

MEDICAL PRODUCT CATALOG



UPro Medical Inc.

www.upromedical.com



**UPRO MEDICAL
YOUR
BEST PARTNER.**

4K60fps ULTRA HD SYSTEM



4K@60fps image processing technology uses the SONY ultra-high-definition CMOS Sensor to enhance image details and blood vessel color rendering, perfectly displaying ultra-high-definition, smooth, clear, and delay-free surgical images.

3D4K ULTRA HD SYSTEM

The latest 3D 4K60fps Endoscopic ICG imaging system is a "4K+3D+ICG" image processing technology combination that achieves five major features:

high definition, three-dimensional, accurate, fast, and safe. Using 4K60fps high-definition 3D stereoscopic optical depth processing technology to create realistic images, helps doctors complete surgeries more quickly, accurately, and safely.

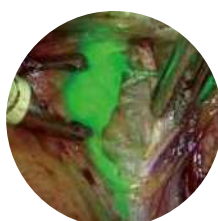


MEDICAL NIR/ICG/WHITE LED LIGHT SOURCE

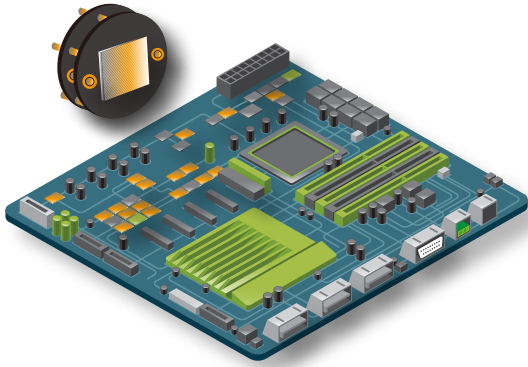
Blue & green ICG imaging technology helps doctors quickly and accurately identify important information such as major blood vessels and tumors, reducing the time and risks of surgery, and bringing greater improvements to Endoscopic surgery.



White LED
Light Source



ICG LED
Light Source



MEDICAL CUSTOMIZED MODULE

Our high-quality Taiwanese R&D team and factory production ability can provide excellent OEM/ODM medical module customization services applied to different surgical scenarios in hospitals and functions required by customers, as well as provide timely function FW upgrades and complete after-sales services.

3D4K MEDICAL MONITOR

Wide-viewing-angle Glass Pattern Retarder 3D medical monitor 32" 4K high-resolution, high-contrast, wide-color gamut, and wide-viewing-angle 3D medical display, high contrast and wide color gamut technology can make the depth of field more obvious and clearer, the doctor can operate the movements more efficiently. Besides, wide-viewing-angle 3D medical display reduces the crosstalk phenomenon that may occur due to different angles during the doctor's operation.



LAPAROSCOPIC and ARTHROSCOPY TRAINER

The LAPAROSCOPIC and ARTHROSCOPY TRAINER can assist the medical surgery team in training operations. Highly restores the scene under the Endoscopic surgery with the realistic simulation of the surgical process, which provides users with a more complete endoscopic training experience.



MEDICAL ENDOSCOPY

VETERINARY ENDOSCOPY

LED LIGHT SOURCE

CUSTOMIZED MODULE

MEDICAL PERIPHERALS

CONTENTS

MEDICAL PERIPHERALS

VETERINARY ENDOSCOPY

LED LIGHT SOURCE

CUSTOMIZED MODULE

MEDICAL ENDOSCOPY

Medical Endoscopy	04
4K60fps ULTRA HD System	05
3D 4K ULTRA HD System	07
1080P FHD System	09
Veterinary Endoscopy	11
Medical NIR/ICG LED Light Source	14
Medical Customized Module	16
3D4K Medical Monitor	19
4K 20X Muti-Function Professional PTZ Camera	21
Laparoscopic Trainer	23
Arthroscopy Trainer	25
Medical Cart / Endoscopy Trolley	27

High-quality OEM/ODM Medical Product Customization Services



- Medical Endoscopy
- Medical NIR/ICG LED Light Source
- Medical 4K 20X PTZ Camera
- Medical Customized Module

MEDICAL ENDOSCOPY



4K60fps ULTRA HD SYSTEM

MEDICAL ENDOSCOPY

MEDICAL PERIPHERALS



LED Light Source, Can Be Used with Various Medical Endoscopy Systems



NIR/ICG Blue & Green Light Sources Help Identify Blood Vessels and Tumors, Can Be Used with Various Medical Endoscopy Systems



