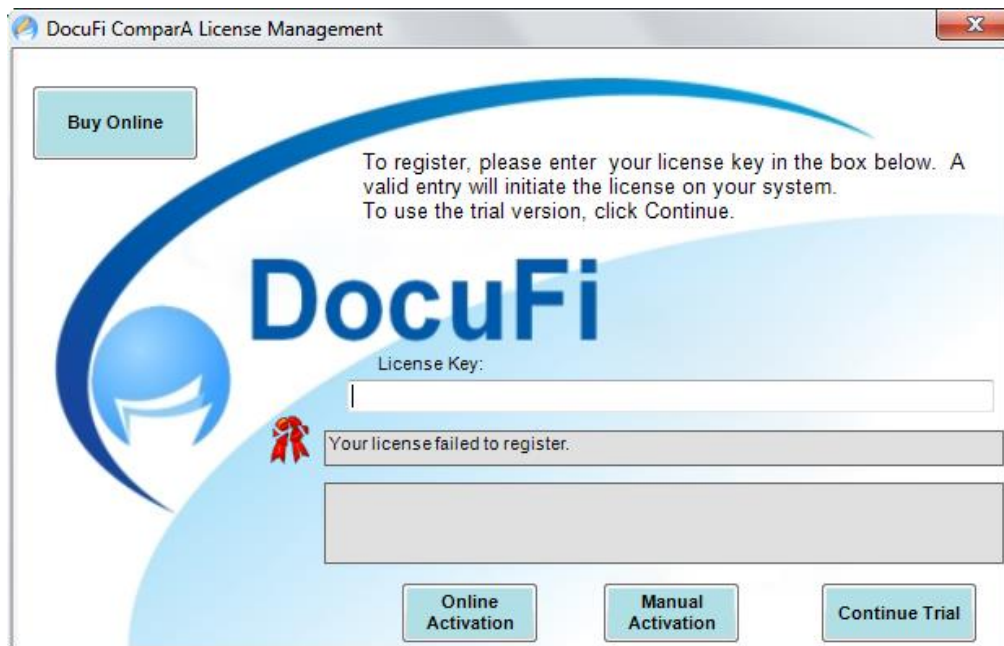
You can uninstall ComPara at any time. Uninstalling ComPara will completely remove the software from your system, but will leave any image files you have saved.

1. From your Windows Control Panel, select Add or Remove Programs.
2. Locate DocuFi ComPara in the list of currently installed programs.
3. Click on ComPara to select it, and click Change / Remove.
4. Follow the instructions that appear on the screen.

Registering/Activating ComPara

After your purchase of ComPara, you will receive a confirmation email from DocuFi. Purchases made after business hours (M-F, 9am-5pm EST) will receive a confirmation email the following business day with instructions on how to authorize your software.

Our licensing can be generated through an online or manual method. If you purchased the software through our online store at www.rasterediting.com, a license is generated upon successful purchase. Simply paste your license key in the designated box to authorize your license.

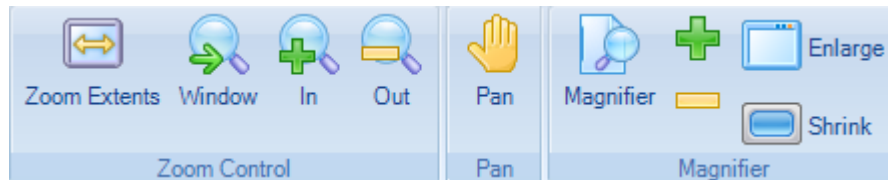


Navigating your Documents

Overview of Navigation tools and Options

Navigating within the document is accommodated using the left and right mouse buttons. By default, the left mouse button executes panning while the right mouse button zooming. Simply press and release on either mouse button to initiate the dynamic panning or zooming functions.

There are several additional commands that effect the display viewport found in the main toolbar.



Zoom Extents

The image is fitted to the width and height of the image.

Window

The user is prompted for a rectangular window. After selecting this window, the viewport is zoomed to the designated area.

In

The image is zoomed closer by a 50% factor.

Out

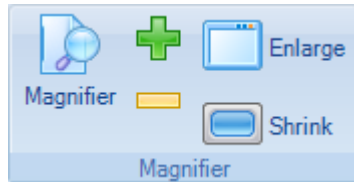
The image is zoomed further by a 50% factor.

Pan

Allows the user to use the left mouse to pan or scroll through the document.

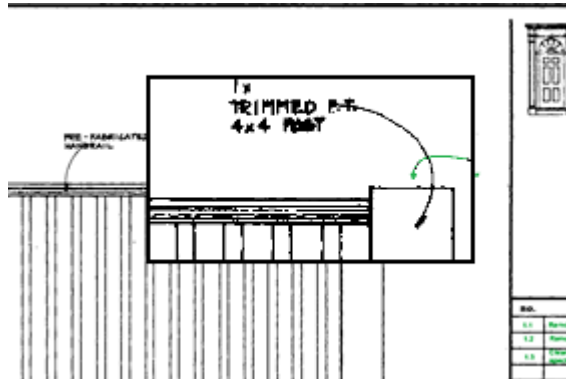
Working with the Magnifier

The magnifier command will display a zooming magnifier window. -The zoom level can also be adjusted with the plus (+) or minus (-) buttons to control the zoom levels. You can also Enlarge or Shrink the size of the magnifier window



Magnifier

Invoking the Magnifier command will toggle the mouse from Pan mode to a magnifier viewport that displays the active image data within the region of mouse movement. If it is selected again, the magnifier window is disabled and the mouse returned to a Pan mode.



