

Function	Description	v 7.1
<b>Supported modalities</b>		
<b>CT</b>	Computer Tomography modality for diagnostic use.	<b>+</b>
<b>MR</b>	Magnetic Resonance modality for diagnostic use	<b>+</b>
<b>XA</b>	X-Ray Angiography modality for diagnostic use.	<b>+</b>
<b>CR/DX</b>	Computed Radiography/Digital Radiography modality for diagnostic use.	<b>+</b>
<b>PT</b>	Positron Emission Tomography (PET) modality for diagnostic use.	<b>+</b>
<b>NM</b>	Nuclear Medicine modality for diagnostic use.	<b>+</b>
<b>US</b>	Ultrasound modality for diagnostic use.	<b>+</b>
<b>OP</b>	Ophthalmic Photography modality for diagnostic use.	<b>+</b>
<b>RF</b>	Radio Fluoroscopy modality for diagnostic use.	<b>+</b>
<b>ES</b>	Endoscopy modality for diagnostic use.	<b>+</b>
<b>ECG</b>	Electrocardiography modality for diagnostic use.	<b>+</b>
<b>IO</b>	Intra-Oral Radiography modality for diagnostic use.	<b>+</b>
<b>PX</b>	Panoramic X-Ray modality for diagnostic use.	<b>+</b>
<b>RG</b>	Radiographic imaging modality for diagnostic use.	<b>+</b>
<b>SC</b>	Secondary Capture modality for diagnostic use.	<b>+</b>
<b>XC</b>	External-camera Photography modality for diagnostic use.	<b>+</b>
<b>MG</b>	Mammography modality for diagnostic use.	<b>+</b>
<b>OT</b>	Other modalities for diagnostic use.	<b>+</b>
<b>Regular features</b>		
<b>Window Width/Level</b>	Image window level manipulation using the mouse.	<b>+</b>
<b>W/L Presets</b>	Possibility to select from a list of available Window Width/Level presets.	<b>+</b>
<b>Pan</b>	Moving the image within the image viewer, useful then image is larger than the viewer, after zooming for example.	<b>+</b>
<b>Zoom</b>	Increase/decrease the image.	<b>+</b>
<b>Scroll</b>	Scroll through the images of series by using mouse wheel, dragging vertically or with keyboard hot keys.	<b>+</b>
<b>Rotate/Flip</b>	Rotate the image right/left, flip it horizontal/vertical with possibility to revert the image to original orientation.	<b>+</b>
<b>Magnifier</b>	Magnify (enlarge) certain area of the image.	<b>+</b>

<b>Measurements</b>		
<b>Line</b>	Distance between two points.	<b>+</b>
<b>Angle</b>	Creating and measuring the angles between three points.	<b>+</b>
<b>Show angles</b>	Show all angles between intersecting lines.	<b>+</b>
<b>Polyline</b>	Distance from a set number of points.	<b>+</b>
<b>Area</b>	Area measurement from a set number of points.	<b>+</b>
<b>Volume</b>	Volume measurement using circles created from a set number of points.	<b>+</b>
<b>Ellipse</b>	Draw and measure the ellipse.	<b>+</b>
<b>Cobb angle</b>	Angle measurement between two lines.	<b>+</b>
<b>Text</b>	Text fields placed on the image for writing text notes.	<b>+</b>
<b>ROI</b>	Measurement on images of the size and shape of a particular object.	<b>+</b>
<b>Calibration line</b>	Change the scale of measurement.	<b>+</b>
<b>Intensity</b>	Image intensity in Hounsfield units (HU).	<b>+</b>
<b>STD</b>	Average value and standard deviation of pixels in a square area of 10 by 10 mm.	<b>+</b>
<b>Save annotation</b>	Saving measurements. (Please contact us directly to check if your PACS can support saving annotations function.)	<b>+</b>
<b>Layout features</b>		
<b>Layout</b>	Select from different types of layouts to view up to 12 DICOM instances at the same time.	<b>+</b>
<b>Thumbnails position</b>	Change position of thumbnails on the screen.	<b>+</b>
<b>Full Screen</b>	Possibility to switch to full screen view.	<b>+</b>
<b>Multi-image</b>	Select how many images can be loaded in the window.	<b>+</b>
<b>Multiple studies support</b>	Ability to open multiple studies and compare images of the same patient, or different patients.	<b>+</b>
<b>Split-view mode</b>	View images from multiple studies and compare them side-by-side.	<b>+</b>
<b>Related Studies</b>	Easy access to entire patient history, avoid time-consuming procedures like performing multiple searches and loading studies individually.	<b>+</b>
<b>Multi-monitor support</b>	MedDream Chrome extension is used for automated adjusting.	<b>+</b>
<b>Key Objects (KO) storing</b>	Possibility to mark instances and save them as KO for later review.	<b>+</b>
<b>Hanging Protocols</b>	Describe how to layout a set of images for a faster diagnosis.	<b>+</b>
<b>Manipulation features</b>		
<b>Reference lines</b>	Overlaying reference lines allow to indicate the location of an image slice on another image of an intersecting pane.	<b>+</b>
<b>Orientation labels</b>	Labels on the edges of the images clearly indicate how the patient is oriented.	<b>+</b>