4K2K @60fps Image & Video Output Technology, Creating FHD Smooth Images Efficacy



USB Storage Device for Saving 1080P FHD Pictures and 1080P@60fps Videos



Normal Mode & ICG Mode PIP Function



ZOOM In/Out PIP Function

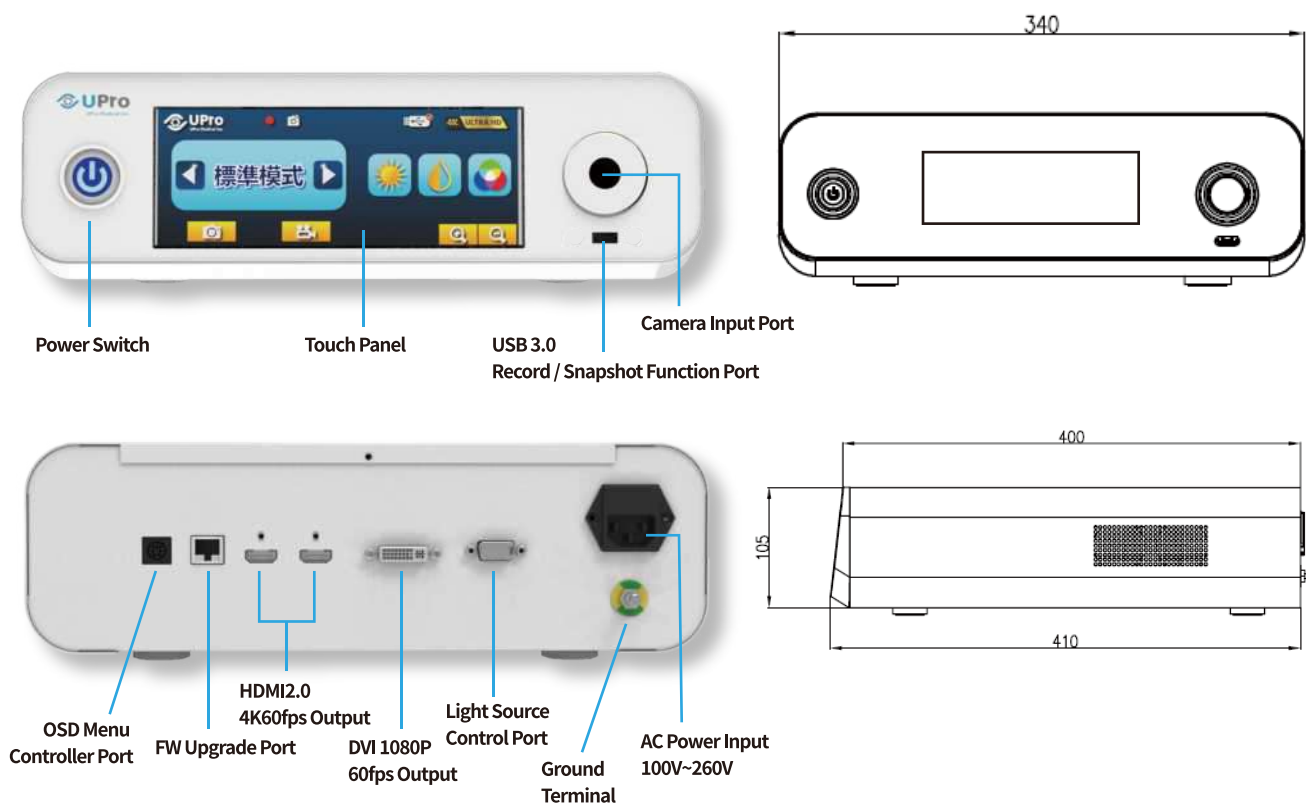


Six Different Complete Medical Modes for Different Scene



Touch Panel Control

Welcome OEM/ODM products



Model		UPE-C4K03	UPE-C4K05
Name		4K@Scaler 60fps Medical Endoscopy	4K@60fps Medical Endoscopy
Image	Live Resolution	4096*2160P @Scaler 60fps 3840*2160P @Scaler 60fps 1920*1080P @60fps	4096*2160P @60fps 3840*2160P @60fps 1920*1080P @60fps
	Sensor	Sony 1/2.5"	Sony 1/2.8"
	Photo Resolution	3840*2160P	
	Record Resolution	3840*2160P @30fps	3840*2160P @60fps
Hardware	Output Interface	HDMI_Out1、HDMI_Out2、DVI_Out、DI/DO、D-Sub_Out	
	Input Interface	USB2.0_In、S-Sub_In	
Function	Handle Button Function	Snapshot, Record, White light/ICG Mode Switching, White Balance Control	
	White Balance	Auto, Manual	
	Touch Panel Mode	Standard Mode, Stomach Mode, Liver & Gallbladder Mode, Gynecology Mode, Small Scopocal Mode	
	ICG Mode	NIR ICG Blue and Green Modes	
	Screen Mode	Single Screen Mode, ICG PIP Mode, Digital Zoom In/Out Mode	
Video & Photo	Language	Chinese, English, Japanese	
	USB Storage Device	Support snapshot & record, maximum 512G	
	Video Format	30—120min / MP4	
	Compression Format	H.265/H.264	
General	Photo Format	JPG	
	Power Supply	220V±22V, 50Hz±5Hz	
	Size	340 (W) *105mm (H) *400/410 (D)	

3D4K ULTRA HD SYSTEM

MEDICAL ENDOSCOPY

MEDICAL PERIPHERALS



LED Light Source, Can Be Used with Various Medical Endoscopy Systems



NIR/ICG Blue & Green Light Sources Help Identify Blood Vessels and Tumors, Can Be Used with Various Medical Endoscopy Systems



4K@Scaler 60fps Image & Video Output Technology, Creating FHD Smooth 3D Images Efficacy



