GE HealthCare

Centricity™ Universal Viewer Zero Footprint Client DICOM® Viewer
Tools, Icons and Keyboard Shortcuts Job Aid

Intended Audience: Radiology and Cardiology users

Applicable Foundations: Centricity PACS (CPACS), Centricity PACS-IW, Enterprise Archive (EA) and Edison True PACS

Toolbar Tools/Icons

Icon	Name	Description
	Study Search	Display the Study Search screen. **Note:** If launching via an external system, this option may be disabled.
	Navigator	Toggle Navigator open/closed to view structured report, key image notes or studies in the ZFP viewer.
	Series Selector	Toggle Series Selector open/closed to access comparison exams for the selected patient.
	Layout	Change the layout of the active viewport. The toolbar shows the currently displayed layout in the active viewport.
	Sheet View Layout	Hover over to create a sheet view layout in the active viewport. Once the sheet view is created, the sheet view controls display in the toolbar.
	Scroll	Scroll through images in a series.
	Zoom	Zoom in and out on an image. The drop-down menu includes: ○ Original Resolution: Resize the image to its original captured image size. ○ Zoom to Fit: Resize the image to its maximum size inside the viewport without cropping. ○ 2x: Resize the image two times the original resolution. ○ 3x: Resize the image three times the original resolution. ○ 4x: Resize the image four times the original resolution.
	Pan	Activate the pan tool.

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Software Version 6.0 SP11.5
Document Revision 1
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<table>
<tr><th>Icon</th><th>Name</th><th>Description</th></tr>
<tr><td> </td><td>Window/level</td><td>Activate the window/level tool.</td></tr>
<tr><td> </td><td>Invert</td><td>Invert the grayscale of the image in the active viewport.</td></tr>
<tr><td> </td><td>Flip Rotate</td><td>Options in the drop-down menu include:
 Rotate an image to the right.
 Flip an image vertically.
 Flip an image horizontally.</td></tr>
<tr><td> </td><td>Annotations and Measurements</td><td>Options in the drop-down menu include:
<table>
<tr><td> </td><td>Distance</td><td>Measure distance.</td></tr>
<tr><td> </td><td>Angle</td><td>Draw a normal angle or Cobb angle.</td></tr>
<tr><td> </td><td>Elliptical Region</td><td>Draw an elliptical region around a region of interest (ROI).</td></tr>
<tr><td> </td><td>Ellipse</td><td>Draw an ellipse (oval) around a region of interest.</td></tr>
<tr><td> </td><td>Point Measurement</td><td>Measure the pixel value of a point (Hounsfield units).*</td></tr>
<tr><td> </td><td>Freehand Region</td><td>Draw a region of interest and the measurement value is displayed.**</td></tr>
<tr><td> </td><td>Freehand</td><td>Draw a freehand region of interest without a measurement value.*</td></tr>
<tr><td> </td><td>Rectangle</td><td>Draw a rectangle around a region of interest.</td></tr>
<tr><td> </td><td>Text</td><td>Create a text annotation.</td></tr>
<tr><td> </td><td>Arrow</td><td>Add an arrow pointer as an annotation.</td></tr>
<tr><td> </td><td>CTR Measurement</td><td>Perform a CTR measurement of the heart and chest.</td></tr>
<tr><td> </td><td>Rectangle Shutter</td><td>Neutralize (exclude) the display of any pixels located outside of a shutter shape.</td></tr>
</table>
*This tool is only available in version 6.0 SP11.5 and higher.
**For version 6.0 SP11.5, this tool was renamed to "Freehand Region". In versions prior to 6.0 SP11.5, this tool was called "Freehand". No changes were made to its functionality.</td></tr>
<tr><td> </td><td>Overlay</td><td>Show or hide the image overlays.</td></tr>
<tr><td> </td><td>Cross Reference</td><td>Turn on or turn off the cross-reference lines.</td></tr>
<tr><td> </td><td>Presentation State</td><td>Apply a different presentation state or reset a presentation state.</td></tr>
</table>

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Icon	Name	Description
	Bookmarked Images	Apply a bookmark from a drop-down list of bookmarks referenced in the current study. This icon is disabled when no bookmarks are referenced in a study.
	Synchronize	Synchronize parallel series. This icon is disabled for multi-frame images.
	External Application	Launch a web-based external application from the drop-down menu.
	Share Study URL	Copy or email a study URL. The email recipient can open the study by clicking the URL from the email. (Email recipient must be a valid ZFP user.)
	Reports/Notes	Display a report or clinical document associated with a study (if available for that study).
	Reset	Remove all annotations and manipulations from the active viewport.
	MIP/MPR	Hover over this icon to construct standard MPR, MIP, or volume rendering (VR) images for a study.
	Logout	Log out of ZFP.
	Lossy/Lossless Image Quality	When this icon is selected, lossless progression is disabled for image display. Images are loaded as lossy only. When this icon is not selected, lossless progression is enabled for image display. This is the default. **Note:** The tooltip shows the current network bandwidth. ZFP tests your network speed after downloading all lossy images for a study. If your network speed is 25 Mbps or lower, then ZFP selects this icon while the images are loading so that you can view images faster.
	About	Open the About dialog box. This icon is for the ZFP desktop version only.
	Help	Options in the drop-down menu include: ○ **User Manual** - Open the ZFP online help. ○ **System Prerequisites** - Display the System Prerequisites dialog box. This dialog box contains the optimal ZFP system prerequisites related to browsers, operating systems, display size, and product model. ○ **Help Guide** - Display static ZFP UI images with tips that highlight basic areas of functionality, such as how to navigate the Study Search screen, and tips for image navigation and manipulation. Not supported on mobile phones.

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Icon	Name	Description
		○ **Security and Privacy** - Display the Security and Privacy screen. This informational screen is intended to remind users about their privacy and security obligations

Keyboard Shortcuts

Keyboard Shortcut	Action
Press and hold right arrow key	Scroll through the next images
Press and hold left arrow key	Scroll through the previous images
Press down arrow key	Next series
Press up arrow key	Previous series
Press Insert key	Middle image in series
Press Home key	First image in series
Press End key	Last image in series
Press right arrow key	Next image in series
Press left arrow key	Previous image in series

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