+

The user can increase the magnification setting by selecting the + icon and the magnifier region is zoomed in.

-

The user can decrease the magnification setting by selecting the - icon and the magnifier region is zoomed out.

Enlarge

The magnifier region is increased by a factor of 50%.

Shrink

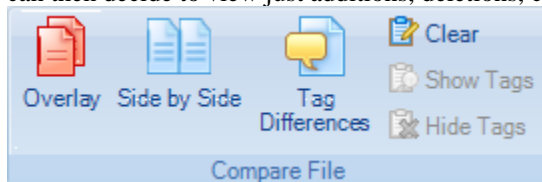
The magnifier region is decreased by a factor of 50%.

Comparing Drawings

Overview of Comparing Files

DocuFi ComPara is designed to allow you to easily manage your document changes. There are two viewing modes you can use to easily review the changes to your files.

- **Side by Side Comparison** will display each of the designated files in a synchronized side by side setting. Zooms and pans conducted in either view are reflected in the adjoining viewport.
- **Overlay Comparisons** will display the differences for the documents in a transparency overlay manner. Users can then decide to view just additions, deletions, common data, or all together in a simple interface.

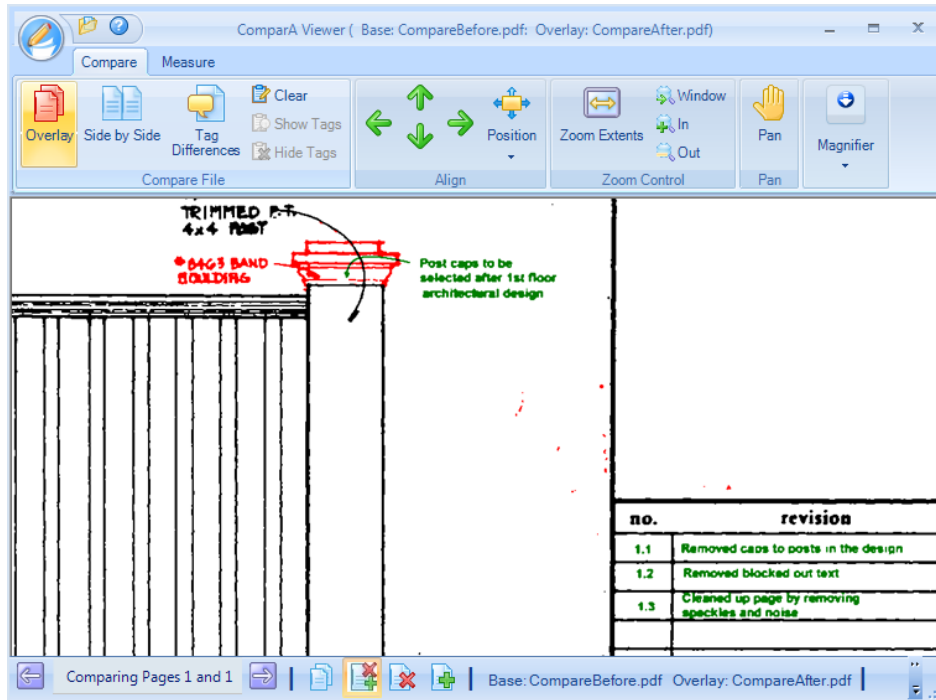


Overlay Comparison

The Overlay Comparison tool provides an easy and visual way to help identify differences between a base document and overlay document. Select the Overlay icon to invoke the comparison and ComPara will display the changes in accordance to your color preferences (See Preferences).

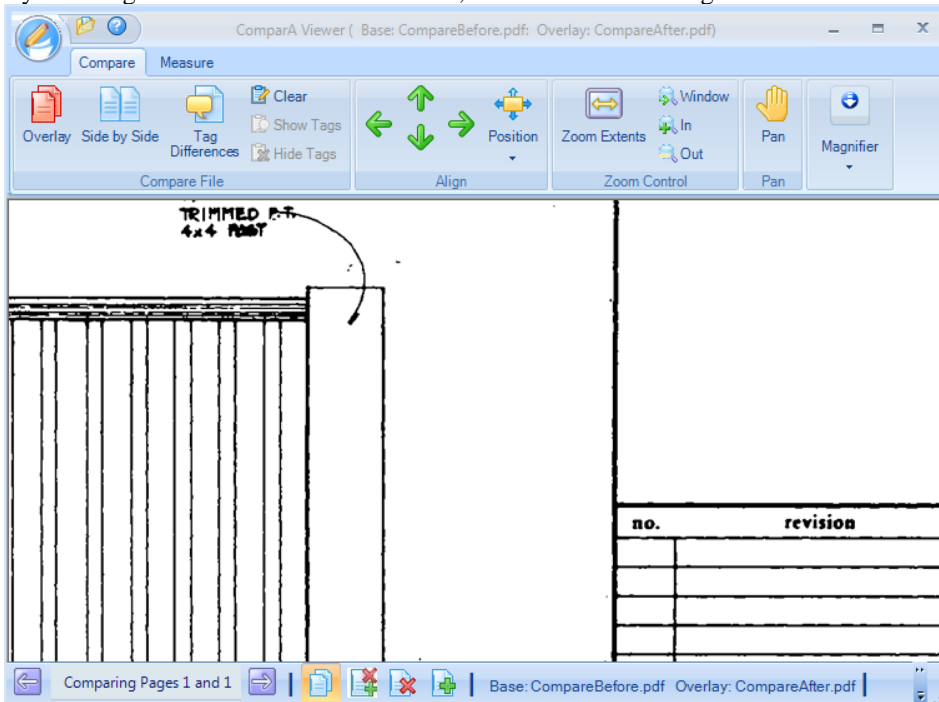
Showing the Differences

By Default, ComPara will initialize by showing the differences between the two documents in accordance with the colors identified for the base and overlay documents. In this example, common data is shown as black while the deleted information contained only in the base document is show **Red** and the new additions found only in the Overlay document appear **Green**.