USB Storage Device for Saving 1080P FHD Pictures and 1080P@60fps Videos



Normal Mode & ICG Mode PIP Function



ZOOM In/Out PIP Function

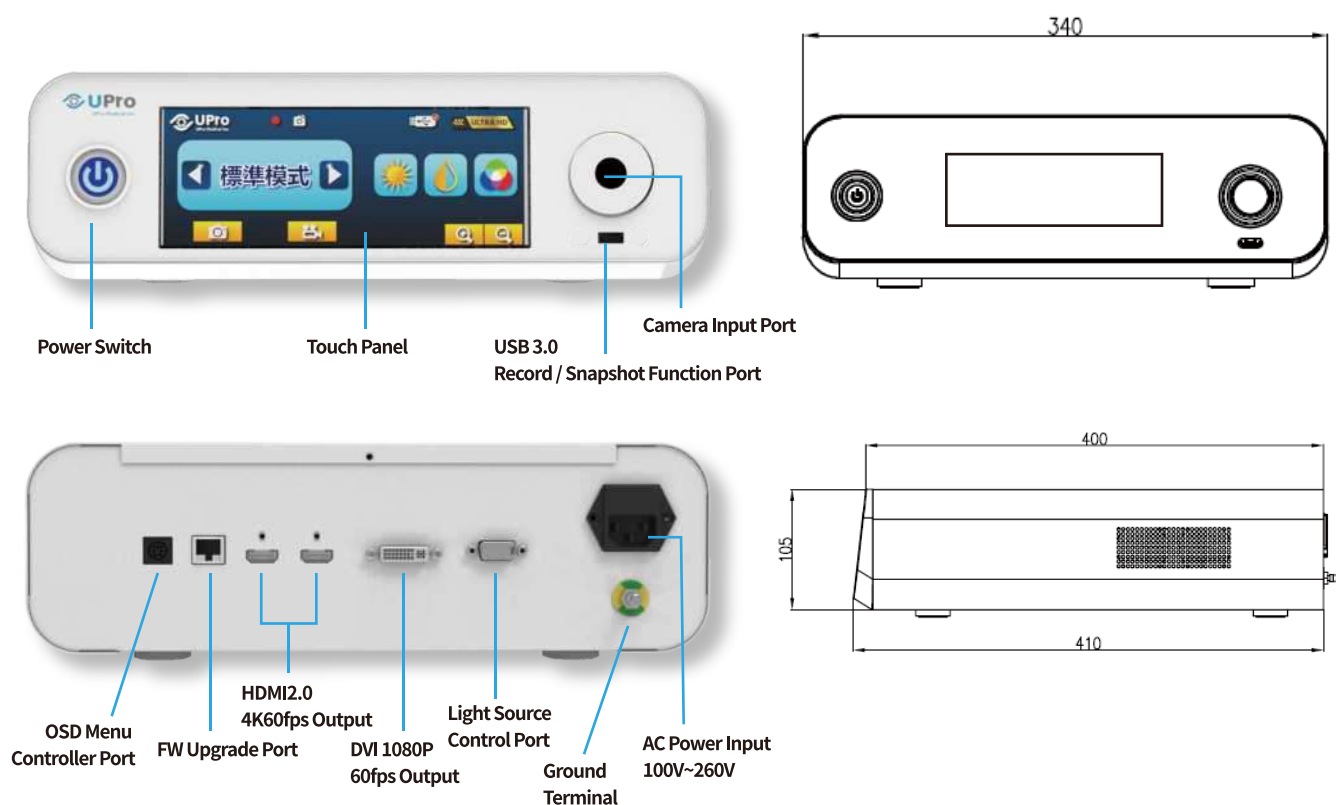


Six Different Complete Medical Modes for Different Scene



Touch Panel Control

Welcome OEM/ODM products



Model		UPE-C4K03DD	UPE-C4K05DD	UPE-C4K05DE
Name		SCALER 4K60 3D BINOVULAR MEDICAL ENDOSCOPY	4K60 3D BINOVULAR MEDICAL ENDOSCOPY	4K60 3D MONOCULAR MEDICAL ENDOSCOPY
Image	Live Resolution	4096*2160P @Scaler 60fps 3840*2160P @Scaler 60fps 1920*1080P @60fps	4096*2160P @60fps 3840*2160P @60fps 1920*1080P @60fps	
	Sensor	Sony 1/2.5 ²	Sony 1/2.8 ²	
	Photo Resolution	3840*2160P		
	Record Resolution	3840*2160P @Scaler 60fps	3840*2160P @60fps	
Hardware	Output Interface	HDMI_Out1\HDMI_Out2\DVI_Out\DI/DO\D-Sub_Out		
	Input Interface	USB2.0_In\S-Sub_In		
Function	Handle Button Function	Snapshot, Record, White light/ICG Mode Switching, White Balance Control		
	White Balance	Auto, Manual		
	Touch Panel Mode	Standard Mode, Stomach Mode, Liver & Gallbladder Mode, Gynecology Mode, Small Scopical Mode		
	ICG Mode	NIR ICG Blue and Green Modes		
	Screen Mode	Single Screen Mode, ICG PIP Mode, Digital Zoom In/Out Mode		
	Language	Chinese, English, Japanese		
Video & Photo	USB Storage Device	Support snapshot & record, maximum 512G		
	Video Format	30—120min / MP4		
	Compression Format	H.265/H.264		
	Photo Format	JPG		
General	Power Supply	220V±22V·50Hz±5Hz		
	Size	340 (W) *105mm (H) *400/410 (D)		

1080P FHD SYSTEM

MEDICAL ENDOSCOPY

MEDICAL PERIPHERALS



LED Light Source, Can Be Used with Various Medical Endoscopy Systems



NIR/ICG Blue & Green Light Sources Help Identify Blood Vessels and Tumors, Can Be Used with Various Medical Endoscopy Systems



1080P @60fps Image & Video Output Technology, Creating FHD Smooth Images Efficacy



