

Function	Description	v4.60
<b>Main features</b>		
<b>Video Recording</b>	Certified medical grade video recording software.	<b>+</b>
<b>Still Image Capture</b>	Possibility to take high-quality snapshots.	<b>+</b>
<b>DICOM</b>	Medical video recording into DICOM format by using MPEG2 and MPEG-4 AVC/H.264 compression. Still images are saved in DICOM.	<b>+</b>
<b>Live Stream</b>	Live stream video by RTSP protocol during the procedure.	<b>+</b>
<b>Real time processing</b>	Record, stream, play video and take snapshots at the same time.	<b>+</b>
<b>Modality Worklist</b>	Possibility to select patient data from the DICOM modality worklist (query DICOM modality worklist from worklist server).	<b>+</b>
<b>Patient/Study Management</b>	Flexible patient data assignment: selecting already an existing patient, manually entering the patient details, or selecting from the hospital DICOM worklist server.	<b>+</b>
<b>Send to PACS</b>	Recorded studies are dicomized and can be stored locally or sent to the PACS (medical image archive or VNA).	<b>+</b>
<b>Review</b>	Review recorded medical images/videos during the surgery or other procedures.	<b>+</b>
<b>Video editing</b>	Possibility to trim selected video records.	<b>+</b>
<b>Export</b>	Possibility to export recorded data to the storage device.	<b>+</b>
<b>DICOM Viewer</b>	View historical patient studies with an integrated DICOM Viewer.	<b>+</b>
<b>Multiple video sources</b>	Record video/take images from multiple connected devices (special video card needed).	<b>+</b>
<b>Video types</b>	Cameras, scopes (endoscopes, arthroscopes, etc.), microscopes and others.	<b>+</b>
<b>Auto purge</b>	Auto delete (optional) old studies to make free recording space available.	<b>+</b>
<b>Touchscreen control</b>	Software adapted to use by touch screen monitors. The on-screen keyboard is available.	<b>+</b>
<b>Supported Hardware</b>		
<b>All-In-One solution</b>	Bundle: Medical Panel PC + VideoStation software. Panel PC 21"-27", touchscreen, fan-less.	<b>+</b>
<b>Mini PC solution</b>	Bundle: Medical Mini PC + VideoStation software. Monitor 10", touchscreen, fan-less.	<b>+</b>
<b>PC</b>	A usual PC with the recommended graphic card can be used.	<b>+</b>
<b>OEM</b>	The solution can be adopted and integrated into custom hardware.	<b>+</b>
<b>Foot Pedal</b>	Additional foot pedal support.	<b>+</b>
<b>Selectable Video Inputs (specific capture board required)</b>		
<b>SDI</b>	HD-SDI or SD-SDI Video connection.	<b>+</b>
<b>HDMI</b>	HDVI video connection.	<b>+</b>
<b>DVI</b>	DVI video connection.	<b>+</b>
<b>S-Video</b>	Mini-DIN analog S-Video connection.	<b>+</b>
<b>Composite (CVBS)</b>	BNC analog Composite (CVBS) connection.	<b>+</b>