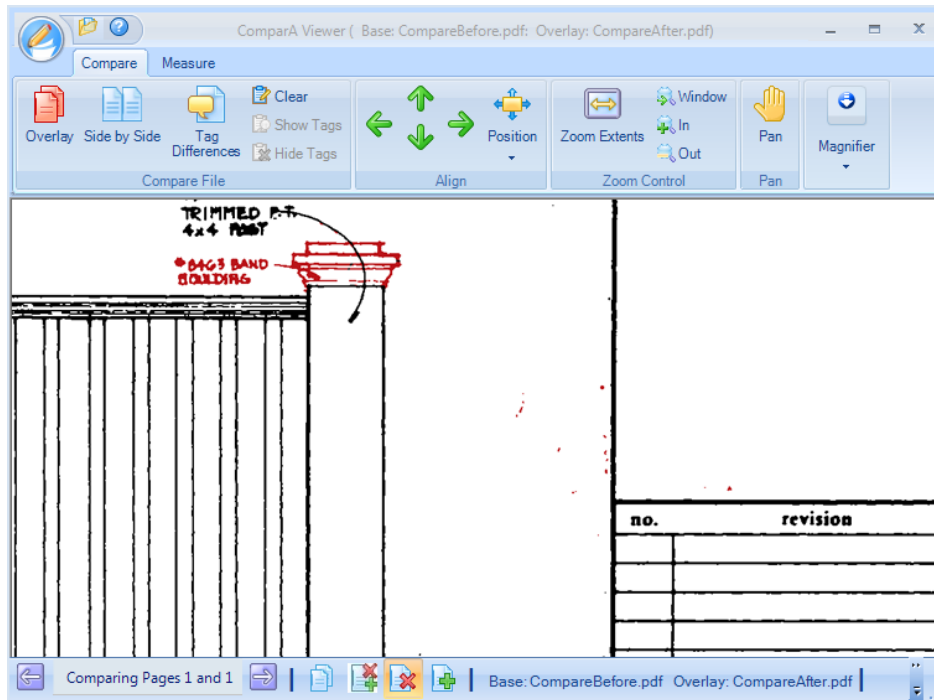
Showing the Common Data

By selecting the Show Common Data icon, users will see the image data found in both documents.



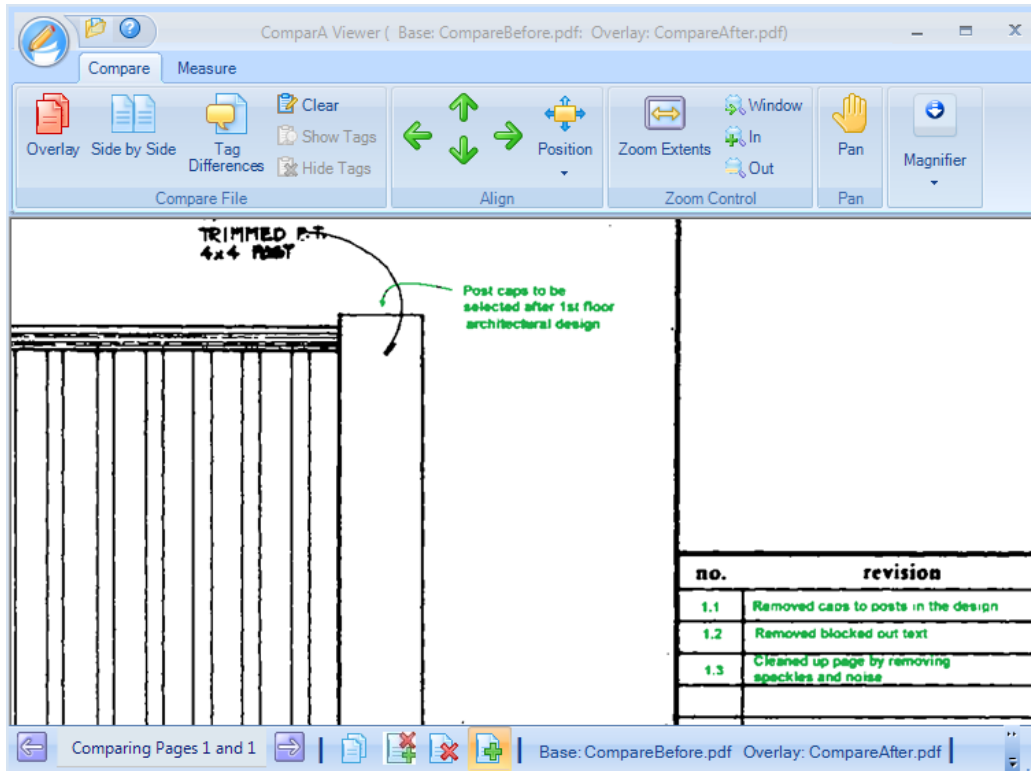
Showing the Deletions

Deletions are what occurs only in the base image and not in the overlay image. These will show up in the color identified as the Base Color in the Preference interface. Common data is shown as black.