USB Storage Device for Saving 1080P FHD Pictures and 1080P@60fps Videos



Normal Mode & ICG Mode PIP Function



ZOOM In/Out PIP Function

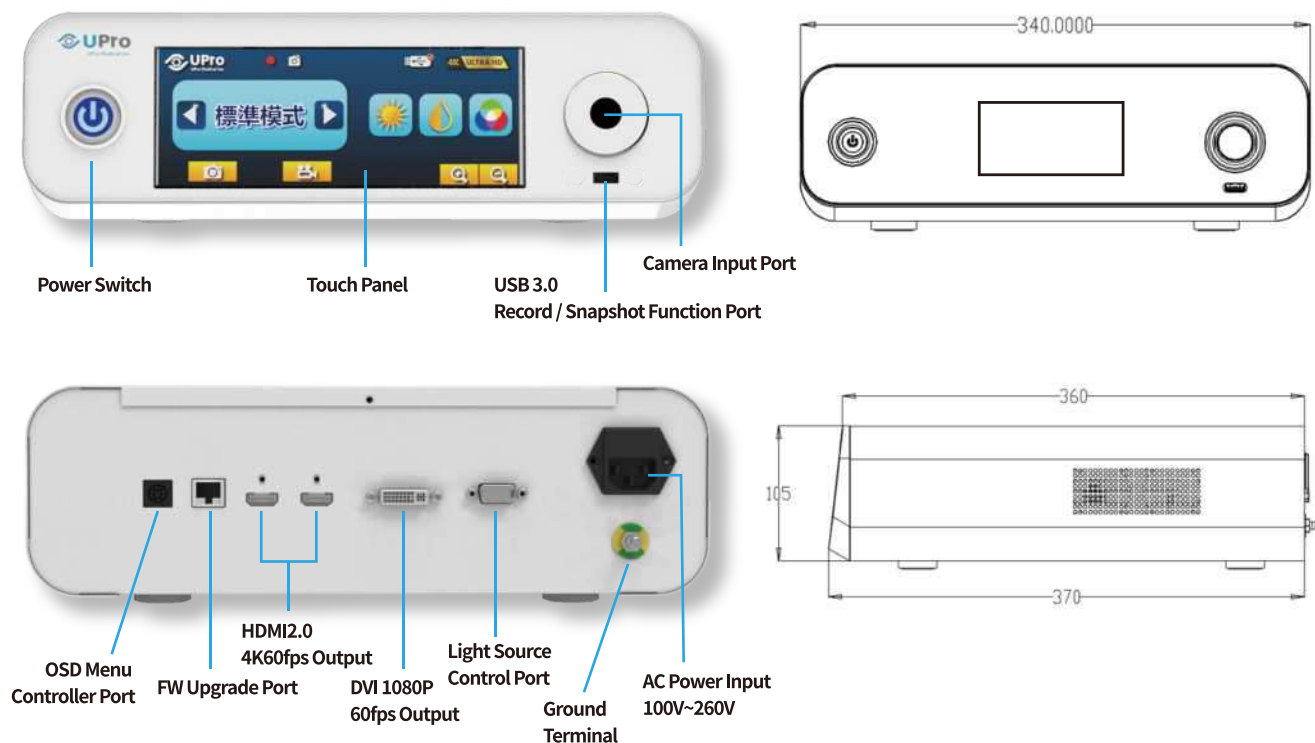


Six Different Complete Medical Modes for Different Scene



Touch Panel Control

Welcome OEM/ODM products



Model		UPE-C2K01
Name		1080P@60fps Medical Endoscopy
Image	Live Resolution	1920*1080P @60fps
	Sensor	Sony 1/2.8"
	Photo Resolution	1920*1080P
	Record Resolution	1920*1080P @60fps
Hardware	Output Interface	HDMI_Out1、HDMI_Out2、DVI_Out、DI/DO、D-Sub_Out
	Input Interface	USB2.0_In、S-Sub_In
Function	Handle Button Function	Snapshot, Record, White light/ICG Mode Switching, White Balance Control
	White Balance	Auto, Manual
	Touch Panel Mode	Standard Mode, Stomach Mode, Liver & Gallbladder Mode, Gynecology Mode, Small Scopical Mode
	ICG Mode	NIR ICG Blue and Green Modes
	Screen Mode	Single Screen Mode, ICG PIP Mode, Digital Zoom In/Out Mode
	Language	Chinese, English, Japanese
Video & Photo	USB Storage Device	Support snapshot & record, maximum 512G
	Video Format	30—120min / MP4
	Compression Format	H.265/H.264
	Photo Format	JPG
General	Power Supply	220V±22V, 50Hz±5Hz
	Size	340 (W) *105mm (H) *360/370 (D)

VETERINARY ENDOSCOPY

VETERINARY ENDOSCOPY





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LED Light Source, Can Be Used with Various Medical Endoscopy Systems
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4K @Scaler 60fps Image & Video Output Technology, Creating FHD Smooth Images Efficacy
- 

USB Storage Device for Saving 1080P FHD Pictures and 1080P@60fps Videos
- 

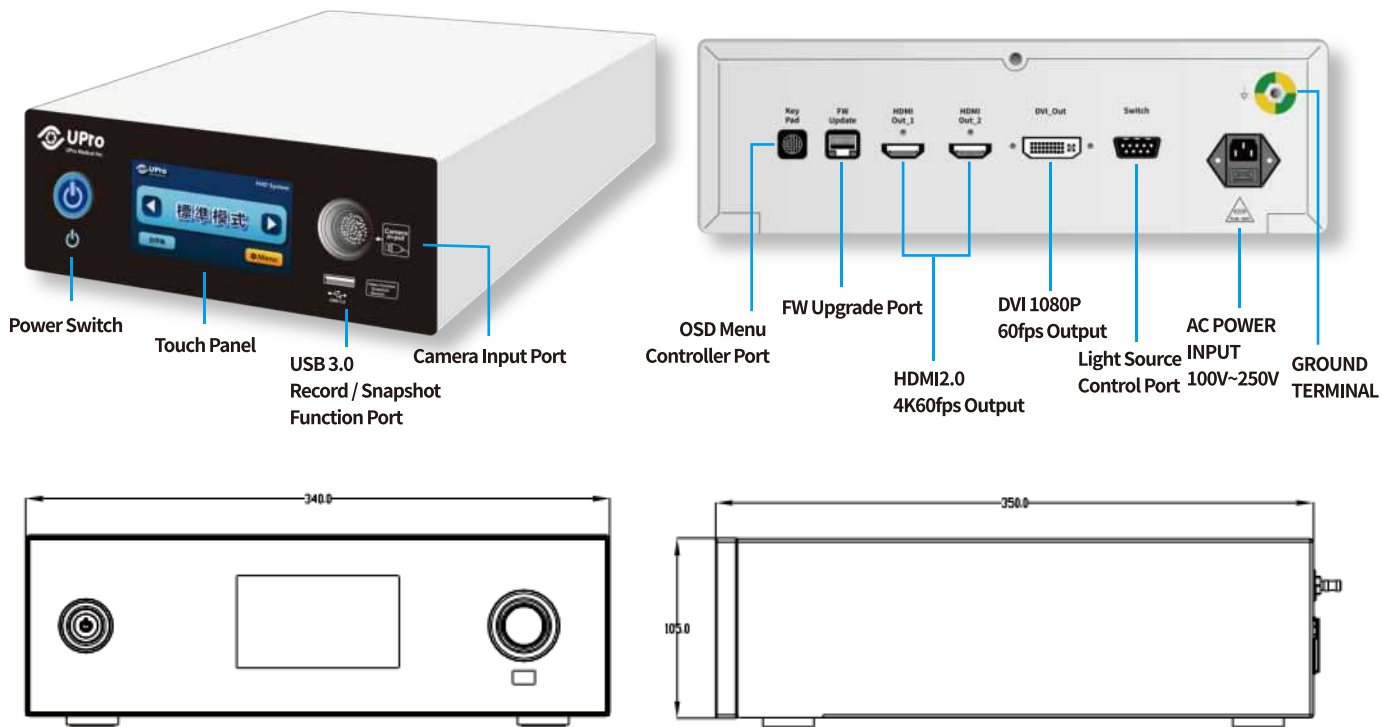
Normal Mode & ICG Mode PIP Function
- 

ZOOM In/Out PIP Function
- 

Four Different Complete Medical Modes for Different Scene
- 

Touch Panel Control

Welcome OEM/ODM products



Name		1080P@60fps Veterinary Endoscopy	4K@Scaler 60fps Veterinary Endoscopy
Image	Live Resolution	1920*1080P @60fps	4096*2160P @Scaler 60fps 3840*2160P @Scaler 60fps 1920*1080P @60fps
	Sensor	Sony 1/2.8"	Sony 1/2.5"
	Photo Resolution	1920*1080P	3840*2160P
	Record Resolution	1920*1080P @60fps	3840*2160P @30fps
Hardware	Output Interface	HDMI_Out1、HDMI_Out2、DVI_Out、DI/DO、D-Sub_Out	
	Input Interface	USB2.0_In、S-Sub_In	
Function	Handle Button Function	Snapshot, Record, White light/ICG Mode Switching, White Balance Control	
	White Balance	Auto, Manual	
	Touch Panel Mode	Standard Mode 1, Standard Mode 2, Standard Mode 3, Standard Mode 4	
	Screen Mode	Single Screen Mode, Digital Zoom In/Out Mode	
Video & Photo	Language	Chinese, English, Japanese	
	USB Storage Device	Support snapshot & record, maximum 512G	
	Video Format	30—120min / MP4	
	Compression Format	H.265/H.264	
General	Photo Format	JPG	
	Power Supply	220V±22V, 50Hz±5Hz	
	Size	340 (W) *105mm (H) *350 (D)	