<b>Selectable Audio Inputs</b>		
<b>EMBEDDED</b>	EMBEDDED audio input.	<b>+</b>
<b>LINE_IN</b>	LINE_IN audio input.	<b>+</b>
<b>MICROPHONE</b>	SOUNDCARD MICROPHONE audio input.	<b>+</b>
<b>SOUNDCARD</b>	SOUNDCARD LINE_IN audio input.	<b>+</b>
<b>Video Recording Formats</b>		
<b>4K</b>	4K up to 3840×2160@60/50.	<b>+</b>
<b>HD</b>	HD up to 1920×1080@60/50.	<b>+</b>
<b>Analog</b>	PAL or NTSC.	<b>+</b>
<b>Modality Worklist</b>		
<b>Modality worklist search</b>	Modality worklist query parameters: Accession Number, Patient's Name, Patient ID, Modality, Scheduled Station AE Title, Scheduled Procedure Step Start Date, Requested Procedure ID.	<b>+</b>
<b>Modality worklist results</b>	Full modality worklist result that includes: Referenced, Study, Patient, Requested and Scheduled procedure information.	<b>+</b>
<b>Configuration Features</b>		
<b>Support character sets</b>	ISO_IR 192 - Unicode in UTF-8, ISO_IR 100 - Latin alphabet No. 1, ISO_IR 144 – Cyrillic.	<b>+</b>
<b>Video profile</b>	Possibility to create and apply profile for the video source device. Selectable: transfer syntax, encoding, audio/video quality, resolution, frame rate per second (fps), aspect ratio.	<b>+</b>
<b>Video length</b>	Possibility to specify video interval length to automatically split videos during recording.	<b>+</b>
<b>Adjust video</b>	Possibility to adjust video settings control: contrast, brightness, hue, sharpness, saturation.	<b>+</b>
<b>Encoding</b>	Possibility to select encoding type: software or intel media SDK.	<b>+</b>
<b>Recording quality</b>	Possibility to choose recording quality.	<b>+</b>
<b>Streaming profile</b>	Possibility to create and apply Profile for video streaming. Selectable: encoding, audio/video, resolution, frame rate per second (fps), audio quality.	<b>+</b>
<b>Streaming quality</b>	Possibility to choose streaming quality.	<b>+</b>
<b>Multilanguage support</b>	Supported languages: English, Lithuanian. Possibility to support more languages by request.	<b>+</b>
<b>Image Transfer syntaxes for still images</b>		
<b>JPEG Baseline (Process 1)</b>	Images can be stored in JPEG Baseline (Process 1) (Transfer Syntax UID: 1.2.840.10008.1.2.4.50).	<b>+</b>
<b>Video Transfer syntaxes for Video Recording</b>		
<b>MPEG2 Main Level</b>	Video can be stored in MPEG2 Main Profile Main Level Transfer Syntax (Transfer Syntax UID: 1.2.840.10008.1.2.4.100).	<b>+</b>
<b>MPEG2 High Level</b>	Video can be stored in MPEG2 Main Profile @ High-Level Transfer Syntax (Transfer Syntax UID: 1.2.840.10008.1.2.4.101).	<b>+</b>
<b>MPEG-4 High Profile</b>	Video can be stored in MPEG-4 AVC/H.264 High Profile / Level 4.1 Transfer Syntax (Transfer Syntax UID: 1.2.840.10008.1.2.4.102).	<b>+</b>
<b>MPEG-4 BD-compatible High</b>	Video can be stored in MPEG-4 AVC/H.264 BD-compatible High Profile / Level 4.1 (Transfer Syntax UID: 1.2.840.10008.1.2.4.103).	<b>+</b>

Supporter SOP classes for video and still images		
<b>Secondary Capture Image Storage</b>	SOP Class for Image/Video Storage Services (SOP UID: 1.2.840.10008.5.1.4.1.1.7).	<b>+</b>
Video recording and still image capture modalities		
<b>OT</b>	Recommended to use this modality for video recording and still images.	<b>+</b>
<b>OP</b>	Possibility to specify other modalities such as: Ophthalmic Photography (DICOM will be stored using Secondary Capture SOP class).	<b>+</b>
<b>ES</b>	Possibility to specify other modalities such as: Endoscopy modality (DICOM will be stored using Secondary Capture SOP class).	<b>+</b>
<b>XC</b>	Possibility to specify other modalities such as: External-camera Photography modality (DICOM will be stored using Secondary Capture SOP class).	<b>+</b>
Integrated DICOM Viewer features		
This specification file contains an only description of MedDream VideoStation product functionalities. MedDream VideoStation product contains also integrated MedDream WEB DICOM Viewer functionalities. <b>For a full list of MedDream DICOM Viewer specifications please read the <a href="#">Specification document</a>.</b> There MedDream viewing functionalities are described, such as:		
<b>General features</b>	Pan, Zoom, Scroll, etc.	<b>+</b>
<b>Measurements</b>	Line, Angle, Polyline, etc.	<b>+</b>
<b>Viewport features</b>	Ellipse ROI propagation, Copy image to the clipboard, Quick save KO and PR, etc.	<b>+</b>
<b>Layout features</b>	Thumbnail position, Multi-image, Hanging Protocols, etc.	<b>+</b>
<b>Manipulation features</b>	Simultaneous scrolling, Sync Windowing, Crosshair, etc.	<b>+</b>
<b>Supporting functions</b>	Report, Study forward, Export, etc.	<b>+</b>
<b>Specific features</b>	Live Share support, PET-CT Fusion, Color channels, etc.	<b>+</b>
<b>ECG</b>	Measurement (mV, s), QT points (RR, QT, QTc), HR, etc.	<b>+</b>
<b>Ultrasound</b>	VTI (Velocity Time Integral), etc.	<b>+</b>
<b>MPR</b>	Orthogonal MPR, Axial MPR, Coronal MPR, Sagittal MPR, etc.	<b>+</b>
<b>Optional advanced MPR features</b>	MPR Oblique, 3D rendering, MPR/MIP comparison, etc.	<b>+</b>
<b>Customization features</b>	Theme, Thumbnail view, Language support, etc.	<b>+</b>
<b>Other viewing functionalities</b>	All viewing functionalities are described in MedDream DICOM Viewer <a href="#">Specification document</a> .	<b>+</b>
Supported modalities in integrated DICOM Viewer		
<b>CR</b>	Computed Radiography modality.	<b>+</b>
<b>CT</b>	Computer Tomography modality.	<b>+</b>
<b>DX</b>	Digital Radiography modality.	<b>+</b>
<b>ECG</b>	Electrocardiography modality.	<b>+</b>
<b>EPS</b>	Cardiac Electrophysiology modality for diagnostic use.	<b>+</b>