Showing the Additions

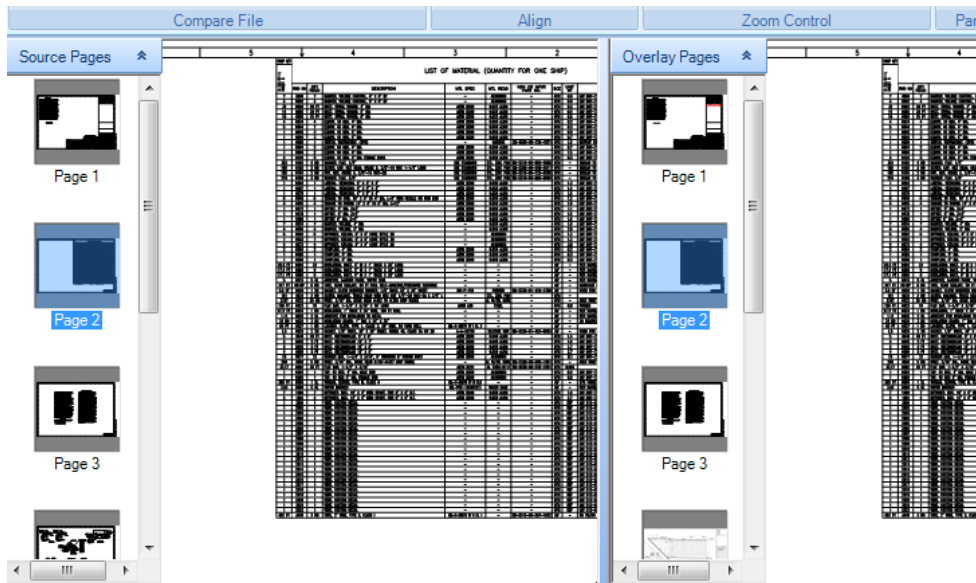
Additions includes data found exclusively in the overlay document and not in the base document. These will show up in the color identified as the Overlay Color in the Preference interface. Common data is shown as black.



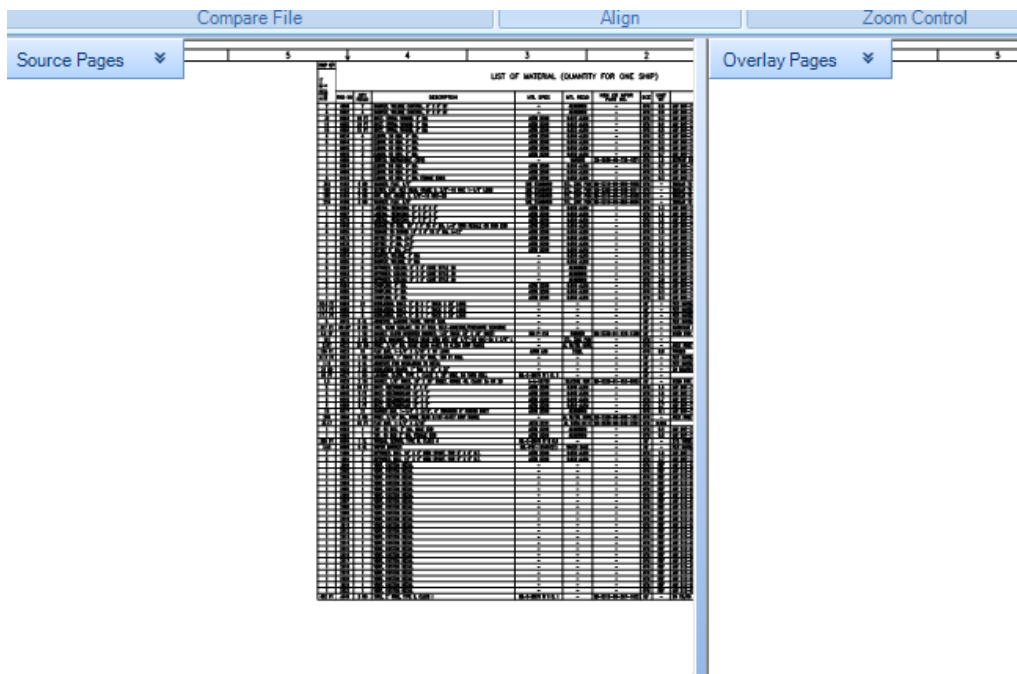
Navigating Multipage Documents

Multipage File Overview

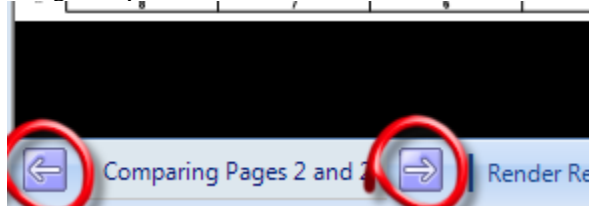
ComPara supports viewing of single and multipage TIF and PDF files. Collapsible thumbnail panels are visible in the side-by-side mode on the leftmost side of each viewport.



Collapsing either panel will collapse the other panel as well as shown below.