MEDICAL NIR/ICG LED LIGHT SOURCE



LED LIGHT SOURCE



WHITE
LED

LED Light Source, Can Be Used with Various Medical Endoscopy Systems

NIR/ICG
LED

NIR/ICG Blue & Green Light Sources Help Identify Blood Vessels and Tumors,
Can Be Used with Various Medical Endoscopy Systems

6,500K

White LED Color Temperature 6,500K

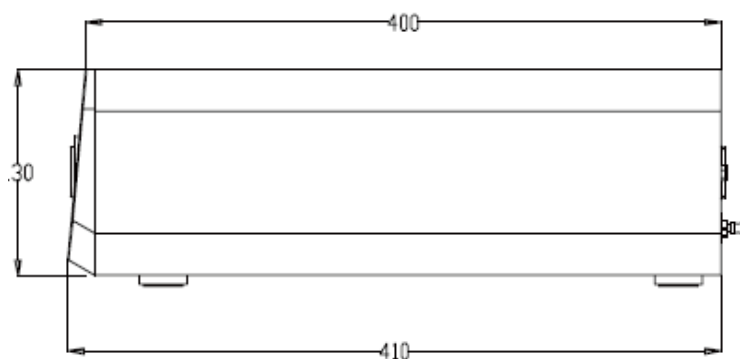
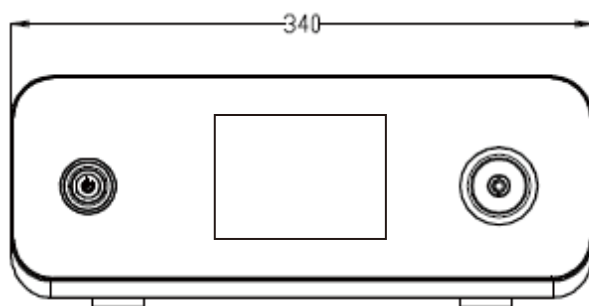
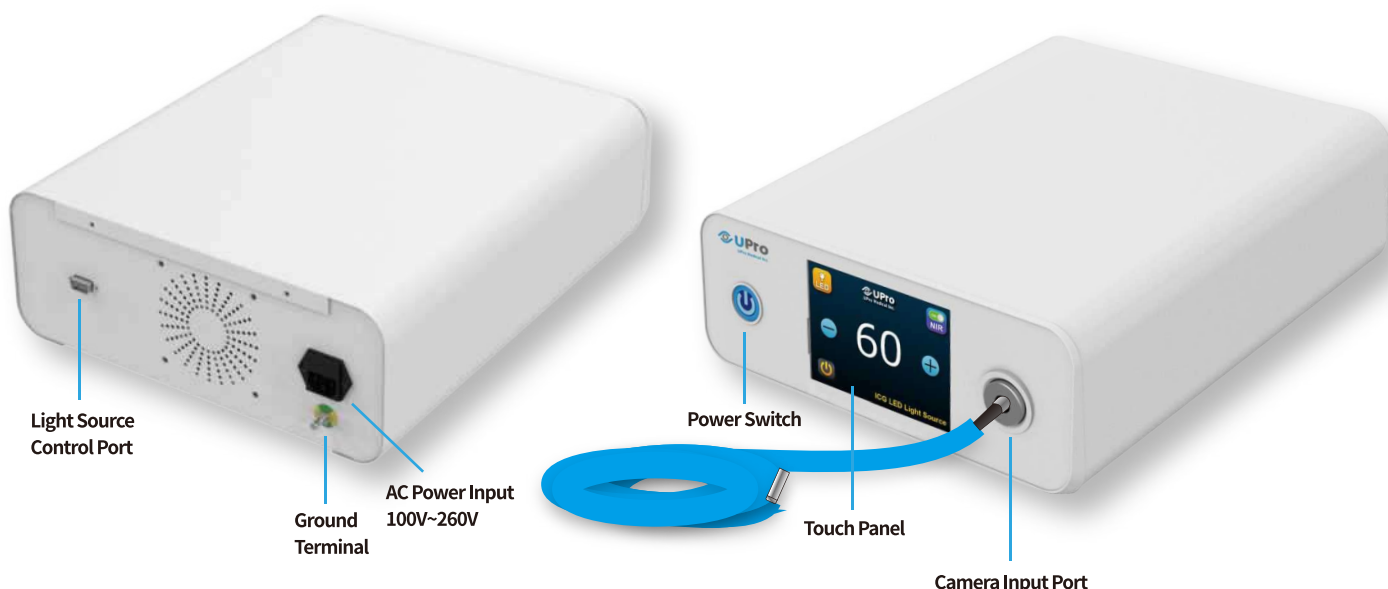
60,000
HR