<b>Link</b>	Possibility to make comparison on image slice location.	<b>+</b>
<b>Cine Mode/Multi-frame creation</b>	Puts all series images into one movie and enables scrolling through images quickly.	<b>+</b>
<b>Crosshair</b>	Represents the intersecting planes of the selected point on the main study.	<b>+</b>
<b>VOI LUT</b>	Possibility to select and apply VOI LUT: non-linear transformation stored by medical modality.	<b>+</b>
<b>Reset</b>	Resetting the image's view to the original state.	<b>+</b>
<b>Supporting functions</b>		
<b>Search engine</b>	Search, save studies and open them.	<b>+</b>
<b>Report</b>	Write a report for a study. (Please contact us directly to check for reporting function possibility.)	<b>+</b>
<b>Image print</b>	Print the image from a Viewer.	<b>+</b>
<b>DICOM print</b>	With integrated printing component.	<b>+</b>
<b>Study forward</b>	Forward studies to the other DICOM devices.	<b>+</b>
<b>Export</b>	Export multiple studies and save them in different formats: DICOM, jpg/mp4, tiff/mp4.	<b>+</b>
<b>Burn</b>	Export the study to burn it to CD/DVD/Dual Layer DVD.	<b>+</b>
<b>Anonymize and share</b>	Possibility to anonymize and share studies (via <a href="#">DICOM Library</a> ).	<b>+</b>
<b>Keyboard shortcuts</b>	The keyboard shortcuts allow the users to quickly change tools and interact with the data.	<b>+</b>
<b>Specific features</b>		
<b>Multi-frame support</b>	Multi-frame image support.	<b>+</b>
<b>Video support</b>	MPEG-2 and MPEG-4 video support.	<b>+</b>
<b>ECG support</b>	Electrocardiography study support.	<b>+</b>
<b>PDF support</b>	Support for PDF files.	<b>+</b>
<b>SR support</b>	Support for SR documents.	<b>+</b>
<b>Key Objects (KO) support</b>	Possibility to mark instances as Key Objects and save them. Available KO instances can be opened for review.	<b>+</b>
<b>PET-CT Fusion</b>	Possibility to combine the series of PET and CT types, thus linking the sites of radioactive drug concentrations with the anatomical patient structure.	<b>+</b>
<b>Color channels</b>	Highlight a color component or a combination of them in the image by showing selected color in white shades and other colors in black.	<b>+</b>
<b>ECG features</b>		
<b>Measurement (mV, s)</b>	Area calculation indicating beats per minute, time, millivolt (mV, s, bpm).	<b>+</b>
<b>QT points (RR, QT, QTc)</b>	QT interval - the RR interval is calculated as well as QT and the QTc.	<b>+</b>
<b>HR</b>	Measure heart rate (HR) and compare its interval variance over the ECG.	<b>+</b>
<b>QRS axis</b>	Measure the QRS electrical heart axis.	<b>+</b>

<b>VTI (Velocity Time Integral)</b>	Used to measure the distance which the blood was ejected over a date interval of time.	<b>+</b>
<b>Studies comparison</b>	Comparison of two or more ECGs by normalizing and then overlaying them on one another.	<b>+</b>
<b>MPR features</b>		
<b>Orthogonal MPR</b>	2D multi-planar reconstruction with Axial, Coronal, Sagittal projections.	<b>+</b>
<b>Axial MPR</b>	Axial multi-planar reconstruction.	<b>+</b>
<b>Coronal MPR</b>	Coronal multi-planar reconstruction.	<b>+</b>
<b>Sagittal MPR</b>	Sagittal multi-planar reconstruction.	<b>+</b>
<b>Features of 2D</b>	Window leveling, pan, zoom, measurements, scroll, crosshair, etc. Except image flip/rotate function.	<b>+</b>
<b>Cine</b>	Users can cine through a batch of MIP/MPR images for quick review of anatomy within a user-defined range.	<b>+</b>
<b>Optional: advanced MPR features</b>		
<b>Oblique MPR</b>	Allows the users review structures better that are not in the acquisition orientation or orthogonal views.	<b>+</b>
<b>MIP</b>	Maximum Intensity Projection mode for rendering the images.	<b>+</b>
<b>MinIP</b>	Minimum Intensity Projection mode for rendering the images.	<b>+</b>
<b>AVG</b>	Average mode for rendering the images.	<b>+</b>
<b>Features of 2D</b>	Window leveling, pan, zoom, measurements: line, angle, scroll, crosshair.	<b>+</b>
<b>3D rendering</b>	Rendering of 3D volume with rotation, pan, zoom functions and applying the transfer function presets.	<b>+</b>
<b>MPR/MIP comparison</b>	Several 3D images can be compared at the same time.	<b>+</b>
<b>Customization features</b>		
<b>Theme</b>	Possibility to change the default color (red) to the blue color that is clearly visible on a black and a white monitors.	<b>+</b>
<b>White label product</b>	Possibility for OEMs to rebrand the Viewer by customizing: logotype, product name, color scheme, contact details.	<b>+</b>
<b>Language support</b>	Default languages: English, Lithuanian, Russian. Possibility to support more languages by request.	<b>+</b>
<b>Integration into medical information systems</b>		
<b>HIS</b>	Flexible and open integration interface into Hospital information system.	<b>+</b>
<b>RIS</b>	Flexible and open integration interface into Radiology information system.	<b>+</b>
<b>EHR</b>	Flexible and open integration interface into Electronic health record.	<b>+</b>
<b>EMR</b>	Flexible and open integration interface into Electronic medical record.	<b>+</b>
<b>PHR</b>	Flexible and open integration interface into Personal health record.	<b>+</b>
<b>Any medical application</b>	Flexible and open integration interface into any other medical application.	<b>+</b>

