

Guide to *Centricity PACS-UV*

LOGGING IN AND ACCESSING IMAGES

Enter the User ID and Password provided by Radiology to login into PACS-UV (Universal Viewer).

***NOTE:** If you do not remember password please call the Radiology department.*

Once you are logged into UV you will view the worklists created for your User ID, typically, Today, Yesterday, Last 7 Days.

SEARCH FUNCTION

Clicking on the  button will open the search page.

Selecting **Last Search** will load the last search criteria entered.

WORKLIST

UV will automatically open up and display the worklist for the first **Tab** configured on the system, usually set for TODAY. Any of the Title blocks e.g. Patient Name, can be clicked to sort worklist, either in ascending or descending order. The worklist title blocks and filter tabs can be configured according to individual needs.

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9Studies20Per Page

Search results

TodayYesterdayLast 7 Days

<div>8</div> <div><div>Q</div><div>STAT</div></div>	Acc #	Date ▼	Patient Name	DOB	AGE	Mod	Study Description	#Ser	#Img	Ref. Phys	Facility
<div>9</div>	7527	2012-10-02 16:55	Bloom,Heinrich	1956-08-14	56	CR	Myelographie lumbal	9	9	Green	Stadts pita Zürich
<div><div><div></div><div></div><div></div></div></div>	7534	2012-10-02 16:55	Bloom,Heinrich	1956-08-14	56	CT	CT LWS Nativ	13	374	Green	Stadts pita
<div><div><div></div><div></div><div></div></div></div>	7535	2012-10-02 16:55	Bloom,Heinrich	1956-08-14	56	CT	CT LWS Nativ	13	374	Green	Stadts pita
<div><div><div></div><div></div><div></div></div></div>	7529	2012-10-02 16:55	Bloom,Heinrich	1956-08-14	56	CR	Myelographie lumbal	9	9	Green	Stadts pita Zürich

WORKLIST BUTTONS

1		Lights on/off mode. Allows the user to select a light or dark colour scheme for the application depending on lighting conditions.
2		This button will expand your selected study into series view.
3		View thumbnails of selected studies.
4		Clicking on the Compare button will open selected studies in compare mode.
5		Select or deselect ALL studies.
6		Use these buttons to page through the worklist pages – first page, back, forward and last page.
7	<input type="text" value="8"/> Studies <input type="text" value="200"/> Per Page	Page information indicator, the second block can be set to any value i.e. 20 case per page.
8		Search button.
9		Use tick box to select or deselect case; Click on the Monitor to view selected study; Notepad is to view or enter note/report.

WORKLIST IN SERIES VIEW

Once you have selected a case and wish to see the series list expanded click on the button and that case will appear in an expanded view – showing all the series information applicable.

A single click on the series you wish to view will open that series only or you can select multiple series and then use the monitor (arrow) on the top left to view selected series.

Patient Name	Date	DOB	MRN #	Acc #	Mod	Study Description	#Ser	#
Knee, Case5	2010-11-24 20:14	2010-01-01	67899876		CR	Knee	3	

Cont	Ser#	#img	Mod	Series Description	Pt.Pos.	Lat	Series Date	Ser Created	C_agent	SERIES_ID	FRAME_REF	S_Type	se.NCDSER#	se.NCDS UL
0	1	1	CR	AP			10-11-24 12:00	2013-10-08 23:27		1.2.840.113564				
0	2	1	CR	LATERAL			10-11-24 20:13	2013-10-08 23:27		1.2.840.113564				
0	3	1	CR	AP			10-11-24 20:20	2013-10-08 23:27		1.2.840.113564				
0	4	1	CR	LATERAL			10-11-24 20:21	2013-10-08 23:27		1.2.840.113564				