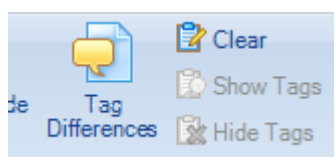
In addition, users can sequence through page sets by selecting the next and previous icons in the lower navigation panel.



Tagging the Differences

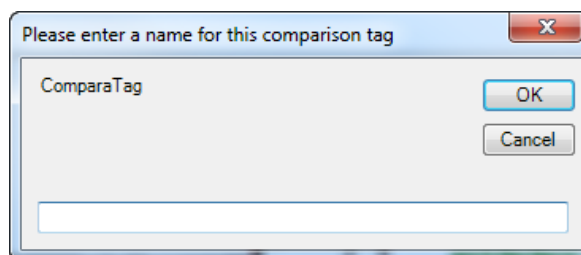
Overview of Tagging Changes

Once you have invoked the overlay comparison mode, you can begin to tag changes found in your document. These tags make it easy to communicate the changes found in your document set. You can do so by saving the comparison tags to a new PDF file or by quickly navigating within the current document.



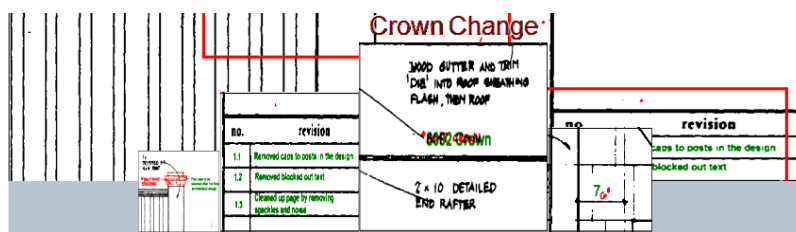
Tagging Comparison Regions:

Zoom to any desired location within the document to begin tag creations by selecting the Tag Differences button. This will invoke a rectangle box allowing you to draw a region into the document. Once you have drawn a box around a region with changes, a dialogue will appear allowing you to create a name for the tag.



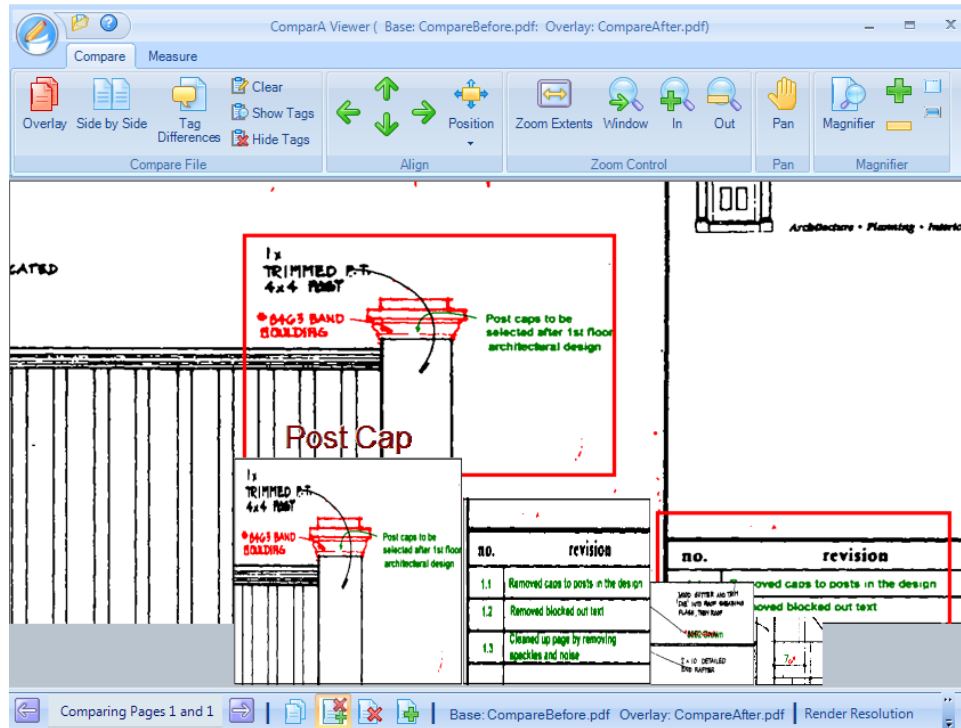
Bubble Bar of Comparison Tags:

ComPara will begin creating a thumbnail bubble bar at the bottom of the display region of each region you create. These bubble tags will expand as you mouse over each one giving you even greater details of the changes occurring in the document. If you select any of these bubble tags, ComPara will automatically zoom to the designated region.



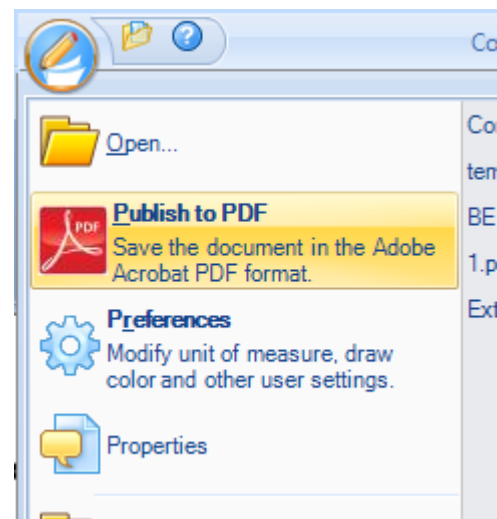
Zooming to Bubble Tags:

If you select any of these bubble tags, ComPara will automatically zoom to the designated region.



