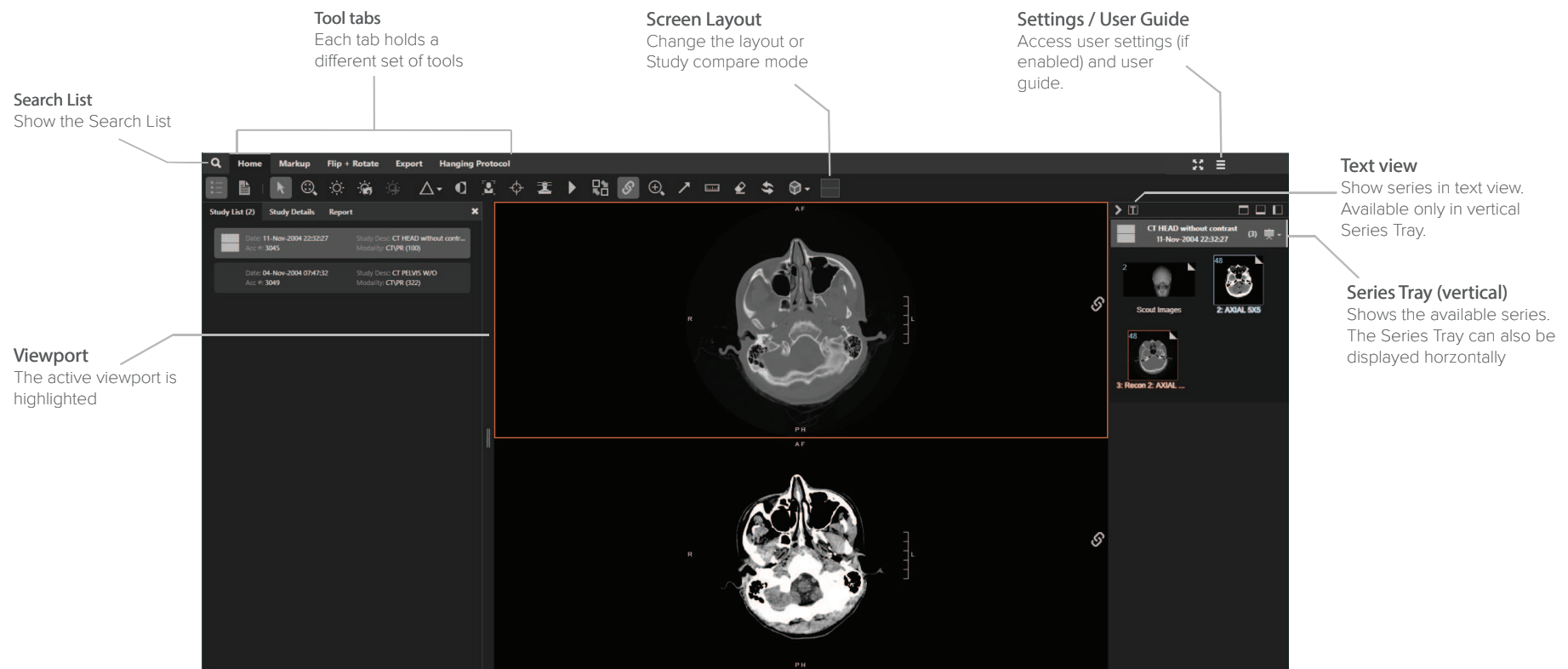


eUnity™ 7.0 Enterprise Quick Start Guide

This document is not intended to be comprehensive. It is intended only as a quick reference or as a training support. Please see the eUnity User Guide for the complete product documentation.

eUnity™ is a zero-footprint diagnostic imaging viewing application for accessing full quality medical images on any web browser. Log in from a worklist manager or directly through a URL depending on your site's configuration. For example: <http://localhost>.



