

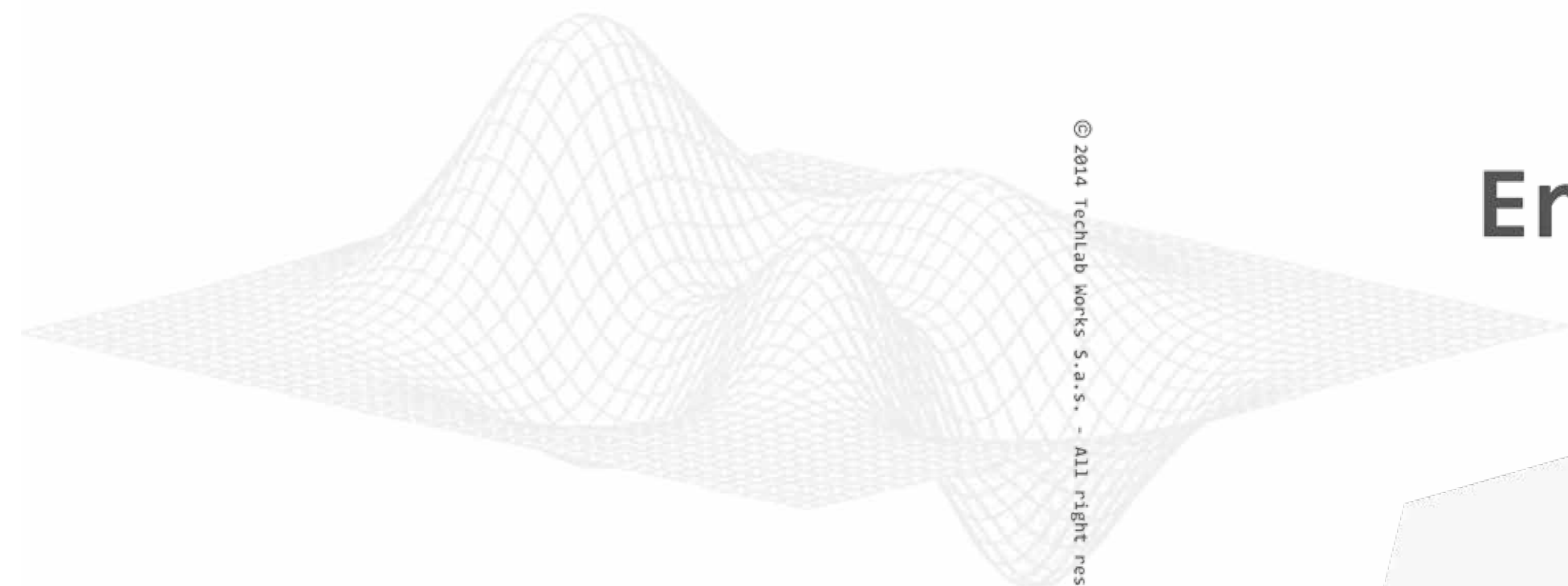
Your advanced medical workstation



Station



More than a simple video recorder



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EndoStation



Endo



Streaming and connection with the OR

Thanks to the EndoStation™ you can view the video streams coming from all operating rooms connected. The EndoStation™ allows to distribute the video sources on the network infrastructure allowing, thus, the live streaming of a surgery or a diagnostic procedure. The performances of its processors, allow to make complex computations in real time, for a video streaming up to full HD. It is possible to connect audio devices for a bidirectional video/audio conference and to execute telestrator functions such as applying shapes, text and lines on the streaming video.

The recording channel is independent from the streaming one. You can connect up to four digital video sources and decide among these, which signal, independently one from each other, has to be recorded or distributed to the network. EndoStation™ allows, also, the connection up to two analogue video signals. You can choose the best solution among different video converter. Thanks to the quad system, you can acquire and stream four video signals at the same time, choosing the best layout of your view.