Publishing your Tags:

Once you have created tagging all your differences you wish to share, you can export or publish the changes to PDF. From the main application icon, simply select the Publish to PDF button to invoke the export of the changes.

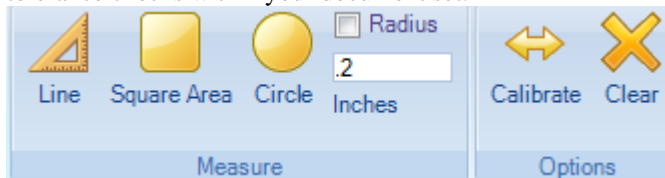


Measuring

Making Measurements with your documents

You can take measurements of distances and rectangle areas on your documents in side by side or overlay mode.

When you invoke the **MEASURE** commands from the Measure Tab on the main screen the Measurements tab appears. This interface provides you tools to perform takeoff measurements and tolerance checks within your document set.



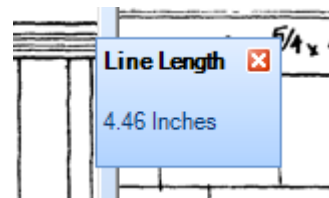
You can click in the Measurements Window with the right mouse button in the white background area to get a menu. The menu contains the following items:

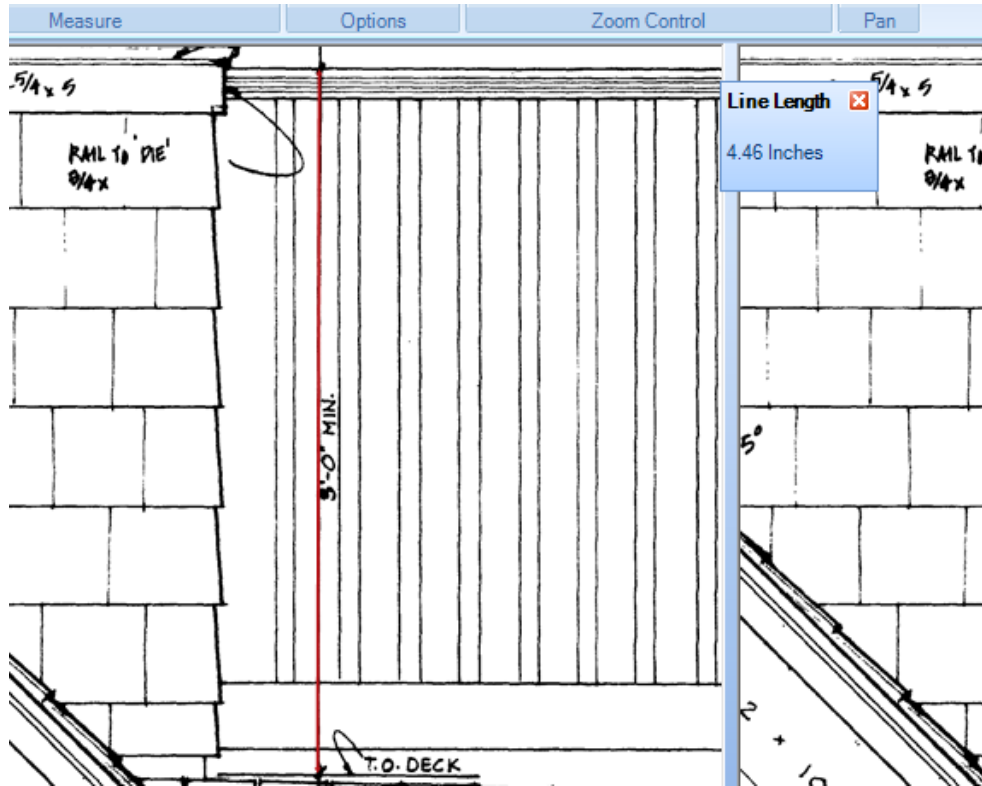
Measurement Units:

Inches
Feet
Meters
Centimeters

To measure Distances on the document:

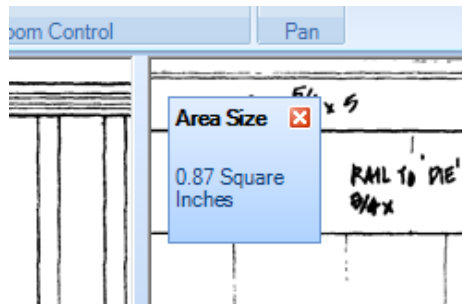
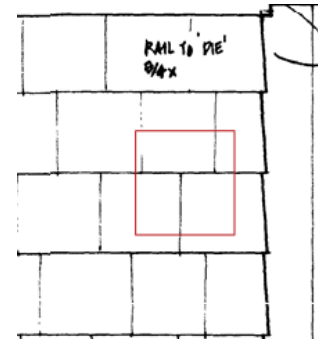
1. Choose the **Line Measure icon**. The cursor becomes a crossbar cursor.
2. Move the cursor to the starting position of the line you would like drawn and measured. In this case we have identified a 36" (3') measurement. Left Click for the line drawing to begin.
3. Move the mouse to the endpoint position and left click again. A line is now drawn in accordance to your annotation color setting found in the Preferences Section. The measurement will now display in a popup box as 4.46 Inches.