Series Tray (horizontal)



1 Series thumbnail view

Click the series thumbnail or drag it into a viewport to open it. The active series is outlined in orange. The series in view but not active are outlined in blue. The folded corner means at least one image was viewed in the series.

2 Study folder

Each rectangular folder represents a study that is available for the patient. The lighter gray background is the study that is currently active in the Series Tray.

3 Presentation States indicator

Presentation States available for the study. Click to select a Presentation State.

4 Study position indicator

Study position on the screen. If no indicator is shown, the study is not in view.

5 Pin the Series Tray

Pin the Series Tray in position or unpin it so that it is hidden when it is not active.

6 Reposition the Series Tray horizontally or vertically (HTML5 only)

Reposition the Series Tray at the top, bottom, left, or right of the screen.

Default mouse actions

Left-click
 Drag up and down to scroll images
 Drag+ Ctrl + Shift to reposition series
 Double-click to enlarge viewport

Scroll wheel
 Roll up and down to scroll images
 Drag to zoom
 Drag + Ctrl to triangulate

Right-click
 Drag left and right to change Window Width
 Drag up and down to change Window Level
 Drag then Ctrl for fine Window Level
 Shift then drag to pan
 Click to show context menu

View keyboard / mouse shortcuts

- To see the keyboard shortcut for a specific tool, hover your cursor over the tool on the toolbar.
- To see a list of all your keyboard shortcuts, in the upper-right corner of the viewer, click > List Keyboard / Mouse Shortcuts.

Commonly used / default keyboard shortcuts

Home	Go to first images in the stack	K	Toggle Link Series
End	Go to last images in the stack	E	Toggle Ellipse ROI
Key Up	Scroll images (descending)	L	Toggle Linear Measurement
Key Down	Scroll images (ascending)	O	Revert to Original
Key Left	Previous series into active viewport	1-9	Apply Window Level Preset
Key Right	Next series into active viewport	Z	Toggle Pan / Zoom

Tools

Home



Study List (if available)

Open a panel containing information grouped into the following tabs: Study List, Study Details, Report, and Notifications.



Report / Comments

Open the study report in the Study Information panel, if available.



Navigate

Navigate study images using the mouse wheel, a left-click drag, touch drag, touch pad drag, or the up and down cursor keys.



Zoom / Pan

Zoom in on or pan an image in the selected viewport.



Window Level

Change the Window Level for the selected image.



Reset Window Level

Reset the images to their original Window Level settings.



Window Level Presets

Select a predefined Window Level.



Image Sharpening Presets

Click to apply a preset sharpening algorithm on an image in a viewport. Presets are configurable by the system administrator.



Invert Brightness

Click to apply a monochrome inversion to the selected series.



Toggle Demographics

Hide or show demographics in the viewport.



Triangulation

Navigate to a selected point in orthogonal series.



Toggle Reference Lines

Show or hide overlay lines when using triangulation or scout images.



Toggle Cine mode / Play video

Play a series of images in succession (like a movie) or play a video.



Series Reposition

Swap series between viewports.



Link Series

Link series together to use zoom, pan, scroll, and optionally Window Level across multiple series.



Magnifying Glass

Click to enable the Magnifying Glass tool and magnify an area of an image. You can have up to four magnifying glasses open at a time.



Revert to Original

Revert a series to its original presentation.



Share this Session

Share your screen with other participants across all supported eUnity™ platforms (desktop web browser and mobile devices).



Screen Layout

Access Study Compare mode or change the layout of each monitor.

Markup

To draw markups, either left-click and drag or left-click to start the markup and left-click again to end the markup.



Eraser

Erase a measurement or annotation.

Measurement tools



Linear Measurement

Measure length in mm or measure time and velocity for echo ultrasound. Time doppler ultrasound regions will create peak velocity with a single click.



Perpendicular tool

Use the perpendicular tool to draw two lines that intersect at a 90° angle and provide a measurement of each line.