Service Life Not Less Than 60,000 Hours or 5 Years



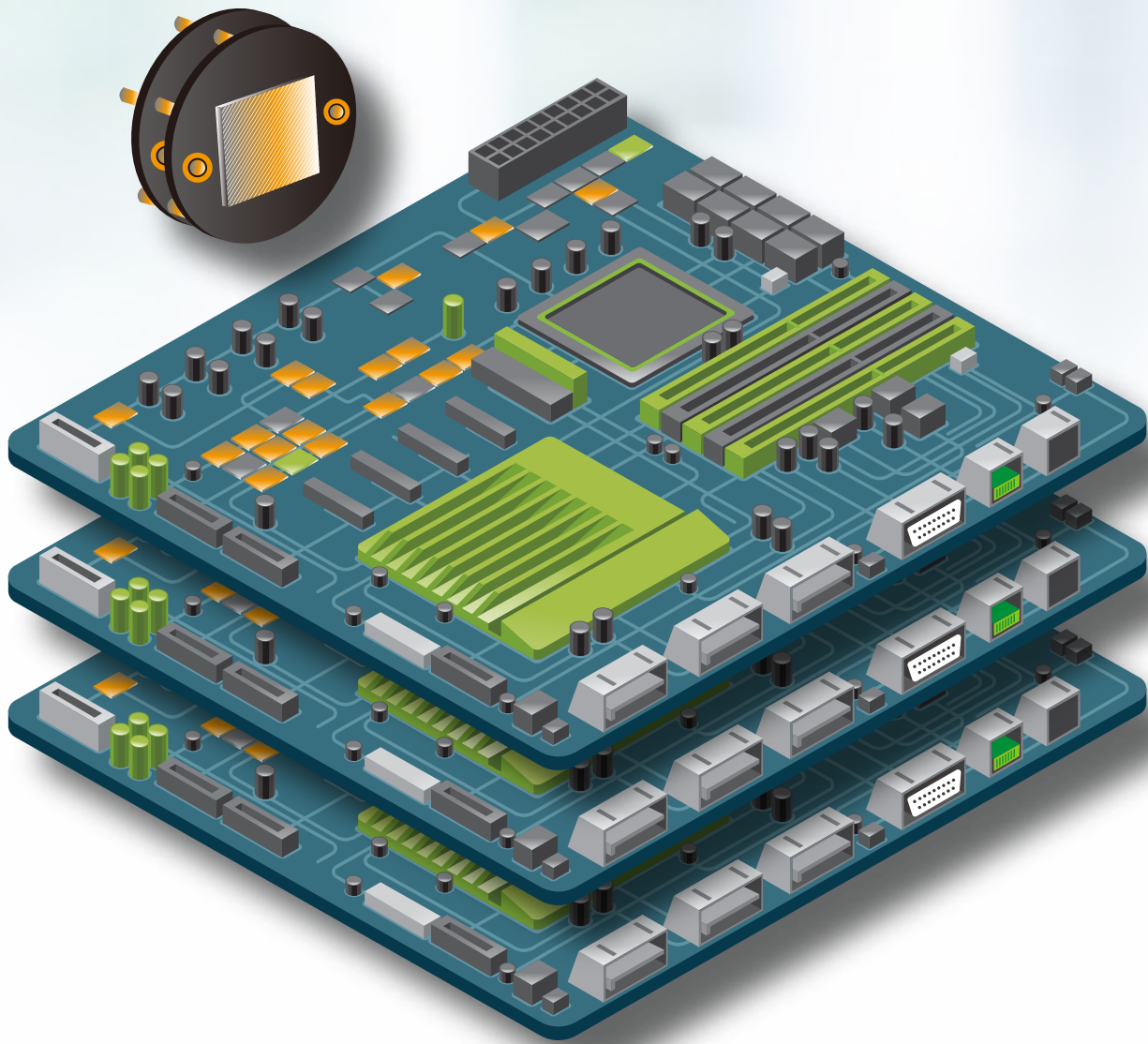
Touch Panel Control

Welcome OEM/ODM products

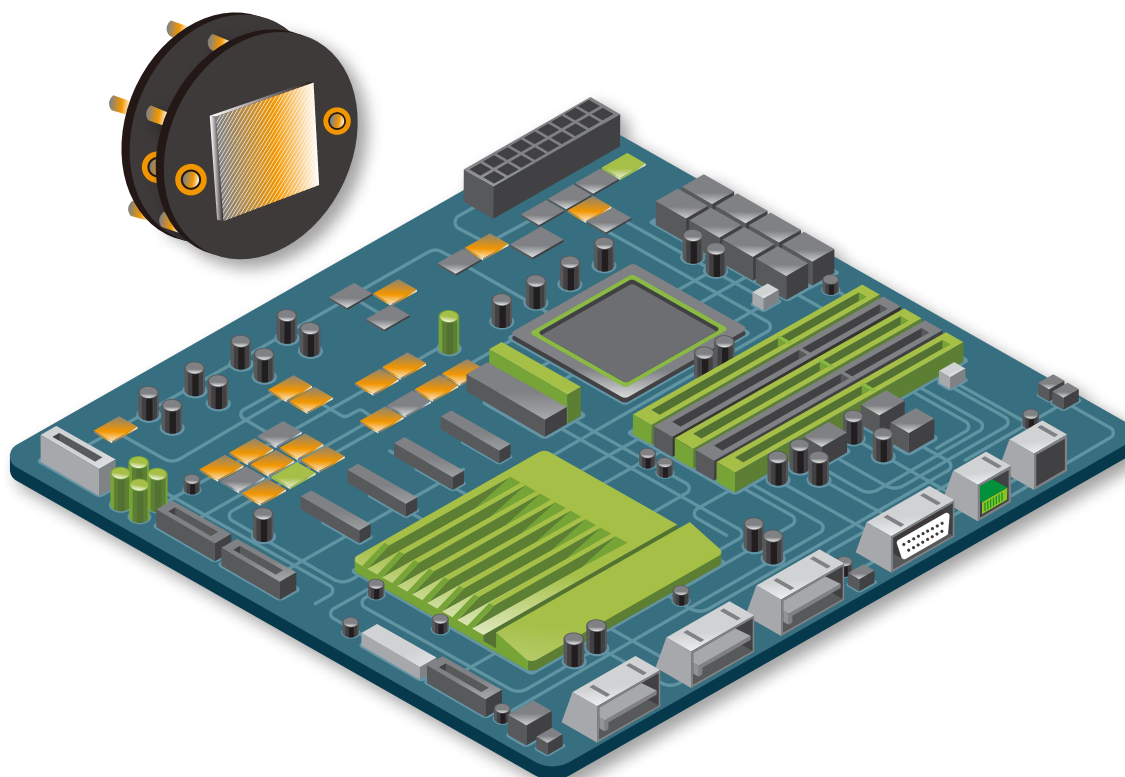


Model	UPE-WLS1	UPE-NLS1
Name	LED Light Source	ICG/NIR Light Source
Light Source	LED Light Emitting Sensor	
Color rendering index	Ra≥70	
Light Uniformity	0.7	
Service Life	Not less than 60,000 hours or 5 years	
Handle Button Function	Snapshot, Record, White LED mode, White Balance Control	Snapshot, Record, White light/ ICG Mode Switching, White Balance Control
LED Color Temperature	6,000K	
Lumens	2,000Lm	
Wave Range	380nm~810nm/Can meet white led illumination	380nm~810nm / Can meet white led and ICG blue & green lighting
Max Noise	Not more than 60dB (A)	
Power Supply	150VA	
Size	340 (W) *105mm (H) *400/410 (D)	

