

PACS

About pStation PACS

pStation PACS, is a medical imaging solution that scales from X-Ray only storage and viewing for small clinics to a full-fledged Vendor Neutral Archive for large medical institutions. The solution offers advanced image viewing and reporting workstations with tools like MPR, MIP, Paired Navigation, Scoliosis, etc. for specialists. It is cross-platform and supports both web and mobile.

Versions of pStation

The solution is available in three versions – Lite, Classic and Professional.

Lite: The solution is suitable for small medical institutions typically having digital X-Ray facility. It enables acquisition of images from CR, DR or DX consoles, compressed storage of the acquired images and viewing through pStation X-Ray profile viewer.

Classic: The solution is suitable for medical institutions having CT, MRI and other modalities along with digitized X-Rays. It enables acquisition of images from any DICOM-compliant modality, compressed storage of the acquired images and viewing through pStation General profile viewer.

Professional: The solution is suitable for medical institutions requiring advanced viewer features. It enhances Classic with the license to use pStation Advanced profile viewers.

pStation Viewer Profiles

pStation Viewer X-Ray: Optimized for viewing and studying DICOM X-Ray images. Supports comparison of multiple X-Ray images of the same patient or different patients. Brightness and contrast can be adjusted using the mouse. Along with standard length, angle and area measurement, Cobb, Bohler and Gissane angle measurements are supported. Notes can be added and saved with the measurements as annotations for future reference.

pStation Viewer General: Provides all features of the X-Ray profile and adds the capability to view all DICOM images including CT, MRI, Mammogram, Nuclear Medicine, ECG (waveforms), OPG etc. Display of Hounsfield values, Cine display at various frame rates, Waveforms display, CT pre-sets etc. are all supported in this profile.

pStation Viewer Advanced: Provides all features of General profile and adds advanced viewing capabilities and tools like Cross-reference lines and planes, paired navigation of cross-sectional series, more CT pre-sets, color palettes, multiplanar reconstruction (orthogonal and oblique), region of interest measurements with area, max HUV, min HUV, average HUV, etc.

Platform Support Information

Profiles	Windows	Linux	MacOS
X-Ray	Yes	Yes	Yes
General	Yes	Yes	Yes
Advanced	Yes	No	No

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Profile Features and Comparisons

Work list	X-Ray	General	Advanced
Filter by Date Range	Yes	Yes	Yes
Easy selection of Date Ranges like yesterday, last week etc.	Yes	Yes	Yes
Filter within date range by patient id or part of patient name	Yes	Yes	Yes
Filter by one or more modalities	No	Yes	Yes

Patient Search	X-Ray	General	Advanced
Search by patient id	Yes	Yes	Yes
Search by part of patient name	Yes	Yes	Yes
Display all studies of patient in search result	Yes	Yes	Yes
Display search results of multiple patients in single UI	Yes	Yes	Yes

Magnification and Zoom	X-Ray	General	Advanced
Magnifying glass to zoom in an area of image on mouse over	Yes	Yes	Yes
Incremental zoom in and zoom out by button click	Yes	Yes	Yes
Incremental zoom in and zoom out by mouse scroll	Yes	Yes	Yes
Pan image by mouse left click and drag (default)	Yes	Yes	Yes
Reference anchor window at bottom right for easy panning	Yes	Yes	Yes
Linked panning of zoomed in images	Yes	Yes	Yes

Pre-set display sizes	X-Ray	General	Advanced
Fit to screen (Full image stretched or shrunk to fit display area)	Yes	Yes	Yes
1:1 (actual pixel size of the image)	Yes	Yes	Yes
Real size (physical size of the imaged object not corrected for modality magnification)	Yes	Yes	Yes

Image Scrolling	X-Ray	General	Advanced
Scroll through images in a series backward and forward by mouse scroll	Yes	Yes	Yes
Scroll through images in a series backward and forward by button click	No	Yes	Yes
Cine Display - Auto scroll through images at various frame rates	No	Yes	Yes
Play multi frame images	No	Yes	Yes

Measurements and Annotations	X-Ray	General	Advanced
Length	Yes	Yes	Yes
Angle	Yes	Yes	Yes
Cobb angle (Scoliosis)	Yes	Yes	Yes
Intersection angle (Bohler, Gissane)	Yes	Yes	Yes
Freehand area	Yes	Yes	Yes
Text notes	Yes	Yes	Yes
Save and retrieve annotations	Yes	Yes	Yes
Delete annotations	Yes	Yes	Yes
Region of interest (freehand)	No	No	Yes

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Region of interest (Rectangular)	No	No	Yes
Region of interest (Circular)	No	No	Yes
Average, minimum and maximum HUV along with area	No	No	Yes
Spine labelling	No	No	Yes
Marker arrows with settable marker colors	No	No	Yes

Rotation and Flip	X-Ray	General	Advanced
Rotate clockwise and anti-clockwise through settable angles	Yes	Yes	Yes
Flip horizontally and vertically	Yes	Yes	Yes

Window Level/Window Width	X-Ray	General	Advanced
Invert	Yes	Yes	Yes
Step increase/decrease by settable percentage or value	Yes	Yes	Yes
Increase/decrease by left mouse click and drag	Yes	Yes	Yes
Custom window level/window width	Yes	Yes	Yes
Basic color pre-sets	Yes	Yes	Yes
Hounsfield units display on mouse over	No	Yes	Yes
Basic CT pre-sets	No	Yes	Yes
Advanced color pre-sets	No	No	Yes
Advanced CT pre-sets	No	No	Yes

Layout and Comparison	X-Ray	General	Advanced
Choose multiple image layout up to 8 X 8	Yes	Yes	Yes
View and compare multiple images of the same patient from same or different studies	Yes	Yes	Yes
View and compare images from studies of different patients	Yes	Yes	Yes
Operate on images in each layout section separately	Yes	Yes	Yes
Film navigation	No	Yes	Yes
Reference line	No	No	Yes
Reference plane	No	No	Yes
Paired navigation	No	No	Yes

Advanced Tools	X-Ray	General	Advanced
Orthogonal multiplanar reconstruction	No	No	Yes
Oblique multiplanar reconstruction	No	No	Yes
Maximum intensity projection with selectable slice thickness	No	No	Yes

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1. Multi OS and Platform Support (Linux systems can be used instead of windows leading to savings in windows licenses¹)
2. No requirement of Internet explorer to get advanced features.
3. User friendly tool layout to get work done faster.
4. Optimized software requires less hardware resources directly leading to savings in server cost.
5. No need for SQL server and thus can avoid Database license cost