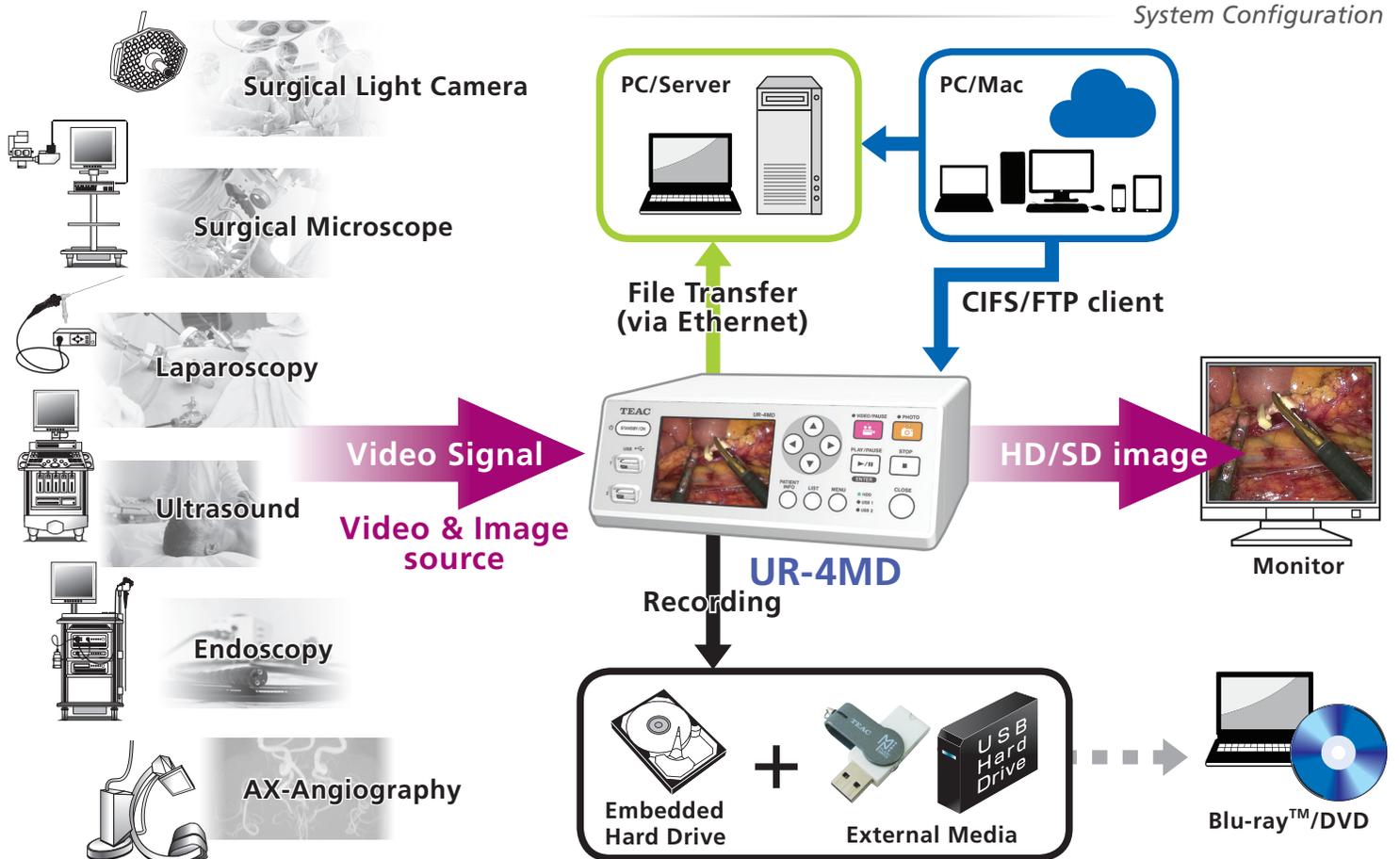# TEAC

It's never been so easy to capture Medical Imaging

- **Full HD 1920 x 1080 video recording**
- **Extreme ease of use**
- **Advanced Fail-safe features**
- **3.5" LCD monitor for Live View, Playback or GUI**

UR-4MD

UR-4MD is TEAC's latest high-definition medical video recorder designed for quick set up and ease of use, yet includes a robust list of features and capabilities. With auto sensing video connections and automatic video resolution detection, set up is quick and easy.

The front control panel allows users to intuitively record videos and photos in crystal clear HD.