MEDICAL CUSTOMIZED MODULE



CUSTOMIZED MODULE



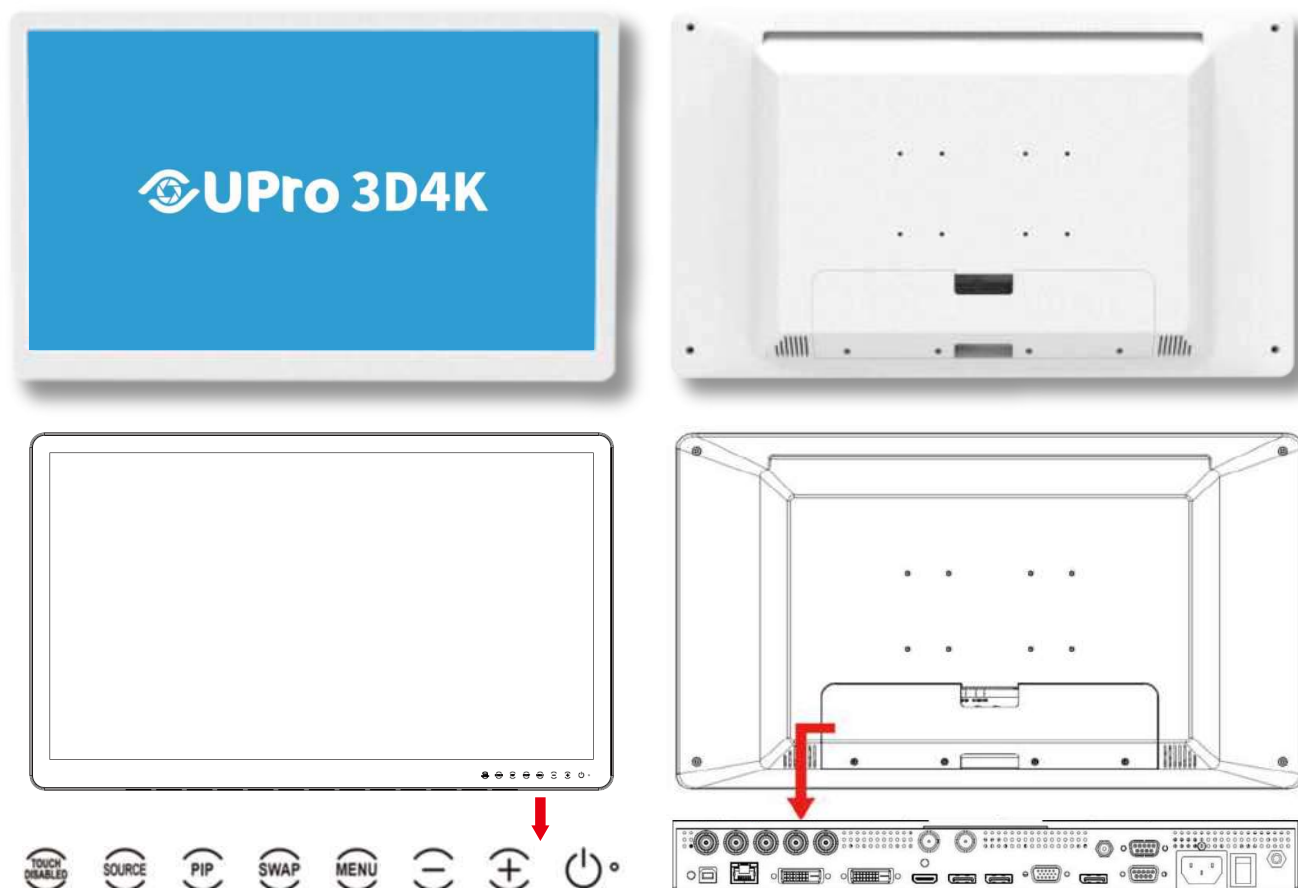
Welcome OEM/ODM products

Name		1080P@60fps Customized Module	4K@Scaler 60fps Customized Module	4K@60fps Customized Module
Image	Live Resolution	1920*1080P @60fps	4096*2160P @Scaler 60fps 3840*2160P @Scaler 60fps 1920*1080P @60fps	4096*2160P @60fps 3840*2160P @60fps 1920*1080P @60fps
	Sensor	Sony 1/2.8"	Sony 1/2.5"	Sony 1/2.8"
	Photo Resolution	1920*1080P	3840*2160P	
	Record Resolution	1920*1080P @60fps	3840*2160P @30fps	3840*2160P @60fps
Hardware	Output Interface	HDMI_Out1、HDMI_Out2、DVI_Out、DI/DO、D-Sub_Out		
	Input Interface	USB2.0_In、S-Sub_In		
Video & Photo	USB Storage Device	Support snapshot & record, maximum 512G		
	Video Format	30—120min / MP4		
	Compression Format	H.265/H.264		
	Photo Format	JPG		
General	Power Supply	220V±22V, 50Hz±5Hz		

