

# Dicom Viewer Quick Reference Guide

- Layout Tools Table

Tool Name	Description	Image
<b>Compose Layout</b>	Used to utilize the <a href="#">Saving Hanging Protocol</a> , <a href="#">Save Study Structured Display</a> tool, and the <a href="#">Delete Study Structured Display</a> tool.	
<b>Save Hanging Protocol</b>	Used to save the Hanging Protocol settings.	
<b>Save Study Structure Display</b>	Used to save any manipulation done when in the <a href="#">Compose Layout</a> settings.	
<b>Delete Study Structured Display</b>	Used to delete a previously saved Study Structured Display.	
<b>Change Series Layout</b>	Used to change how the series is viewed.	
<b>Change Study Layout</b>	Used to change how to view the study.	
<b>Delete Cell</b>	Used to unload a series from the selected Image Box.	

- Window Viewing Options Tools Table

Tool Name	Description	Image
<b>Fit</b>	Returns an image that has been zoomed in to the size of the original frame holding the image.	
<b>One to One</b>	Zooms in (or out) on an image so that it is displayed at the same resolution as the screen.	
<b>Sort Series</b>	The <a href="#">Sort Series</a> tool is used to sort a multi- frame/multi-image instance series.	

- Saving Images Table

Tool Name	Description	Image
<b>Capture</b>	Used to save jpg image of the Viewer onto your computer.	
<b>Save as Derived</b>	Used to save a processed image into a new series	

- Syncing Image Tools Table

Tool Name	Description	Image
<b>Link Images</b>	Used to link all the images within a stack/series to change when one image is manipulated	

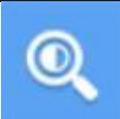
<b>Link Cells</b>	Used to link multiple series (image cells) for manipulation.	
<b>Toggle Study Time Line</b>	The <b>Toggle Study Time Line</b> tool is used to show all available series that are for the selected patient.	
<b>Synchronize Series</b>	Used to make all images in different series that have the same stack orientation to have the ability to be scrolled in sync.	
<b>Scroll Frame</b>	The <b>Scroll Frame</b> tool is used to scroll a frame at a time when viewing a stacked series in grid view.	
<b>Scroll Row</b>	Used to scroll a row at a time when viewing a stacked series in grid view.	
<b>Scroll Column</b>	Used to scroll a column at a time when viewing a stacked series in grid view.	
<b>Scroll Page</b>	Used to scroll a page at a time when viewing a stacked series in grid view	
<b>Toggle Cine</b>	Used to animate an image stack.	

- Manipulation and Analysis Tools Table

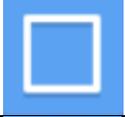
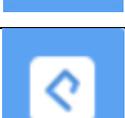
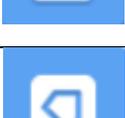
Tool Name	Description	Image
<b>Probe Tool</b>	Used to identify the actual pixel value underneath the cursor, while also giving the (x,y) coordinates for location referencing.	
<b>Window Level</b>	Used to adjust the brightness and contrast of an image.	
<b>Custom Window Level</b>	Allows custom brightness and contrast templates to be used to manipulate an image.	
<b>Invert</b>	Used to make the image the complete opposite color from what is displayed.	
<b>Rotate Clockwise</b>	Used to rotate images 90 degrees clockwise.	
<b>Rotate Counterclockwise</b>	Used to rotate images 90 degrees counterclockwise.	

<b>Flip</b>	Used to mirror an image horizontally.	
<b>Reverse</b>	Used to mirror an image vertically.	
<b>Align Center</b>	Used to center the image along the y-axis in the viewer	
<b>Align Left</b>	Used to bring the image to the left side of the viewer along the y-axis.	
<b>Align Right</b>	Used to bring the image to the right side of the viewer along the y-axis.	
<b>Align Top</b>	Used to bring the image to the top of the viewer along the x-axis.	
<b>Align Bottom</b>	Used to bring the image to the bottom of the viewer along the x-axis.	

- Adjusting Image Viewing Tools Table

Tool Name	Description	Image
<b>Pan</b>	Used to move the image around the area of the screen.	
<b>Zoom</b>	Used to zoom in on the image.	
<b>Reload</b>	Used to reset back to the original image.	
<b>Shutter Object</b>	Used to take a geometric mask of combined shapes in order to neutralize the display of pixels located outside of the shutter shape	
<b>Spyglass</b>	The Spyglass tool used to look at the image through a focused magnified image.	
<b>Spyglass Invert</b>	Used to look at the image through the invert function but in a more focused view than the whole image.	
<b>Spyglass Clahe</b>	Clahe stands for Contrast Limited Adaptive Histogram Equalization. The <a href="#">Spyglass Clahe</a> tool used to view the magnified image in enhanced contrast.	
<b>Spyglass Reveler</b>	Used to view the magnified image through a specialized image processing filter.	

- Annotation Images and Measurement Tools Table

Tool Name	Description	Image
<b>Select</b>	Used to have a default cursor.	
<b>Arrow</b>	Used to draw an arrow.	
<b>Point</b>	Used to create a small circle with an x in the center.	
<b>Rectangle</b>	Used to create an outline of a rectangle.	
<b>Ellipse</b>	Used to create an outline of an oval.	
<b>Curve</b>	Used to draw a line that will have a curve in it.	
<b>Line</b>	Used to create a line.	
<b>Free Hand</b>	Used to create a line in any direction on the x,y-axis plane.	
<b>Polyline</b>	Used to create a straight line in any direction within the x,y-axis.	
<b>Polygon</b>	Used to create a polygon in any shape.	
<b>Text</b>	Used to create a text box that will overlay on the image.	
<b>Note</b>	Used to create a sticky note that will be displayed on the image.	

<b>Highlight</b>	Used to create an area that will be highlighted.	
<b>Text Pointer</b>	Used to create a text box and an indicating line.	
<b>Ruler</b>	Used to measure the actual distance from one point to another on an image (Refer to <a href="#">Measurement Tools</a> ).	
<b>Poly Ruler</b>	Similar to the Ruler tool but used for non-linear measurements (Refer to <a href="#">Measurement Tools</a> ).	
<b>Protractor</b>	Used to measure angles (Refer to <a href="#">Measurement Tools</a> ).	
<b>Show/Hide/Annotations</b>	Used to toggle all of the annotations on the image, on and off.	
<b>Delete Annotations</b>	Used to delete selected annotations.	
<b>Clear Annotations</b>	Used to remove all the annotations from a single selected image just by clicking the button.	
<b>Clear All Annotations</b>	Used to remove all the annotations on an entire series.	
<b>Save Annotations</b>	Used to save any annotation to a selected image.	

- 3D imaging tools Table

Tool Name	Description	Image
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<b>Show Reference Line</b>	Shows the intersection of the selected image within an orthogonal/oblique stack (3D image).	
<b>Show First and Last Reference Line</b>	Shows where the first and last image in the Image set are located.	

- DICOM Imaging Table

Tool Name	Description	Image
<b>Toggle Overlays</b>	Used to toggle the main DICOM tags on and off.	

- Audio Tools Table

Tool Name	Description	Image
<b>Waveform Basic Audio</b>	Allows for any audio notes associated with the DICOM file to be listened to.	