Ratio tool

Use the ratio tool to draw two separate lines and provide a measurement of each line as well as the ratio of the length of the first line (x) to the second line (y). That is, x/y .



Angle Measurement

Left-click to create the vertex. The next two left-clicks set the other points of the angle.



Cobb Angle Measurement

Measure angles using two separate, disjoint lines.



Toggle Markup

Hide or show markup on images including markup on Presentation States.

ROI tools

Display the Area, Perimeter, Radius, Average and Standard Deviation of the region of interest (modality-specific). The following additional values can be configured to display: ROI Pixel Count, ROI Size, ROI Minimum SUV, ROI Maximum SUV, ROI Updated SUV Parameters, ROI Min and Max values. Hounsfield (HU) is displayed for CT. SUV measurement is displayed for PET / CT.



Ellipse ROI

Draw an ellipse region of interest.



Circle ROI

Draw a circular region of interest.



Rectangle ROI

Draw a rectangular region of interest.



Freeform ROI / Doppler Envelope

Draw a freeform region of interest. For cardiology, peak and mean velocity and peak and mean gradient are shown.



Point Tool

Measures the value of a specific point.

Annotation tools



Arrow

Add an arrow annotation.



Freehand

Add a freehand annotation.



Line

Add a line annotation.



Polygon

Add a polygon annotation.



Rectangle

Add a rectangle annotation.



Circle

Add a circle annotation.



Ellipse

Add an ellipse annotation.



Spine Labeling

Add spine-related labels to images.



Toggle Spine Labeling Markup

Hide or show spine labels.



Delete All Spine Labels

Delete all spine labels in the study.



Text Annotation

Click the location that the text should start.

Export



Export image to JPEG / PNG

Export an image to your local device in JPEG or PNG format.



Paper Print

Print reports, images, or a set of images.

Flip and Rotate



Flip (Horizontally)

Click to flip the image horizontally in the viewport.



Flip (Vertically)

Click to flip the image vertically in the viewport.



Rotate Left

Click to rotate the image counter-clockwise in the viewport.



Rotate Right

Click to rotate the image clockwise in the viewport.



Free Rotate by Drawn Angle

Rotate the image by a custom amount in the viewport. Draw a line to rotate the image.

Other tools

These tools may not be available by default.



Manual Calibration

If the modality-provided calibration is not sufficient, manually set a calibration value for measurements.



Multiphase Tool

Split a multiphase series into multiple phase-based series or sort a multiphase series by phase.

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Series Page Backward

Move to the previous series page.



Series Page Forward

Move to the next series page.

Clone Series



Clone a series so that you can see a copy of the series and the original series in the viewer at the same time. As a shortcut, right-click and drag a series from the Series Tray into the viewing area to clone it.



Close Clones Series

Close the cloned series and remove it from the Series Tray.



Switch Studies

Select a study to switch to. If you switch away from a study and then switch back to it, it is reopened to the state in which you left it.



DICOM Header

Show the DICOM header data for the selected series or image.

Advanced Visualization (if available)

Advanced Visualization modes



Select Advanced Visualization modes such as 3D, MPR, Advanced MPR, Curved MPR, and Fusion.

Advanced Visualization layouts

Once you are in an Advanced Visualization mode, select a layout.



MPR

Create oblique



To generate new planes, drag the controls corresponding to the color of the viewport you wish to change until desired orientation is achieved.

Curved MPR

Create Curved MPR



Click along curved anatomy in any of the 2D viewports and the perpendicular reconstruction is created in the CMPR viewport.

3D

Clip Box



Cut away some of the volume so that you can better see underlying anatomy. Drag down to move the plane into the volume (cut more). Drag up to move the plane out of the volume (cut less).

Cut Plane



Use the Cut Plane tool to cut away some of the volume at a custom rotation.

Scalpel Tool



Remove or isolate a section of an image by dragging the mouse along the border of the area to segment then clicking on the region you would like to keep.