CUSTOMIZED MODULE

3D4K MEDICAL MONITOR

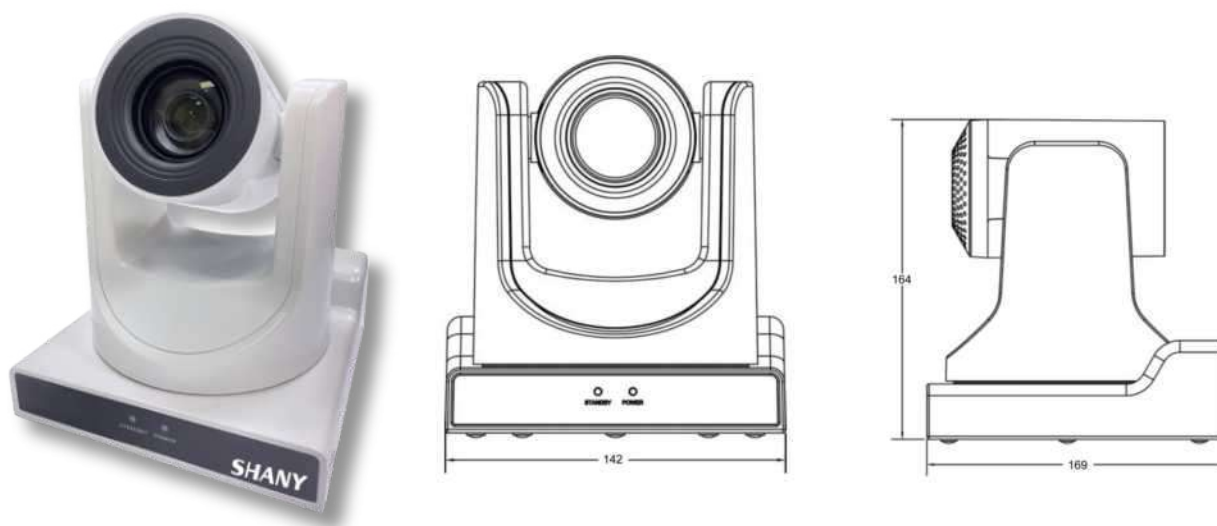




Name			SLD-324K3D
LCD Panel	technical	TFT active matrix (AM) liquid-crystal panel (LCD); LED backlight	
	Active display area	32 inch (Diagonal); 708.48 mm (H) x 398.52 mm (V)	
	Aspect Ratib(H;V)	16:9	
	Resolution	3840 x 2160	
	Pixel pitch	0.1845 mm x 0.1845 mm	
	Color Depth	1.07G colors (True 10-bits)	
	Color gamut	Native: 100% Adobe, 98% DCI-P3; Calibrated: BT.709, BT.2020	
	View angle	178° Hor / 178° Ver	
	Luminance	Native: 850 cd/m2 (maximum); After AR glass: 600 cd/m² (typical)	
	Contrast	1500:1 (typical)	
	Response time	20 ms (Tr + Tf), typical	
	Color tempreature	Native: 6500K; Calibrated: 9300K, 5800K	
	Gamma	Native, 1.8, 2.0, 2.2, 2.4, DICOM, HDR	
	Surface Treatment	AR+AS coating with True Flat Front (Glass: 2.8 mm)	
	Transparency	≥ 93% (Anti-Reflective)	
3D Parameters	Anti-Sludge	> 95(angle)	
	Technology	Projective Capacitive Touch	
	resolution	UHD 3840x2160, FHD 1920x1080, HD 1080x720	
	3D viewing distance	700 mm (A: minimum), 1500 mm (C: optimal);	
	Vertical view angle	33° up/down (crosstalk <7%) at optimal viewing distance	
Environment	Lens type	Circular polarization: Right eye on top	
	Video latency	10 ms typical (standard 50/60Hz FHD or 4K signal without PIP or rotation)	
Power	Environment Operating	Ambient temperature: 0°C to 40°C (32°F to 104°F) Relative humidity: 10% to 90% R.H. (Non-condensing) Atmospheric pressure: 500hPa to 1,060hPa	
	Power Supply	AC 100-240 V, 1.86-0.83 A, 50-60 Hz	
Mechanical Specification	Power consumption	On: < 150 W; Stand-by: < 40 W	
	Dimension	764.2 mm x 468.6 mm x 79 mm (w/o stand)	
	Weight	Approx. 13.2 kg (w/o stand)	

4K 20X PROFESSIONAL PTZ CAMERA





- 4K Ultra Resolution Output
- 60°Wide Angle Zoom-in Lens
+ 20X Optical Zoom Lens
- Support USB3.0 and BYOM Service
- Support POE power and Built-in G-SENSOR
- HDMI, SDI, IP, USB Multi Video Outputs
- Remote Control



SVC-4KZ20i		
LENS	Lens Video Output	4K(3840x2160P)@60/59.94/50/30/29.97/25fps, / 1080P@60/59.94/50/30/29.97/25fps, / 1080I@60/59.94/50fps, 1/1.8", CMOS, Effective Pixels :8.51M
	Sensor	20x Zoom Lens, Focus f=6.7mm ~ 125mm, F1.58 ~ F3.95; Horizontal View :60°~3.5°, Vertical View :35.7° ~ 2.0°
	Lens	≥55dB, 0.5Lux @ (F1.8, AGC ON)
	S/N Ratio and Minimum Lux	Auto Focus , White Balance (Auto, Indoor, Outdoor, One Push, Manual) , BLC, 2D&3D DNR (Digital Noise Reduction)
	Advanced Video Processing	Horizontal: ±170°, Speed: 1.7° ~ 100°/Sec / Vertical: -30° ~ +90°, Speed: 1.7° ~ 69.9°/Sec / Auto Vertical Flip (Built-in G-Sensor)
	PTZ Degrees & Speed	255, 0.1°
	Preset Points & Precision	VISCA/Pelco-D/Pelco-P(RS-232/RS-485), VISCA over IP(RJ-45), ONVIF(RJ-45), UVC(USB)
	Camera Control Protocol	
USB FUNCTION	Operating System	Windows 7 (1080P or less resolution), Windows 8.1, Windows 10 or above / Mac OS 10.10 or above Google Chromebook 29.0.1547.70 Ver. Or above Linux
	Coding/Compressing	YUY2(Support up to 1080@30fps) / H.264(AVC/SVC) / MJPEG / H.265(Support up to 2160@60fps)
	USB UVC Protocol	UVC 1.5, PTZ Control.
IP Camera	Video Compressing	H.265 / H.264 / MJPEG
	Video Streaming	32Kbps ~ 20480Kbps, Variable Rate / Fixed Rate
	Audio Format & Rate	AAC, 48/64/96/128Kbps
	Network Protocol	TCP/IP, HTTP, RTSP, RTMP, ONVIF, Multicast, NDI (Option)
Interface	Video Out	1xHDMI (2.0 Ver.), 1x3G-SDI (BNC Type)
	Audio Output Rate	32Kbps ~ 20480Kbps, Variable Rate/Fixed Rate
	Network	1x Ethernet (10M/100M/1000M); POE; NDI (Option)
	USB	1xUSB 3.0(Type C)
	Control I/O	1xRS232 In (8pin Mini DIN), 1xRS232 Output (8pin Mini DIN), 1xRS485(2pin Phoenix Port)
	Power Connector	JEITA Type (DC IN 12V)
Normal	Input Power	DC 12V / POE(802.3af)
	Power Consumption	12W (Max)
	Temp	Operating: -10°C ~ 40°C / Storage: -40°C ~ 60°C
	Dimensions (WxDxH)	142mm x 169mm x164mm
	Weight	1.35Kg

LAPAROSCOPIC TRAINER





Pelvic Model



Fixed-Point Suture Model



3D Suture Model



Clipping Model



Bowel Model



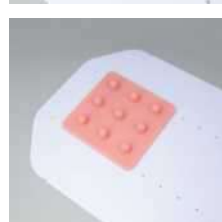
Bead Model



Ligation Model



Handling Model



Peel Off model



Threading Model

ARTHROSCOPY TRAINER





ARTHROSCOPY TRAINER



Practice view for camera



A model of the knee joint



Flexible and fixed



Metal Plate base



0° or 30° Arthroscope Camera

- 1280x720
- 5mm OD / 175mm length
- USB Type C/A
- Adjustable focus With 8 LED Lights
- No distortion
- WIN MAC ANDROID 8.0 compatible



11-inch monitor

- USB connection

MEDICAL CART ENDOSCOPY TROLLEY





The Distance and Height of Each Shelf Can Be Adjusted Freely



Bottom Drawer with Power Socket



Applicable to Medical Endoscopic Instruments,
Various Instruments and Equipment for surgery, etc.

Model	UEC-104
Name	Eendoscopy Trolley
Cart Size	570mm (W) x 1,100mm (H) x 630mm (D)
Net Weight	45kg
Number of shelves	4 Shelves
Shelf Size	400mm (W) x430mm (D)
Load Capacity	20kg / Shelf



UPro Website

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