A built in hard drive is included for reliable recording, data back-up and users can also simultaneously record to USB memory and USB hard drives to archive, share and play back on other devices and locations. UR-4MD is also Network capable.

System Configuration

Surgical Light Camera

Surgical Microscope

Laparoscopy

Ultrasound

Endoscopy

AX-Angiography

Video Signal

Video & Image source

PC/Server

PC/Mac

File Transfer (via Ethernet)

CIFS/FTP client

UR-4MD

Recording

HD/SD image

Monitor

Embedded Hard Drive

+

External Media

Blu-ray™/DVD

Features

- **Intuitive** & **Easy To Use**
- **Auto-sensing** detects I/O & Video Resolution " automatically "
- Wide range of **recording resolutions**
  - 640x 480 ~ 1920x 1080 (30Hz/29.97Hz) : Undiluted recoding resolution
  - 1920x 1200 (Resize to 1728x 1080)   : Supported Input resolution
- **Multiple HD & SD inputs/outputs** (SDI, DVI-D, S-Video and Composite)
- **Simultaneous recording** to multiple media (up to 2 External USB drives & 1 Internal HD)
- **Networking** (FTP & CIFS) RJ45 10/100/1000 Ethernet
- **Command Control** via USB
- Remote control, Foot-switch, Card/Barcode reader and Keyboard (Optional)
- Compliance with **Medical Standards**

UR-4MD

Designed for the mission critical OR environment

✓ Fail-safe recording feature w/ the Internal Hard Drive for redundant data backup

✓ S.M.A.R.T. monitors/ reports Internal Hard Drive health (Self-Monitoring, Analysis and Reporting Technology)

✓ Safe auto-shutdown in case of power interruption

Specifications

General		
Recordable Devices	USB Flash Drive	
	USB Hard Drive	
	Internal Hard Drive (500GB)	
Display	3.5 inch LCD	
Power supply	AC 100V - 240V 50/60Hz	
Operating temperature	41 to 104 deg F (5 to 40 deg C)	
Storage temperature	-4 to 140 deg F (-20 to 60 deg C)	
Operating humidity	5 to 80% (No condensation)	
Dimention (W x D x H)	Approx. 8 1/4 x 9 1/4 x 3 3/8 in (210.5 x 235 x 88.5 mm)	
Weight	Approx. 5.7 lbs. (2.6 kg)	
Standars	Safety	IEC60601-1, CSA60601-1, EN60601-1
	EMC	IEC60601-1-2, EN60601-1-2, ICES-003, FCC Class B
Category	FDA Class 1	
Accessories(Optional)	Remote control unit, Foot-switch, Keyboard, Barcode / Card Reader	

Approximate Recording Times for a 500GB Hard Drive

High-Definition 1920 x 1080		
12Mbps	**18Mbps**	**24Mbps**
90 hours	60 hours	45 hours
Standard-Definition 640 x 480		
5Mbps	**8Mbps**	**10Mbps**
180 hours	135 hours	100 hours

Recording Format	
Still image	Jpeg, DICOM (*.dcm: optional), TIFF
Video	MPEG-4 AVC/H.264

Input/Output		
Input for Video	SDI (BNC) x1	3G/HD-SDI : 1080p / 1080i / 720p, SD-SDi : 480i / 576i
	DVI (Single Link) x1	High-Definition
	S-Video x1	NTSC, PAL
	Composite (BNC) x1	NTSC, PAL
Input for Audio	SDI (BNC) x1	*SDI video input terminal use in common.
	Stereo mini jack x2	LINE, MIC
Output for Video	SDI (BNC) x1	3G/HD-SDI : 1080p / 1080i / 720p, SD-SDi : 480i / 576i
	DVI (Single Link) x1	High-Definition
	S-Video x1	NTSC, PAL
	Composite (BNC) x1	NTSC, PAL
	SDI Thru x1	
Output for Audio	SDI (BNC) x1	*SDI video output terminal use in common.
	Stereo mini jack x1	LINE
Other Interfaces	RJ-45 (10BASE-T / 100BASE-TX /1000BASE-T) x1	
	USB2.0 Type A x3	2 front connectors for Recordable Devices
		1 rear connector for Optional Accessories
	USB2.0 Type B x1	1 rear connector for accessing the internal Hard Drive (on UR-4MD)
	Stereo mini jack x3	for external trigger

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*Features and specifications are subject to change without notice.

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Rear Panel