

Function	Description	v7.9.0
Regular features		
Window Width/Level	Image window level manipulation using the mouse.	+
W/L Presets	Possibility to select from a list of available Window Width/Level presets.	+
Pan	Moving the image within the image viewer, useful then image is larger than the viewer, after zooming for example.	+
Zoom	Increase/decrease the image. Zoom to selected area option.	+
Scroll	Scroll through the images of series by using mouse wheel, dragging vertically or with keyboard hot keys.	+
Rotate/Flip	Rotate the image right/left, flip it horizontal/vertical with possibility to revert the image to original orientation.	+
Magnifier	Magnify (enlarge) certain area of the image.	+
Measurements		
Line	Distance between two points.	+
Angle	Creating and measuring the angles between three points.	+
Cobb angle	Angle measurement between two lines.	+
Polyline	Distance from a set number of points.	+
Area	Area measurement from a set number of points.	+
Ellipse	Draw and measure the ellipse.	+
Volume	Volume measurement using circles created from a set number of points.	+
CTR	Measure the cardiothoracic ratio (CTR) to estimate a heart size.	+
Flatfoot	Measure the longitudinal arch of the foot to detect the longitudinal flatfoot.	+
Spine labeling	Measurement to mark the vertebrae of the spine.	+
ROI	Measurement on images of the size and shape of a particular object.	+
Flexpoly	Mark flexible region of the image for which the area is calculated.	+
Pencil	Mark the area of the image with a free drawing.	+
Arrow	Mark the area of interest on image, video or multi-frame.	+
Text	Text fields placed on the image for writing text notes.	+
Intensity	Image intensity in Hounsfield units (HU).	+
Show angles	Show all angles between intersecting lines.	+

Calibration line	Change the scale of measurement.	+
STD	Average value and standard deviation of pixels in a square area of 10 by 10 mm.	+
Delete	Remove measurements of an active image.	+
Save annotation	Saving the measurements. Please contact us directly to check if your PACS can support saving annotation's function.	+
Viewport features		
Scroll activator	Possibility to activate/deactivate Simultaneous scrolling feature for the active viewports.	+
Ellipse ROI propagation	Possibility to propagate the measurement (Ellipse) ROI to other open viewports.	+
Viewport to clipboard	Possibility to copy viewport content to the clipboard using PNG compression format from viewport.	+
Image to clipboard	Possibility to copy original resolution image to the clipboard (no annotations and manipulations).	+
Save viewport as secondary capture	Possibility to save viewport content as DICOM secondary capture in new series.	+
Quick access controls	Possibility to use controls for quickly accessing the images with additional data. Quick access controls: Scrollbar, Chevron buttons, Key objects, Annotations.	+
Quick save KO and PR	Fast saving the measurements and Key Objects. Please contact us directly to check if your PACS can support saving annotation's function.	+
Layout features		
Layout	Select from different types of layouts to view up to 12 DICOM instances at the same time.	+
Thumbnail position	Change position of thumbnails on the screen.	+
Full Screen	Possibility to switch to full screen view.	+
Multi-image	Select how many images can be loaded in the window.	+
Multiple studies support	Ability to open multiple studies and compare images of the same patient, or different patients.	+
Split-view mode	View images from multiple studies and compare them side-by-side.	+
Related Studies	Easy access to entire Patient history, avoid time-consuming procedures like performing multiple searches and loading studies individually.	+
Multi-monitor support	MedDream Chrome extension is used for automated adjusting.	+
Key Objects (KO) storing	Possibility to mark instances and save them as KO for later review.	+
Hanging Protocols	Describe how to layout a set of images for a faster diagnosis.	+
Manipulation features		
Reference lines	Overlaying reference lines allow to indicate the location of an image slice on another image of an intersecting pane.	+
Orientation labels	Labels on the edges of the images clearly indicate how the patient is oriented.	+
Simultaneous scrolling	Linking of series – manual simultaneous scrolling. Possibility to enable/disable for every viewport. Possibility to scroll all studies in opened viewports.	+
Sync Windowing	Optional same series windowing synchronization.	+
Cine Mode/Multi-frame creation	Puts all series images into one movie and enables scrolling through images quickly.	+