<b>ES</b>	Endoscopy modality.	<b>+</b>
<b>IO</b>	Intra-Oral Radiography modality.	<b>+</b>
<b>IVUS</b>	Intravascular Ultrasound modality for diagnostic use.	<b>+</b>
<b>MG</b>	Mammography modality.	<b>+</b>
<b>MR</b>	Magnetic Resonance modality.	<b>+</b>
<b>NM</b>	Nuclear Medicine modality.	<b>+</b>
<b>OT</b>	Other modalities.	<b>+</b>
<b>OP</b>	Ophthalmic Photography modality.	<b>+</b>
<b>OPT</b>	Ophthalmic Tomography modality for diagnostic use.	<b>+</b>
<b>OCT</b>	Optical Coherence Tomography (non-Ophthalmic) modality for diagnostic use.	<b>+</b>
<b>PT</b>	Positron Emission Tomography (PET) modality.	<b>+</b>
<b>PX</b>	Panoramic X-Ray modality.	<b>+</b>
<b>RF</b>	Radio Fluoroscopy modality.	<b>+</b>
<b>RG</b>	Radiographic imaging modality.	<b>+</b>
<b>SC</b>	Secondary Capture modality.	<b>+</b>
<b>US</b>	Ultrasound modality.	<b>+</b>
<b>XA</b>	X-Ray Angiography modality.	<b>+</b>
<b>XC</b>	External-camera Photography modality.	<b>+</b>

All viewing functionalities and a full list of MedDream DICOM Viewer specifications are described in [Specification document](#).

#### **Integration into PACS/VNA, Medical Information systems or applications**

<b>PACS</b>	Store recorded data into PACS server. Possibility to review patient historical DICOM data.	<b>+</b>
<b>VNA</b>	Store recorded data into the VNA server. Possibility to review patient historical DICOM data.	<b>+</b>
<b>DICOM Archive</b>	Store recorded data into the DICOM archive. Possibility to review patient historical DICOM data.	<b>+</b>

#### **Integration into OEM application**

<b>OEM application</b>	Integration into medical applications, video recording solutions or surgery applications. Application control API can be provided (on commercial request).	<b>+</b>
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#### **Licensing**

<b>Station Licensing</b>	Station licensing per installed instance (per user workstation or PC).	<b>+</b>
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#### **Operating System support**

<b>Windows</b>	It is a Windows desktop application, that can be installed on Windows 7/8/10/11 (64 bit).	<b>+</b>
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#### **Regulatory**

<b>USA FDA</b>	K162011, 510 (k) cleared as a Class II medical device.	<b>+</b>
<b>Europe CE</b>	Certified as a Class IIb device according to MDR.	<b>+</b>

<b>United Kingdom MHRA</b>	Registered as radiology picture archiving and communication system workstation.	<b>+</b>
<b>Switzerland Registration</b>	Registered as IIB class radiology picture archiving and communication system workstation.	<b>+</b>
<b>Thailand FDA</b>	Received approval for distribution.	<b>+</b>
<b>Singapore Registration</b>	Registered as a Class B medical device.	<b>+</b>
<b>Russia Registration</b>	Registered as a Class 2b medical device.	<b>+</b>