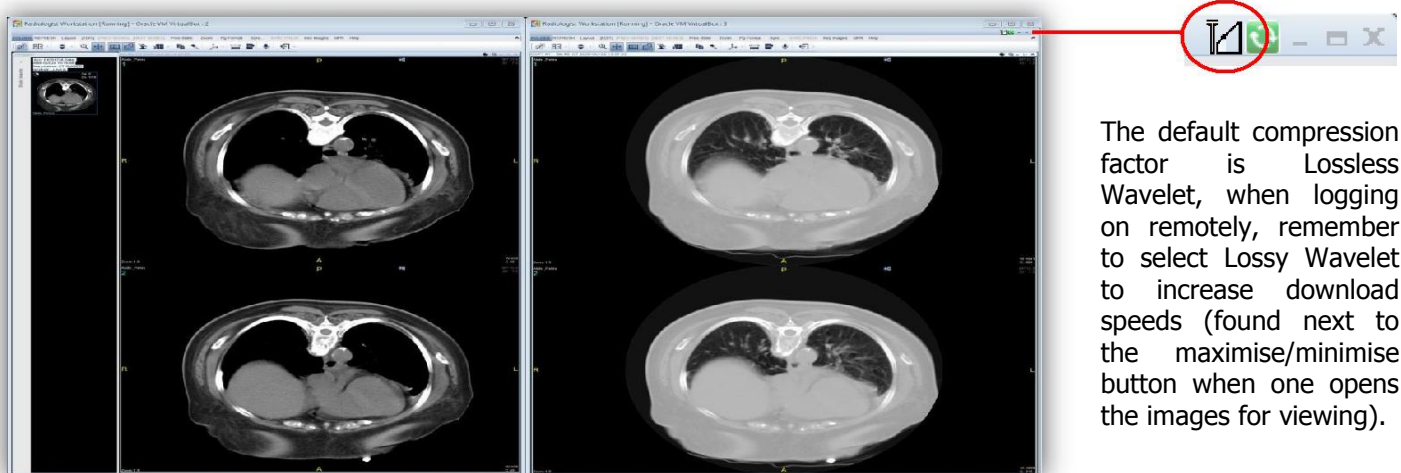
A selected series can be expanded into individual images using the same process as above.

Use the button to go back to full study list.

VIEWING A STUDY

A single left click on a study will open all the images in either a user defined hanging protocol or a default hanging protocol if no matching criteria is identified.

The system will automatically determine the monitor configuration of the system and hang images accordingly – the example below is a dual colour monitor configuration.

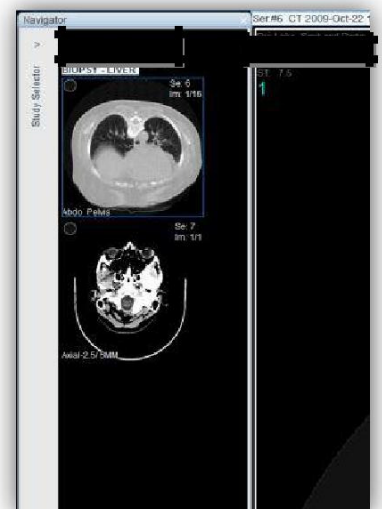
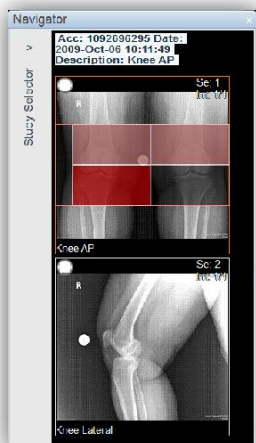


NAVIGATOR

The navigator can be hidden or activated from the toolbar with the  button.

The navigator is normally docked on the left of the images, but can be dragged around the image if it is in the way.

In the example below the navigator is configured to show whether or not a series has been viewed completely – the red squares indicate not viewed; the green circle indicates completely viewed and the yellow triangle means half viewed.



Loading a Series from the Navigator























To load a series into a viewport, drag and drop the series from the navigator or as illustrated below use the navigator screen map to drop the series where you want it.

Left click and hold on the series in the navigator and move the mouse slightly to activate the screen map – the dark red square will be the new position of the series on the screen when you release the mouse button.

MOUSE CONTROLS


- Left mouse button: This defaults to the paging/scrolling function. This can be changed by selecting the various functions from the toolbar or from the screen – click on zoom (bottom left) to change to zoom function, window level (bottom right) for windowing or go back to scrolling by clicking on the image number (top left).
- Right mouse button: This defaults to windowing image centre and width.
- Roll mouse wheel: This enables one to scroll through images. When in zoom mode clicking and holding mouse wheel activates pan function.

TOOLBAR MENU

	Page Scroll – allows scrolling through images using the mouse wheel.		Save images, series or study as image files (JPEG, Bitmap, GIF or DICOM).
	Hanging protocol - changes the viewport arrangement. Click on the arrow to see a list of available hanging protocols.		Point to point measurement.
	Timeline – allows the user to see the patient's history in timeline format.		Angle measurement.
	Window Level/contrast.		Cardio Thoracic Measurement – click on the icon and then on the Chest x -ray image to activate the automated measurement.
	Magnification glass.		Central Elliptical ROI.
	Zoom.		Rectangular ROI.
	Pan.		Freehand ROI.
	Select images.		Delete measurements and annotations.
	Closes and opens the Navigator.		Opens the Labels icons – text, arrows, etc.
	Annotations.		Exits the study.
	Global stack – scrolls through all images and series consecutively.		Slab Scroll – loads selected CT series into MIP view . Drop down list allows choice of thickness of reconstructed image.