Crosshair	Represents the intersecting planes of the selected point on the main study.	+
VOI LUT	Possibility to select and apply VOI LUT: non-linear transformation stored by medical modality.	+
Reset	Resetting the image's view to the original state.	+
Supporting functions		
Search engine	Search, save studies and open them.	+
Report	Write a report for a study.	+
Image print	Print the image from a Viewer.	+
DICOM print	With integrated printing component.	+
Study forward	Forward studies to the other DICOM devices.	+
Export	Export multiple studies and save them in different formats: DICOM, jpg/mp4, tiff/mp4, png/mp4, and bmp/mp4.	+
Burn	Export the study to burn it to CD/DVD/Dual-Layer DVD/Custom Size.	+
Anonymize and share	Possibility to anonymize and share studies (via DICOM Library).	+
Info Labels	Possibility to show/hide Info Labels in viewports.	+
Keyboard shortcuts	The keyboard shortcuts allow the users to quickly change tools and interact with the data.	+
Specific features		
Live Share support	Diagnostic quality real time-sharing functionality (conference mode).	+
Multi-frame support	US, XA multi-frames shown in cine mode. CT/MR/MG/OPT/NM studies multi-frames shown as instance series. CT/MR multi-frames are with full functionality of MPR/MIP/3D.	+
Video support	MPEG-2 and MPEG-4 video support.	+
ECG support	Electrocardiography study support.	+
PDF support	Support for PDF files.	+
SR support	Support for SR documents.	+
Key Objects (KO) support	Possibility to mark instances as Key Objects and save them. Available KO instances can be opened for review.	+
PET-CT Fusion	Possibility to combine the series of PET and CT types, thus linking the sites of radioactive drug concentrations with the anatomical patient structure.	+
Color channels	Highlight a color component or a combination of them in the image by showing selected color in white shades and other colors in black.	+
ECG features		
Measurement (mV, s)	Area calculation indicating beats per minute, time, millivolt (mV, s, bpm).	+
QT points (RR, QT, QTc)	QT interval - the RR interval is calculated as well as QT and the QTc.	+
HR	Measure heart rate (HR) and compare its interval variance over the ECG.	+
QRS axis	Measure the QRS electrical heart axis.	+
Studies comparison	Comparison of two or more ECGs.	+

Ultrasound feature		
VTI (Velocity Time Integral)	Used to measure the distance which the blood was ejected over a date interval of time.	+
MPR features		
Orthogonal MPR	2D multi-planar reconstruction with Axial, Coronal, Sagittal projections.	+
Axial MPR	Axial multi-planar reconstruction.	+
Coronal MPR	Coronal multi-planar reconstruction.	+
Sagittal MPR	Sagittal multi-planar reconstruction.	+
Features of 2D	Window leveling, pan, zoom, measurements, scroll, crosshair, etc. Except image flip/rotate function.	+
Cine	Users can cine through a batch of MIP/MPR images for quick review of anatomy within a user-defined range.	+
Optional: advanced MPR features		
MPR Oblique	Allows the users review structures better that are not in the acquisition orientation or orthogonal views.	+
MIP	Maximum Intensity Projection mode for rendering the images.	+
MinIP	Minimum Intensity Projection mode for rendering the images.	+
AVG	Average mode for rendering the images.	+
Features of 2D	Window leveling, pan, zoom, measurements: line, angle, scroll, crosshair.	+
3D rendering	Rendering of 3D volume with rotation, pan, zoom functions and applying the transfer function presets.	+
MPR/MIP comparison	Several 3D images can be compared at the same time.	+
Customization features		
Theme	Possibility to change the default color (red) to the blue color that is clearly visible on a black and a white monitor.	+
Thumbnail view	One thumbnail per CT/MR/PET series is shown. Possibility to configure all thumbnails for the series to be shown.	+
Silent Preload	Optional CT/MR/PET series instances preloading on dragging thumbnail to viewport.	+
White label product	Possibility for OEMs to rebrand the Viewer by customizing: logotype, product name, color scheme, contact details.	+
Multi language support	Default languages: English, Lithuanian, Russian. Possibility to support more languages by request.	+
Dialog windows	Possibility to resize and drag dialog windows.	+
Supported modalities		
CR	Computed Radiography modality for diagnostic use.	+
CT	Computer Tomography modality for diagnostic use.	+
DX	Digital Radiography modality for diagnostic use.	+
ECG	Electrocardiography modality for diagnostic use.	+

EPS	Cardiac Electrophysiology modality for diagnostic use.	+
ES	Endoscopy modality for diagnostic use.	+
IO	Intra-Oral Radiography modality for diagnostic use.	+
IVUS	Intravascular Ultrasound modality for diagnostic use.	+
MG	Mammography modality for diagnostic use.	+
MR	Magnetic Resonance modality for diagnostic use	+
NM	Nuclear Medicine modality for diagnostic use.	+
OT	Other modalities for diagnostic use.	+
OP	Ophthalmic Photography modality for diagnostic use.	+
OPT	Ophthalmic Tomography modality for diagnostic use.	+
OCT	Optical Coherence Tomography (non-Ophthalmic) modality for diagnostic use.	+
PT	Positron Emission Tomography (PET) modality for diagnostic use.	+
PX	Panoramic X-Ray modality for diagnostic use.	+
RF	Radio Fluoroscopy modality for diagnostic use.	+
RG	Radiographic imaging modality for diagnostic use.	+
SC	Secondary Capture modality for diagnostic use.	+
XA	X-Ray Angiography modality for diagnostic use.	+
US	Ultrasound modality for diagnostic use.	+
XC	External-camera Photography modality for diagnostic use.	+
Integration into medical information systems		
HIS	Flexible and open integration interface into Hospital information systems.	+
RIS	Flexible and open integration interface into Radiology information systems.	+
PACS	Flexible and open integration interface into Picture archiving and communication systems.	+
VNA	Flexible and open integration interface into Vendor Neutral Archives.	+
EHR	Flexible and open integration interface into Electronic health records.	+
EMR	Flexible and open integration interface into Electronic medical records.	+
PHR	Flexible and open integration interface into Personal health records.	+
Patient Portal	Flexible and open integration interface into Patient Portals.	+
eHealth	Flexible and open integration interface into eHealth, national or regional eHealth systems.	+
Teleradiology	Flexible and open integration interface into Teleradiology or Telemedicine systems.	+
Cloud	Flexible and open integration interface into Cloud healthcare systems.	+
Any medical application	Flexible and open integration interface into any other medical applications.	+

