

Function	Description	v4.40
Main features		
Video Recording	Certified medical grade video recording software.	+
Still Image Capture	Possibility to take high quality snapshots.	+
DICOM	Medical video recording into DICOM format by using MPEG2 and MPEG-4 AVC/H.264 compression. Still images saved in DICOM.	+
Live Stream	Live stream video by RTSP protocol during the procedure.	+
Real time processing	Record, stream, play video and take snapshots at the same time.	+
Modality Worklist	Possibility to select patient data from DICOM modality worklist (query DICOM modality worklist from worklist server).	+
Patient/Study Management	Flexible patient data assignment: selecting already existing patient, manually entering the patient details or selecting from hospital DICOM worklist server.	+
Send to PACS	Recorded studies can be stored locally or sent to the PACS (medical image archive or VNA).	+
Review	Review recorded medical images/video during the surgery or other procedures.	+
Video editing	Possibility to trim selected video record.	+
Export	Possibility to export recorded data to storage device.	+
DICOM Viewer	View historical patient studies with integrated DICOM Viewer.	+
Multiple video sources	Record video/take images from multiple connected devices (special video card needed).	+
Video types	Cameras, scopes (endoscopes, arthroscopes etc.), microscopes and other.	+
Auto purge	Auto delete (optional) old studies to make free recording space available.	+
Touchscreen control	Software adapted to use by touch screen monitors. On screen keyboard available.	+
Supported Hardware		
All-In-One solution	Bundle: Medical Panel PC + VideoStation software. Panel PC 21"-27", touchscreen, fan-less.	+
Mini PC solution	Bundle: Medical Mini PC + VideoStation software. Monitor 10", touchscreen, fan-less.	+
PC	Usual PC with recommended graphic card can be used.	+
OEM	Solution can be adopted and integrated into custom hardware.	+
Foot Pedal	Additional foot pedal support.	+
Selectable Video Inputs (specific capture board required)		
SDI	HD-SDI or SD-SDI Video connection.	+
HDMI	HDVI video connection.	+
DVI	DVI video connection.	+
S-Video	Mini-DIN analog S-Video connection.	+

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

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

NM	Nuclear Medicine modality.	+
US	Ultrasound modality.	+
OP	Ophthalmic Photography modality.	+
RF	Radio Fluoroscopy modality.	+
ES	Endoscopy modality.	+
ECG	Electrocardiography modality.	+
IO	Intra-Oral Radiography modality.	+
PX	Panoramic X-Ray modality.	+
RG	Radiographic imaging modality.	+
SC	Secondary Capture modality.	+
XC	External-camera Photography modality.	+
MG	Mammography modality.	+
OT	Other modalities.	+
Integration into PACS/VNA, Medical Information systems or applications		
PACS	Store recorded data into PACS server. Possibility to review patient historical DICOM data.	+
VNA	Store recorded data into VNA server. Possibility to review patient historical DICOM data.	+
DICOM Archive	Store recorded data into DICOM archive. Possibility to review patient historical DICOM data.	+
Integration into OEM application		
OEM application	Integration into medical applications, video recording solutions or surgery applications. Application control API can be provided (on commercial request).	+
Licensing		
Station Licensing	Station licensing per installed instance (per user workstation or PC).	+
Operating System support		
Windows	It is Windows desktop application, can be installed on Windows 7/8/10/11 (64 bit).	+
Regulatory		
USA FDA	K162011, 510 (k) cleared as a Class II medical device.	+
Europe CE	Certified as a 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.	+