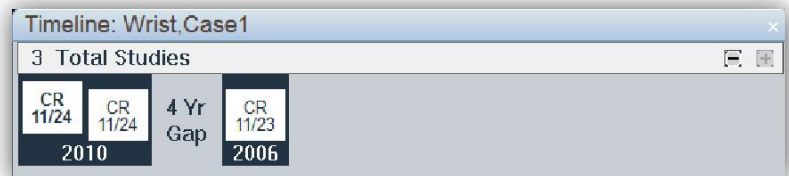
COMPARING CURRENT AND PREVIOUS IMAGES

To compare previous images one must make sure that the images are referred to oneself first. If the patient is not referred to you, radiology should be contacted to allow you to view the images.

The user can view the previous cases by using the Timeline  icon. The chronological timeline represents a tile for each study, grouped by dates associated with the patient selected.

To add a study from the Timeline as a thumbnail in the Navigator, click anywhere above the date in the study tile.

Images from the study are added as thumbnails in the Navigator and one is able to use these images to compare to the current study.

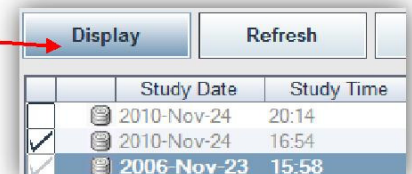


It is also possible to check if the patient has had previous images and who referred the patient by looking at the Patient Folder. In the view study window, click **FOLDER** in the main menu.



This opens the **PATIENT FOLDER** window which shows a list of the patient's previous images.

Click in the tick box next to the required images to view and click on **Display**.



The **current** image will be opened on the left side of the screen and the **comparison** (prior) image will be opened on the right side of the screen.

RIGHT CLICK MENU OPTIONS

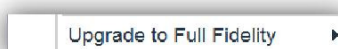
Right clicking on an image will open the menu options.



Choose **Preset Window** to select preset window levels – e.g. bone, lung window.



To **Flip**, **Mirror** or **Rotate** an image select the appropriate option from the list.



Upgrade to full fidelity gives you the option load an uncompressed image if you are in Lossy Wavelet compression.

VIEWING A REPORT WITHOUT OPENING THE STUDY

An easy option to view whether the patient has a report, is to look at the worklist – a green notepad indicates that this patient has a report.


One can open the report by clicking once on the green notepad.