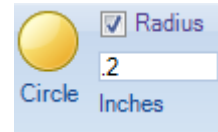
To measure Square Areas on the document:

1. Invoke the **Square Area** measurement tool.
2. Left mouse pick to identify the start position. A rubberband line will now follow your mouse movements.
3. Drag to the desired area and Left mouse pick to identify the end position. A rectangular box is now drawn into the screen.
4. A popup box will now display the area identified by the bounding box.



To measure Circular Interferences on the document:

1. Choose the **Circle Measure tool**. The cursor becomes a crossbar cursor.
2. Select two points on the on the document and ComPara will draw a circle in accordance to your Interference settings. In this example, a .2 Inch Radius circle is drawn on the screen.
3. You can now drag it within your current screen to check for interference issues.

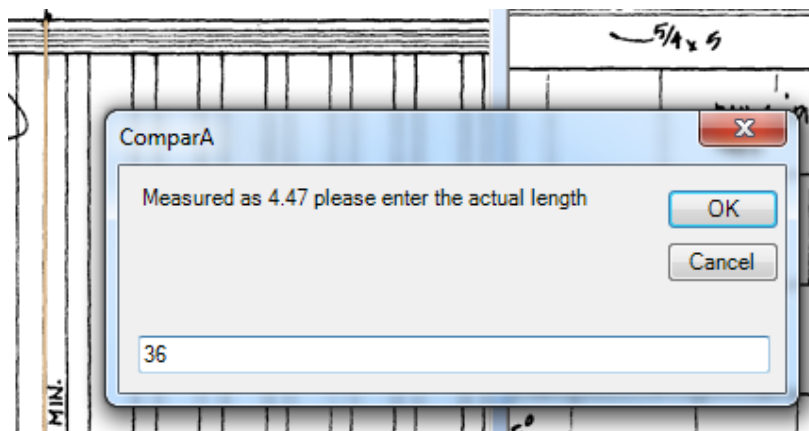


Note: you can change the tool to draw based on a radius or default diameter value.

To calibrate measurements:

Calibration is required when the drawing scale is not exact to the scan or image resolution at the time the document was captured. You can adjust the scale for all future line, area and circle measurements by using the Calibrate tool.

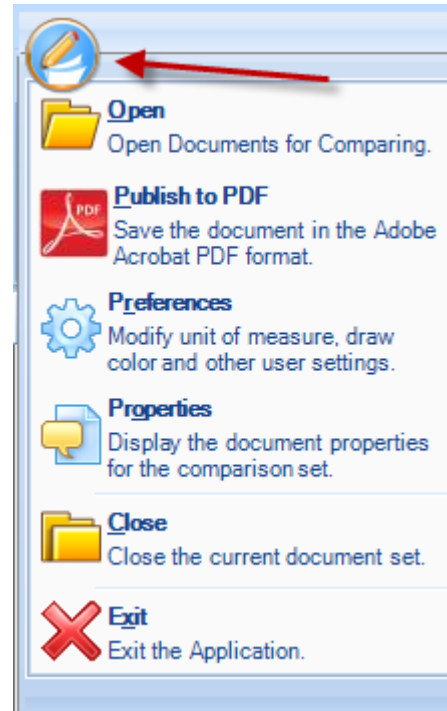
1. Invoke the **Calibrate tool**. This will turn the mouse to a crossbar cursor similar to the line measurement command.
2. Left click to identify the start position. In this example we will use the same line drawn in our sample document that is measured as 3 Feet or 36 Inches.
3. Drag your mouse to the end position and left click again to identify the ending position.
4. A dialog will now appear allowing you to see the measurement length of 4.47 inches. Note the Preferences Settings are use to set the software in your desired unit of measure. Now enter the desired length of 36 Inches for the measured line.



Document File Functions

Document File Interface

With main File handling commands are found by clicking on the ComPara Icon in the upper left most position of the application. This will display a drop down menu item of various commands available to you based on your license privileges.



Opening an Image File



With main File IO **OPEN** command, a standard Windows open file dialog Rectangle is presented where you can browse to the desired file set. You can experiment with files provided with ComPara which are located in the C:\Program Files\DocuFi\ComPara\Samples or in the Samples folder of the directory you installed the program if different.

Closing a File

The **CLOSE** command closes the open document set in ComPara.

Exiting ComPara

To exit the program invoke the **EXIT** command.

ComPara Command Line Options and Usage

ComPara supports a command line interface allowing for easy integration into the application.

Usage:

ComPara.exe FileName [options]

Option	Effect
--------	--------

Option	Effect
-o OverlayFile or -overlay OverlayFile	Display the OverlayFile as the Overlay File for comparison against the base FileName
-single or -nooverlay	Load the FileName as the overlay as file.
-noopen	Don't show the Open command on startup.
-p DestFile Or -publish DestFile	Use the DestFile as the published output filename and path for the PDF tag file.

Command Line Examples

ComPara.exe "c:\path\basename.pdf" -single

compare *c:\path\basename.pdf* to itself.

