# **Quick Reference: IMPAX Volume Viewing MIP/MPR**

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### Launching the application

- 1. Open a study for display in IMPAX Image area.
- 2. Click the Volume Viewing icon. If relevant, the Series Selection Box opens.
- 3. Select one series and click OK. The application opens in Viewing mode with the selected series displayed.

#### Image manipulations

	Action
Scroll	Hold down the left mouse button and drag the mouse up/down. Or use the mouse scroll wheel.
Zoom	Select the zoom tool <sup>*</sup> , and use the mouse scroll wheel. Or hold down the right mouse button and drag the mouse up/down.
Pan	Select the zoom tool <sup>*</sup> , hold down the left mouse button and drag the mouse up/down. Or hold down both left and right mouse buttons and drag the mouse up/down.
W/L	Select the W/L tool <sup>*</sup> , left click on the image and move the mouse, then right click to exit. Or hold down the middle mouse button and drag the mouse.
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\* The zoom tool 22 and window/level tool 22 can be selected from the top toolbar or the right-mouse-click menu.

## Using Window/Level presets

The application also contains a set of default W/L presets. You can access and configure these presets by right clicking the W/L icon in the top toolbar.

Changing	the	crosshairs
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- You can show/hide the crosshairs by clicking the **Cursor Mode** button in the left toolbar, or by pressing 'X' on the keyboard.
- You can change the gap size of the crosshairs by moving the **Crosshair slider**.



# **Placing Mark-ups**

It is possible to place mark-ups on the images.

1. Click the arrow next to the **Mark-up** button in the top toolbar.



5 mm

- 2. Select one of the mark-up options in the dropdown menu.
- 3. Place the selected mark-up on the image.
- 4. Right-mouse-click to attach the mark-up to the image.

# Changing projection method and slab thickness

Move the mouse cursor to the bottom of a viewport, and...

- 1. select a **projection method** from the dropdown menu.
- 2. move the slice thickness slider.

Pressing a number on the keyboard will also set the slice thickness (in mm).

### Performing (double) oblique MPR

- 1. Move the mouse cursor over the outer end of a crosshair, until the cursor indicates the rotate action.
- 2. Hold down the left mouse button and drag the mouse to rotate the crosshairs.

#### **Creating secondary captures**

- 1. To capture a single viewport, select **Create capture** from the right-mouse-click menu.
- 2. To capture all viewports, select **Create capture of full screen** from the right-mouse-click menu.

To delete a capture, select it in the Captures panel, and press 'Delete' on the keyboard.

Click the **Save to PACS** button in the Captures panel to save the secondary captures as a new series of images.

#### Performing curved reformations

- 1. Select the **CPR mode** from the top toolbar.
- 2. Activate the **curve tool** on the top toolbar.
- 3. Click on the MPR to draw the curve.
- 4. Finish drawing the curve with a rightmouse-click.
- 5. Activate the **curve tool** again to restart drawing the curve.



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## **Reformatting Mode**

In **Reformatting** mode, you can create new a series of images (with different slice orientation and thickness), and save it to IMPAX.

- 1. Select the **Reformatting** mode from the top toolbar.
- Change the slice settings (slice thickness, number of slices, orientation, etc.) in the top toolbar. The resulting new series is displayed in the top-left viewport.

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PACS

- 3. Use the clipping planes and crosshairs to adjust the size and orientation of the reformatted volume.
- 4. Save the reformatted series by clicking the **Save to PACS** button.
- 5. Enter a series description and click **OK**.

Alternatively, in **Viewing** mode, select **Export series** from the right-mouse-click menu to copy the MPR settings to **Reformatting** mode.

# **Closing the application**

Click the **Close** button on the top toolbar. The application also closes when you navigate to another patient in IMPAX.

#### **Keyboard shortcuts**

- F1 F12Apply window/level presetsXShow / hide crosshairsZZoom & pan mode0 9Set slice thickness
- 0 9 Set suce thickness
- A, C, S Set view to axial, coronal, sagittal

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	General		log	
*	Show / hide crosshairs.			
÷	Window/level (presets).	0	мі	P/MPR Viewing mode
A	Text annotation.		Sele	ect a screen layout.
E	Distance measurement.			
☆.	Angle measurement.		Ref	ormatting mode
0	Circular ROI.	10	Set	the reformatted dataset to axial slices.
$\langle \zeta \rangle$	Polygon ROI.		Set	the reformatted dataset to coronal slices.
7	Arrow annotation.	1	Set	the reformatted dataset to sagittal slices.
Ø	Delete annotation.		Link	x / unlink slice thickness and distance.
Ð	Reset the images to their initial state.		_	·
<b>?</b> _	Show / hide demographics.	<u></u>		ert the slice ordering.
L L L L L L L L L L L L L L L L L L L	Show / hide mark-ups.	PA	Sen	d reformatted series to IMPAX.
8	Open the online help in a web browser.		_	
عر	Open the configuration dialog.	\$	Cu	ved Planar Reformat (CPR) mode
•	Minimize the application.		Dra	w or redraw the curve.
×	Close the application.			
i	Open the About dialog.			