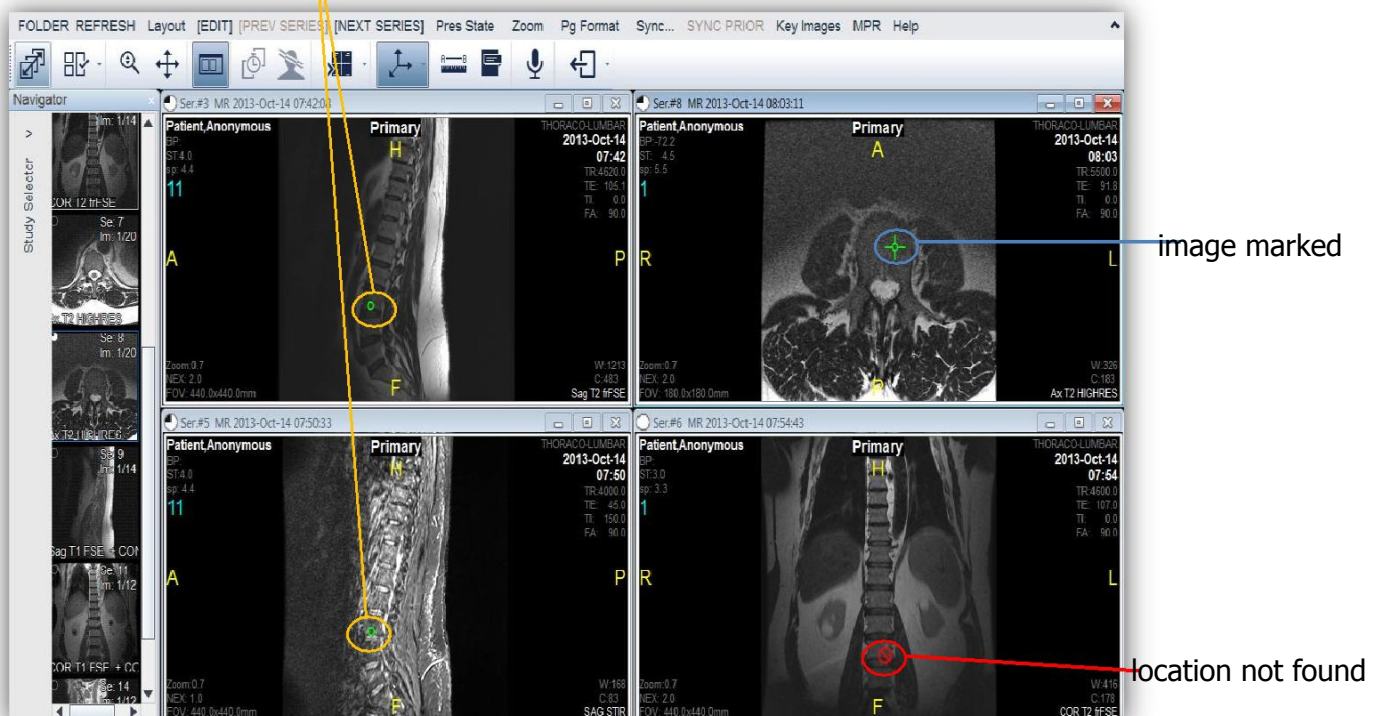


SHORTCUT KEYS

6	Undo zoom
R	Resets windowing to Recommended
V	Inverts the image
Space bar	Goes through the preset windows for CT/MRI

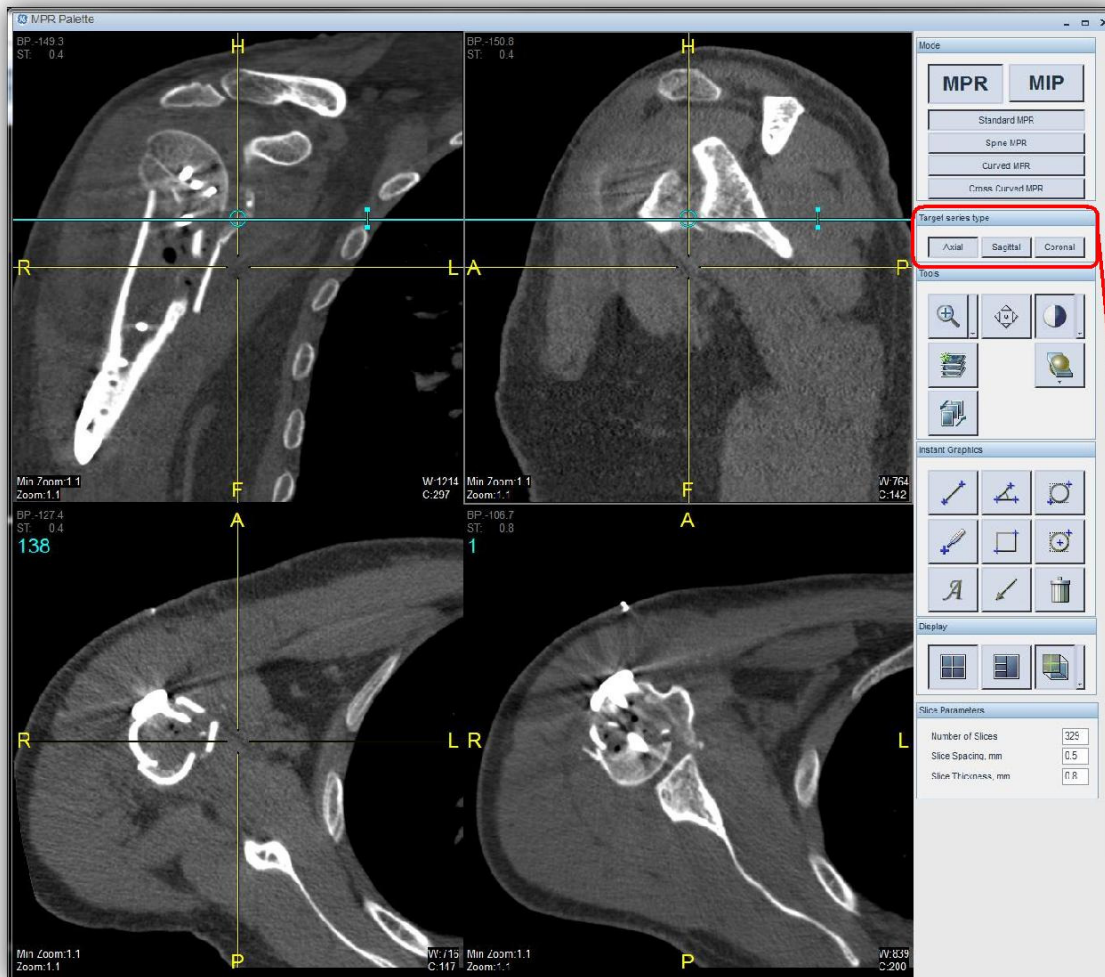
TRIANGULATION

Marking an image with the triangulation button  will automatically localise that position with a marker on the other series that are open.