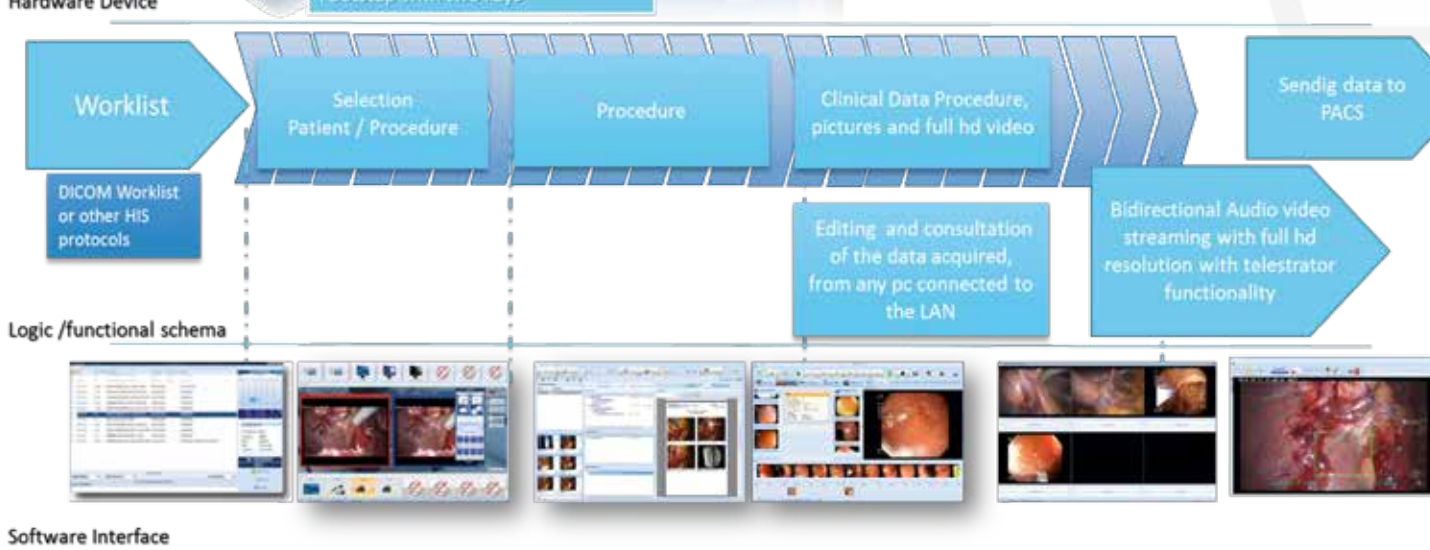


TechLab Works S.a.s.
Via Beato Angelico, 2
95039-Trecastagni(CT)-Italy
www.techlabworks.com
info@techlabworks.com

The great solution for the management of high resolution video

The use of the latest generation of processors makes the EndoStation™ the ideal tool to acquire and manage the video streams coming from surgical video devices and to distribute them through IP streaming. It allows you to capture, store and edit pictures and video derived from the systems used in diagnostic imaging departments or in the operating room. The high performances allow you to manage video streams up to full-HD resolution.

The EndoStation™ can be easily connected to any network infrastructure, both wired and wireless, becoming the basic module to share, review and edit patient's information, diagnostic and surgical procedures, both locally and remotely. You can work in "stand-alone mode" or in "on-line mode", sharing your data with a central server.



The ideal solution for the management of high-resolution video sources, clinical data and medical devices in OR

Control your environment with a simple touch

EndoStation™ can be equipped with an integrated touchscreen up to 12 inch that allows the full control of the functionalities of the whole system. EndoStation™ can be put up to a suspension system in the operating theatre or in a medical trolley. The software is completely designed for being used with touchscreen display. You can also control medical devices such as endo camera, light sources, surgical lamp by the use of the workstation.



Video images in the Electronic Patient Record (EPR)

EndoStation™ manages all the stored video images linked to the patient's clinical data and captured during the surgical and/or diagnostic procedures. By using compression loss less, images can be recovered with native resolution and quality in order to make an excellent diagnosis. The EndoStation™ allows you to save frames and to extract video tracks.



The workstations allow to export pictures in different formats. It is also implemented an advanced edit module in order to insert text and forms in a picture to underline some details. Image parameters such as brightness, contrast and level curves can be improved and modified. It's possible to save all the keyframes, for example those related to a lesion.



More than a simple video recorder

If connected to the System of Electronic Patient Record E.I.S.™, the EndoStation™ shares all the clinical data, images and videos with all the connected pc. It allows you to view in a simple pc all the video streams derived from the operating rooms connected and to start an audio/video conference with an operating room connected. The system allows you to modify the patient record following a multiusers architecture. Each physician can modify the patient record. This update will be registered with a digital signature and it will be saved in the patient record. With the storage modules in a few clicks you can call or visit a patient record, a surgical procedure, or patient's clinical history.