ComPara.exe "c:\path\this has spaces.pdf" -overlay "c:\path\second version.pdf"

Compare the base file "this has spaces.pdf" with "second version.pdf" in *c:\path*

ComPara.exe c:\path\basename.pdf -o c:\path\overlayname.pdf

Compare *basename.pdf* with *overlayname.pdf*

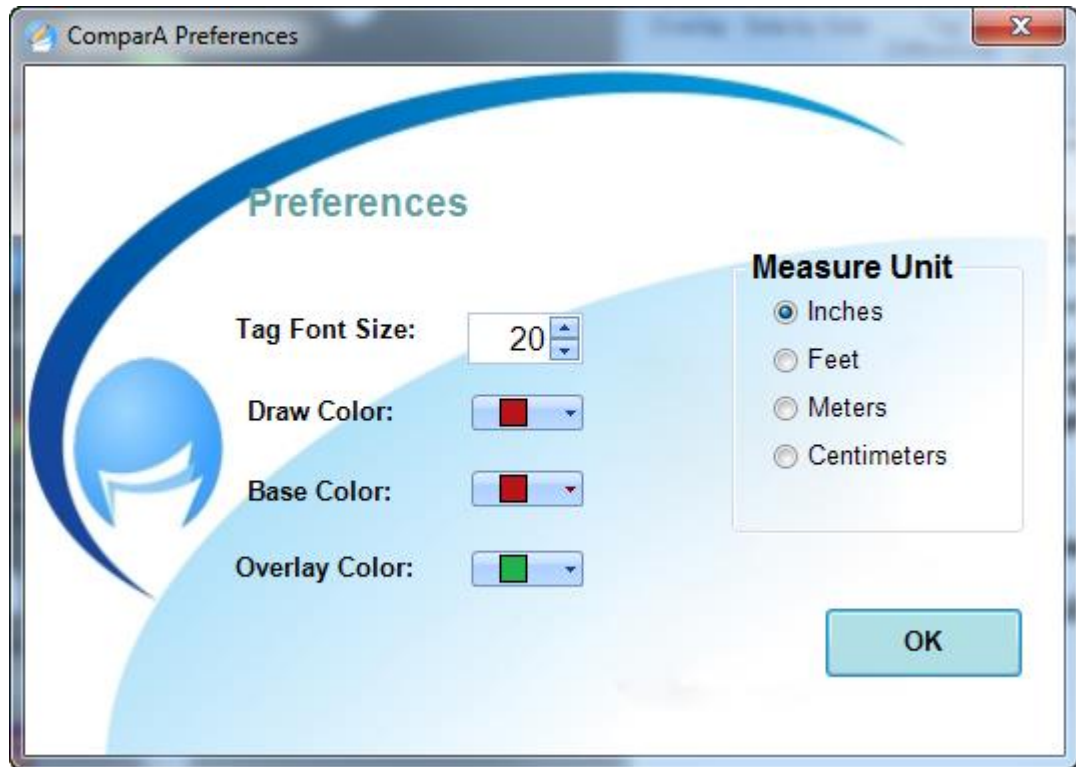
ComPara.exe c:\path\basename.pdf -o c:\path\overlayname.pdf -noopen -p "c:\path\output publish file.pdf"

Compare *basename.pdf* with *overlayname.pdf* with the open command hidden. Send the published output to *c:\path\output publish file.pdf*

Preferences

User Settings

Use the **PREFERENCES** command to set configuration settings for your current and future sessions.



Tag Font Size

Identifies the text font size to use with tag's displayed to identify titles to tagged regions.

Draw Color

Sets the drawing color for the bounding box found on tagged sections of the document..

Base Color

Sets the color for the differences found in the base document .

Overlay Color







Sets the color for the overlay differences found in the overlay document.

Commands and Icons


Introduction





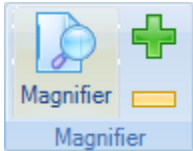
The main method of invoking commands within ComPara is with the tabbed menu bar at the top of the application. This section provides an overview of available commands and icons.

File Menu Commands and Icons

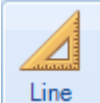
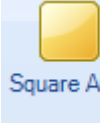

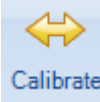

Open Document		Opens the selected document for editing
Publish to PDF		Publishes the tagged differences to a new PDF document.
Preferences		Displays the preference settings interface allowing users to change basic environment colors, sizes and settings.
Properties		Provides information about the document set being compared.
Close		Closes the active document set
Exit		Exits the program.

View Menu Commands and Icons

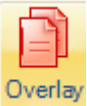
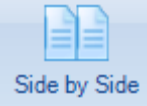
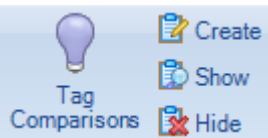

Zoom Extents		Zooms the drawing to the farthest extents of the image
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Zoom Window		Allows the user to select the area with the mouse to zoom in
Zoom In	 +	Zooms in by a user defined incremental value
Zoom Out	 -	Zooms out by a user defined incremental value
Pan		Pans the display based on the mouse displacement. (Left mouse)
Magnifier		Displays a rectangular viewport zoomed in to the area located under the current mouse position. The +/- buttons increase or decrease the zoom factor.

Measure Menu Commands and Icons

Line	 Line	Measures a straight 2 Dimensional line between two designated points,
Rectangle	 Square Area	Measures the area of a rectangular or square Rectangle identified by the mouse down and up selections.
Circle	 Circle	Measures a Circle based on center point and radius
Calibrate	 Calibrate	Allows users to define the scale factor to be used with future measurements.
Clear	 Clear	Removes all measurement and calibration objects from the screen.

Compare/Tag/Alignment Menu Commands and Icons

Overlay Comparison		Loads a file to compare against the active file.
Side by Side Comparison		Display the files in a synchronized side-by-side manner.
Tag Comparisons		Allows users to create tagged regions within documents for fast access to tagged comparisons.
Alignment		Fine tune the alignment of the base and overlay documents using the nudge directions.

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