PACS server support		
<b>Multi PACS support</b>	Supporting Multi PACS by plugins.	+
<b>MedDream PACS</b>	Server to store, archive and manage medical images. <a href="#">Read more.</a>	+
<b>PacsOne PACS server</b>	<a href="#">Read more.</a>	+
<b>dcm4chee v2 and dcm4chee v5 PACS server</b>	<a href="#">Read more.</a>	+
<b>Orthanc PACS</b>	<a href="#">Read more.</a>	+
<b>PacsOne</b>	<a href="#">Read more.</a>	+
<b>DICOM Query/Retrieve</b>	The service is used to query a DICOM archive about its content, and to eventually retrieve some portions of that content to another DICOM node.	+
<b>FileSystem</b>	Plugin that uses simple directories instead of a full-fledged PACS.	+
<b>ClearCanvas</b>	<a href="#">Read more.</a>	+
<b>Conquest DICOM software</b>	<a href="#">Read more.</a>	+
<b>PACS supporting WADO</b>	Viewer can be integrated into PACS supporting WADO by request.	+
<b>Any PACS or other DICOM system</b>	Viewer can be integrated into any PACS system by plugins.	+
Virtualization environments support		
<b>VMWare</b>	<a href="#">Read more.</a>	+
<b>Docker</b>	<a href="#">Read more.</a>	+
<b>AWS</b>	<a href="#">Read more about Amazon Web Services.</a>	+
<b>Hyper-V</b>	<a href="#">Read more.</a>	+
DB Engines support		
<b>MySQL</b>	<a href="#">Read more.</a>	+
<b>PostgreSQL</b>	<a href="#">Read more.</a>	+
<b>MSSQL</b>	<a href="#">Read more about Microsoft SQL Server.</a>	+
<b>MariaDB</b>	<a href="#">Read more.</a>	+
<b>Oracle</b>	<a href="#">Read more.</a>	+
<b>Other</b>	Viewer can be integrated into any DB Engine by request.	+
Operating Systems on server side support		
<b>Windows Server</b>	Versions: 2008/2010/2012.	+
<b>Windows</b>	Versions: 7/8/10.	+
<b>Linux</b>	Kernel 2.6 and later: CentOS, Ubuntu, Fedora, Debian.	+

<b>Operating Systems on client side support</b>		
<b>Windows</b>	Versions: 7/8/10.	<b>+</b>
<b>Apple MacOS X</b>	v10.5 or later.	<b>+</b>
<b>Linux</b>	Kernel 2.6 and later: CentOS, Ubuntu, Fedora, Debian.	<b>+</b>
<b>Web browsers support</b>		
<b>Microsoft Edge</b>	16 or later.	<b>+</b>
<b>Mozilla Firefox</b>	58 or later.	<b>+</b>
<b>Google Chrome</b>	63 or later.	<b>+</b>
<b>Safari</b>	5 or later.	<b>+</b>
<b>Mobile devices (tablets and smartphones) support</b>		
<b>IOS</b>	Safari browser, Chrome browser.	<b>+</b>
<b>Android</b>	Chrome browser.	<b>+</b>
<b>Regulatory</b>		
<b>USA FDA</b>	K162011, 510 (k) cleared as a Class II medical device.	<b>+</b>
<b>Europe CE</b>	Certified as a Class IIa device.	<b>+</b>
<b>Russia Registration</b>	Registered as a Class 2b medical device.	<b>+</b>
<b>Thailand FDA</b>	Received an approval for distribution.	<b>+</b>