EndoStation slim FullHD	EndoStation slim FullHD dual channel	EndoStation slim FullHD four channel
Dimensions (WxHxD) 435 x 210 x 390mm	Dimensions (WxHxD) 435 x 210 x 390mm	Dimensions (WxHxD) 435 x 210 x 390mm
Rearside	Rearside	Rearside
<ul style="list-style-type: none"> 6 x usb ports (3.0/2.0) 1 x headphone (HD & AC97) 1 x microphone (HD & AC97) 	<ul style="list-style-type: none"> 6 x usb ports (3.0/2.0) 1 x headphone (HD & AC97) 1 x microphone (HD & AC97) 	<ul style="list-style-type: none"> 6 x usb ports (3.0/2.0) 1 x headphone (HD & AC97) 1 x microphone (HD & AC97)
1 x Ethernet 1000Mbit	1 x Ethernet 1000Mbit	1 x Ethernet 1000Mbit
Hardware Deinterlace for compatible video source	Hardware Deinterlace for compatible video source	Hardware Deinterlace for compatible video source
Max fps 60fps @ 1920x1080i	Max fps 60fps @ 1920x1080i	Max fps 60fps @ 1920x1080i
Recording Mode: Hardware Compression, Real-Time Mode	Recording Mode: Hardware Compression, Real-Time Mode	Recording Mode: Hardware Compression, Real-Time Mode
Recording video format (dual codec): H.264 Main Profile (Hardware Compression)	Recording video format (dual codec): H.264 Main Profile (Hardware Compression)	Recording video format (dual codec): H.264 Main Profile (Hardware Compression)
Recording video resolution tested (dual stream): 1920x1080p@30/25/24fps + 960x540p@30/25/24fps 1920x1080i@60/50fps + 960x540i@60/50fps 1280x720p@60/50fps + 640x360p@60/50fps 1280x720p@30/25fps + 640x360p@30/25fps 720x480i@60fps + 352x240i@60fps 720x576i@50fps + 352x288i@50fp	Recording video resolution tested (dual stream): 1920x1080p@30/25/24fps + 960x540p@30/25/24fps 1920x1080i@60/50fps + 960x540i@60/50fps 1280x720p@60/50fps + 640x360p@60/50fps 1280x720p@30/25fps + 640x360p@30/25fps 720x480i@60fps + 352x240i@60fps 720x576i@50fps + 352x288i@50fp	Recording video resolution tested (dual stream): 1920x1080p@30/25/24fps + 960x540p@30/25/24fps 1920x1080i@60/50fps + 960x540i@60/50fps 1280x720p@60/50fps + 640x360p@60/50fps 1280x720p@30/25fps + 640x360p@30/25fps 720x480i@60fps + 352x240i@60fps 720x576i@50fps + 352x288i@50fp
VideoIn Interface: n.1 HDMI	VideoIn Interface: n.2 HDMI	VideoIn Interface: n.4 HDMI
Audio Format: Stereo / 16-bit / 32000 ~ 48000Hz	Audio Format: Stereo / 16-bit / 32000 ~ 48000Hz	Audio Format: Stereo / 16-bit / 32000 ~ 48000Hz
Audio Streaming (n.2 independent channel)	Audio Streaming (n.2 independent channel)	Audio Streaming (n.2 independent channel)
Processor Intel® Core™	Processor Intel® Core™	Processor Intel® Core™
up to 32 G GB DDR2 SO-DIMM	up to 32 G GB DDR2 SO-DIMM	up to 32 G GB DDR2 SO-DIMM
DVD Burner Dual Layer	DVD Burner Dual Layer	DVD Burner Dual Layer
Blue Ray burner (on demand)	Blue Ray burner (on demand)	Blue Ray burner (on demand)
RFID and smart card (on demand)	RFID and smart card (on demand)	RFID and smart card (on demand)
HDD 2 TB SATAII	HDD 2 TB SATAII	HDD 2 TB SATAII
HDD 4 TB SATAII configuration Raid 0,1,5,10 (on demand)	HDD 4 TB SATAII configuration Raid1 (on demand)	HDD 4 TB SATAII configuration Raid1 (on demand)
Wireless 802.11b/g/n (on demand)	Wireless 802.11b/g/n (on demand)	Wireless 802.11b/g/n (on demand)
Medical Grade, EN60601-1, IEC60601-1, ISO 14971, CEE 89/33, AC 100V~240V input Prod. Cod.: TLW_MS_EVHW_0003HD	Medical Grade, EN60601-1, IEC60601-1, ISO 14971, CEE 89/33, AC 100V~240V input Prod. Cod.: TLW_MS_EVHW_1003HD	Medical Grade, EN60601-1, IEC60601-1, ISO 14971, CEE 89/33, AC 100V~240V input Prod. Cod.: TLW_MS_EVHW_4003HD

EndoStation	
TLW_MS_EVHW_0003HD	EndoStation slim FullHD
TLW_MS_EVHW_1003HD	EndoStation Slim fullHD dual streaming
TLW_MS_EVHW_4003HD	EndoStation Slim full HD four channel HDMI
TLW_MS_EVHW_5003HD	EndoStation slim full HD four channel HDMI and quad system

Slot converting/Scaling	
TLW_VP-425	Video Scaler from VGA/HD to HDMI
TLW_VP-410	Video Scaler from CV to HDMI
TLW_FC-331	Video converter from 3G HD/SD-SDI to HDMI
TLW_VP-434	Video scaler from CV, V/C to HDMI

Accessories	
TLW_MS_FS_001	Footstep with two switches
TLW_ET1919	19" touchscreen display white, VESA 100x100
TLW_MS_KEY_MED	Medical keyboard