URL Integration types		
Study UID	By Study UID: URL?study={studyUID}. Online demo.	+
Patient ID	By Patient ID: URL?patient={patientID}. Online demo.	+
Accession Number	By Accession Number: URL?acc={AccessionNumber}. Online demo.	+
Patient ID + Accession Number	By Patient ID + Accession Number: URL?patient={PatientID}&acc={AccessionNumber}. Online demo.	+
File	By path to File: URL?file=PATH_TO_YOUR_FILE	+
Token based	Token based secure integration.	+
PACS server support		
Multi PACS support	Supporting Multi PACS by plugins.	+
MedDream PACS	Server to store, archive and manage medical images. Read more.	+
PacsOne PACS server	Read more.	+
dcm4chee v2 and dcm4chee v5 PACS	Read more.	+
Orthanc PACS	Read more.	+
DICOM Query/Retrieve	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.	+
FileSystem	Plugin that uses simple directories instead of a full-fledged PACS.	+
ClearCanvas	Read more.	+
Conquest DICOM software	Read more.	+
Google Cloud Healthcare	MedDream could be integrated with Cloud Healthcare API into Google Cloud Healthcare.	+
PACS supporting WADO	WEB DICOM (WADO) support: possibility to connect with any PACS that supports WADO integration.	+
Any PACS or other DICOM system	Viewer can be integrated into any PACS system by plugins.	+
Virtualization environments support		
VMWare	VMWare virtualization. Read more.	+
Docker	Docker container. Read more.	+
Kubernetes	Kubernetes deployment support. Read more.	+
Hyper-V	Hyper-V virtualization. Read more.	+
Cloud deployment support		
Amazon AWS	Amazon Cloud deployment. Read more about Amazon Web Services.	+
Google	Google Cloud deployment. Read more about Google Cloud Healthcare.	+
Azure	Microsoft Azure Cloud deployment. Read more about Microsoft Azure Cloud.	+
Alibaba	Alibaba Cloud deployment. Read more about Alibaba Cloud.	+

DB Engines support		
MySQL	MySQL database support. Read more.	+
PostgreSQL	PostgreSQL database support. Read more.	+
MSSQL	MSSQL database support. Read more about Microsoft SQL Server.	+
MariaDB	MariaDB database support. Read more.	+
Other	Viewer can be integrated into any DB Engine by request.	+
Operating Systems on server-side support		
Windows Server	Windows Server 2012 (64 bit) and newer.	+
Windows	Windows 10 (64 bit) and newer.	+
Linux	Linux (64 bit, with glibc version >= 2.15): Debian, Ubuntu, CentOS, Fedora.	+
Operating Systems on client-side support		
Windows	Versions: 10 (32/64 bit).	+
Apple MacOS X	v10.9 or later.	+
Web browsers support		
Microsoft Edge	85 or later.	+
Mozilla Firefox	74 or later.	+
Google Chrome	74 or later.	+
Safari	10 or later.	+
Mobile devices (tablets and smartphones) support		
IOS	Safari browser, Chrome browser	+
Android	Chrome browser.	+
Regulatory		
IHE XDS-I.b	Cross-enterprise Document Sharing for Imaging (XDS-I.b) profile as DOCUMENT CONSUMER (ITI-18, ITI-43, RAD-16, RAD-55, RAD-69 transactions).	+
USA FDA	K162011, 510 (k) cleared as a Class II medical device.	+
Europe CE	Certified as a CE 0197 Class IIb device according to MDR.	+
United Kingdom MHRA	Registered as radiology picture archiving and communication system workstation.	+
Switzerland Registration	Registered as IIB class radiology picture archiving and communication system workstation.	+
Thailand FDA	Received an approval for distribution.	+
Singapore Registration	Registered as Class B medical device.	+
Russia Registration	Registered as a Class 2b medical device.	+