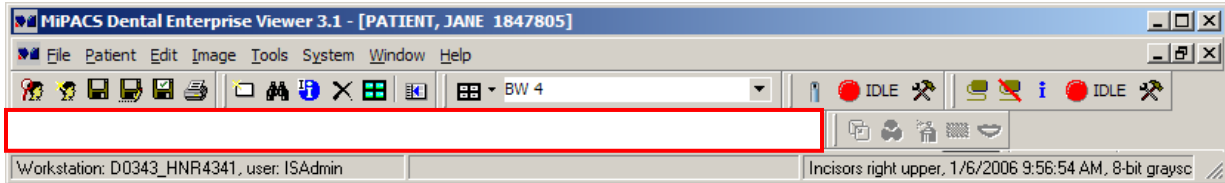


MiPACS feature overview



The red rectangle indicates the editing toolbar.

Note: To use these features, you must select an image (as indicated by a red border around the edge of the image) before you can use any of these buttons.

Image Toolbar:

- **Select:** This is the default pointer button, and doesn't have any functionality.
- **Reset:** Resets the image to its original state, undoing all of the changes made to the image.
- **Undo:** Reverts the image back to its state immediately before the last change made.
- **Redo:** Makes the last change done again.
- **Mirror:** Mirrors the image.
- **Rotate:** Rotates the image 90° Clockwise
- **Brightness/Contrast:** Launches the brightness and contrast control, allowing you to adjust both properties. This is the only way to change the brightness and contrast on an unapproved image; on approved images, left clicking and dragging the pointer performs the same function (the x-axis is brightness and the y-axis is contrast).
- **Invert:** Inverts the image colors (black to white and white to black)
- **Stretch Histogram:** Launches the stretch histogram control, which accentuates differences for values between the two bars and reduces differences for all other values.
- **Optimize Brightness:** We don't use this button.
- **Equalization:** This brings up a small circle, in which the contrast is exaggerated. The lightest color becomes white, and the darkest becomes black. This is similar to the function of the Stretch Histogram button, but only for a small area. The size of the circle can be changed using the scroll button on the mouse.
- **Colorize:** This gives the image a false color to assist in differentiating changes in the image.
- **Noise Reduction Tool:** Reduces the noise (random spots) on an image.
- **Edge Enhance:** This increases the contrast of the entire image. The down arrow just to the right of the icon allows you to select the strength of the edge enhancement.

Analysis Toolbar:

- **Magnifier:** This brings up a magnifying glass icon, and using this to left-click over the image creates a circle that magnifies the part of the image that it's over.
- **Zoom:** Brings up the zoom icon, and using this to left-click on the image zooms in on the area clicked.
- **Fit Image to Frame:** Restores the image to its original size in the frame
- **Fit Image to Screen Resolution:** Changes the image size so that each pixel of the image is represented by one pixel on the computer's screen.
- **Ruler:** Clicking this button puts you into ruler mode, as well as annotation mode. When in annotation mode, typical commands or interactions with the image do not work; this has been a common cause of not being able to move an image around in a template. To use the ruler, position the cursor over the start position on the image and left-click and hold the mouse button down. While holding, drag the cursor to the end point and release the mouse button. The length of the line will appear once you have completed your measurement.
- **Multi Line Ruler:** This works like the standard ruler, except the creation of measuring lines is different. To start a multi-line, left-click and release, then move the cursor to the next point. Left click again to re-anchor the line, and then keep moving. You can keep left clicking to create new line segments, and when you're done right-click on the endpoint to stop creating new line segments. The length shown is the sum of the lengths of the line segments.
- **Protractor:** This also functions similarly to the ruler. The first left-click creates an anchor point, the second left-click is the first endpoint, and the third left-click is the second endpoint.
- **Show/Hide Histogram:** This brings up a histogram of gray values used in the image.
- **Annotation Button:** This is a toggle to show whether or not annotations show up. The rulers and protractor show up here, as well as any annotations placed on the image. Additional annotations can be added by clicking on the down triangle just to the right of the button.

NOTE: If the Annotation button is depressed (it is a toggle), you cannot click and drag images around in a template (for unapproved images) or change the brightness and contrast by clicking and dragging (for approved images).

MiPACS Features

Printing:

1. Select series to be printed.
2. Click the <Print> button on the toolbar.
3. Select the printer from the drop-down menu.
4. Select current series layout

Compare Series:

1. Select the series you would like to view using the x-ray listing to the left.
2. Select your second series by using the <Ctrl> key on your keyboard.
3. Once you have selected each series, go to <Images> on your toolbar and select <Compare>.

Compare Individual Radiographs:

1. Highlight the individual radiograph to be compared.
 2. Use <Ctrl> <C> to copy image. (Do this for each image to be compared)
- Use the <Presentation Overview> button on your toolbar to view copied images. (This is the bluish green window-looking button on the toolbar)

Note: These images are copied in your clipboard, you will need to clear your clipboard to compare future images. To erase images in the clipboard, go to <Edit> on your toolbar and select <Clear Clipboard>

Export Images:

To export images, use the <Export Images> feature located in the <Images> section of your toolbar.

Note that unless you are going to import your images into a DICOM reader such as MiPACS, you will want to export your images as a .jpg or .tif