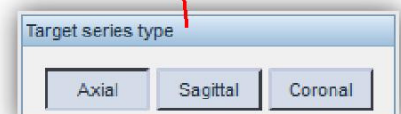


MPR FUNCTION

If you have thin slices available in a study they can be loaded into the MPR function. Select the appropriate series and click on the MPR button **MPR**.



The target image is loaded into bottom right hand screen – this can be changed to **Axial**, **Sagittal** or **Coronal** view by selecting one of the buttons below.



REFERRING A PATIENT TO ANOTHER REFERRING DOCTOR

If a patient needs to be referred to another specialist doctor one needs to select **Refer** from the Patient Folder window.

Grant access to: **Find**

of days:

Access will expire on: 2013-10-28

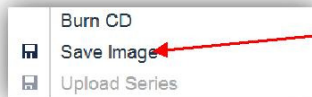
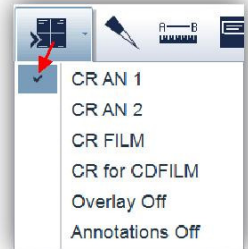
Worklist: **...**

Click on **Find** to select the referring doctor you want to grant temporary access to.

Select the worklist to place the images in by click on the Worklist icon **...**. Select the name of the worklist and click on <OK>. Once completed click on **Grant Access**

SAVING IMAGES

It is best to hide all patient information if you are saving the images for presentation purposes. With the patient's images open, select the arrow next to the annotation icon and select **Overlay Off** (arrow head).



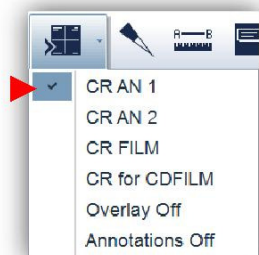
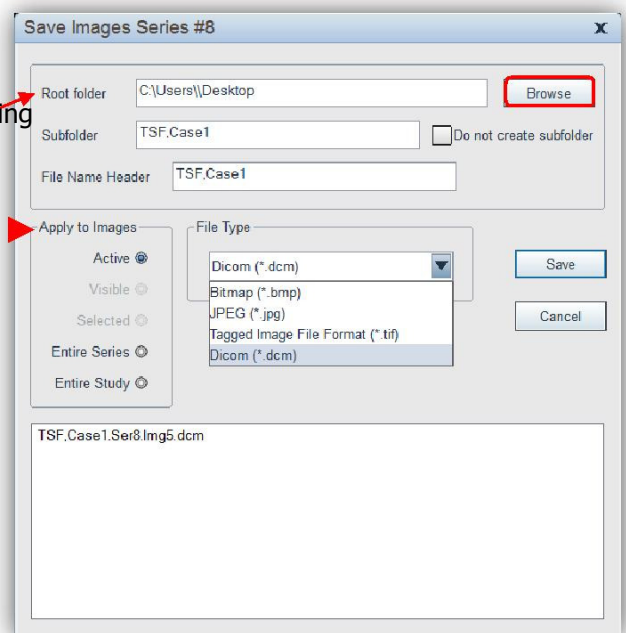
Right click on the image you wish to save and select **Save Image**.

Select the folder you would like to save the image(s) to, by selecting **Browse**.

The patient's name automatically becomes the **Subfolder** and **File Name Header**. This can be edited by typing in the fields indicated with an arrow.


Select the appropriate action under **Apply to Images**. **Active** refers to the image currently selected; **Entire Series** is a single image in CR or a series in CT, MR, etc. and **Entire Study** will save all images in all series.

Note: one should be aware that CTs and MRIs contain hundreds of images, so saving them may result in a large amount of individual images.



Click on the Annotation icon and select the first option on the list (in this case, for CR, usually **CR AN 1**) to unhide the patient information.

CLOSING A STUDY

To close a study click on the  icon in the toolbar menu; this will close the study and not change status or save any changes to the images.