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UX1 Series

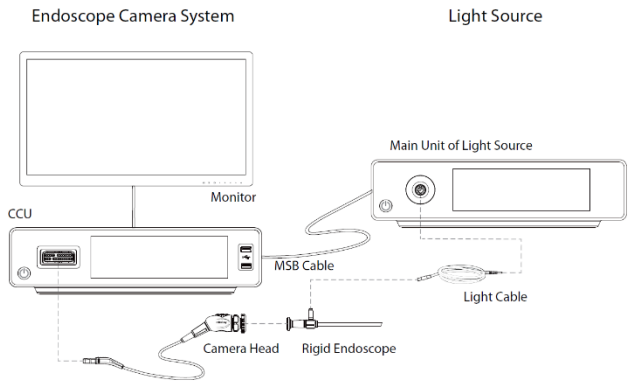
Endoscope Camera System

Vision Beyond Imagination



The equipment adopts modular design, can be connected with endoscopes, light sources and monitors to provide real-time white images for intraoperative. The connection is shown as below:

Endoscope Camera System——UX1 Series



Dimension 380mm x 350mm x 80mm
Weight(CCU) ⩽10 kg
Weight(White light Camera head) ⩽190 g (excluding the cable)
Resolution 3840*2160 or 4096*2160 pixels
Image Sensor 1-chip 4K CMOS
Scan Mode Progressive
Refresh Rate 50/60 Hz
Signal Output 12G-SDI x1, HDMI x 2, DVI x 1,3G-SDI x 1
Data Management Full HD Recording with Built-in USB Storage Flash Disk(up to 6TB)
Protection Against Moisture Camera head IPX7
Protection Against Electric shock Class I DEFIBRILLATION-PROOF Type CF

Differences Among Models

Model	Color Style				Color Enhancement	Homogenous Brightness	Tone Enhancement	
	Standard	Bright	Gentle	Vivid			Single Screen	Split Screen
UX1	√	√	√	√	×	×	√	×
UX1 -TEC	√	√	√	×	×	×	√	×
UX1 -SIM	√	√	×	×	×	×	√	×
UX1 - NOR	√	×	×	×	×	×	√	×

Standard: The saturation level and red-blue hues are set to the default values.
Bright: The saturation level is higher than the default value of Standard, and the red-blue hues remain unchanged.
Gentle: The saturation level is lower than the default value of Standard, and the red-blue hues remain unchanged.
Vivid: The saturation level and blue hue remain unchanged, and the red hue is higher than the default value of Standard.
Color Enhancement: improves color differentiation. Homogenous **Brightness**: enhances the brightness of dark areas. Tone **Enhancement**: improves the contrast between red and other colors in an image.

Endoscope Light Source——HB100 Series

Dimension 380mm x 350mm x 80mm
Weight ⩽10Kg
Lamp High Brightness White LED
Power consumption 260VA
Lamp Life Over 60,000h
Color Temperature 3000-7000K
Protection Against Electric Shock Class I, Type CF
Intensity ≥3000000Lux (max center)
Noise ≤55dB
Color rendering index ⩾90, in the white light mode

55"/32" 2D Monitor

LCD Size 55/32 inch
Weight 11.8±0.5Kg(32 inch)
38.5±2.0Kg(55 inch)
Resolution 3840 * 2160 pixels
Contrast Ratio 1500 : 1 (32 inch)
1200 : 1 (55 inch)
Refresh Rate 50/60 Hz
Backlight Brightness 850 cd/㎡(32" Monitor)
800 cd/㎡(55" Monitor)
Input Signal HDMI,12G-SDI,DVI, 3G-SDI
Max Viewing Angel 178°
Loop Out Yes
Picture in Picture Yes

Insufflator

Model	HS-50F	HS-50H	HS-50V	HS-50S	HS-30S
Flow Rate	0.1-50L/min	0.1-50L/min	0.1-50L/min	0.1-50L/min	0.1-30L/min
Heating	√	√	×	×	×
Smoke Evacuation	√	×	√	×	×
Modes	5	5	5	5	5
Touch Screen	√	√	√	√	√

Dimension 380mm x 350mm x 141mm
Weight 10.0Kg
Pressure Range 1 - 30mmHg
Modes Bariatric, Adult, Pediatric, Retroperitoneum, Customize
Heating function(HS-50F/HS-50H) Yes, Temperature ≤41℃
Display 7 inch color touch screen
Protection against harmful ingress of water or particulate matter Foot pedal IPX8
The insufflator is an ordinary-type device (sealed device that does not protect from liquid inlet)
Protection against electric shock Type CF
Method of sterilization By other methods validated and described by the manufacturer

Laparoscope

Model	Field of View	Direction of View	Working Length	Max. Width of Insertion Portion
M 01000A M 01000PA	80° ±15%	0°±10°	321mm ±3%	Φ10mm
M 01030A/ M 01030PA	80°±15%	30°±10°	321mm ±3%	Φ10mm
M 00530A M 00530PA	85°±15%	30°±10°	300mm ±3%	Φ5.45mm
M 00500A M 00500PA	85°±15%	0°±10°	300mm ±3%	Φ5.45mm

M 10530A M 10530PA	85°±15%	30°±10°	450mm ±3%	Φ5.45mm
M 10500A M 10500PA	85°±15%	0°±10°	450mm ±3%	Φ5.45mm

Digital Video Recorder

Front LCD Monitor		7-inch Touch Display
Data Storage	**Internal Media**	HDD 2TB
	External Media*	USB HDD* / SDD* / Flash Memory* / DVD* / Blu-ray™ Disc*
Video Resolution		4K / 4096 x 2160p, UHD / 3840 ×2160, Full HD / 1920x1080p, 720p
Frame Rate		60Hz, 30Hz
Multi-input mode		Dual-channel, 3D
3D mode		Line by Line, Side by Side
Recording Format		Side by Side, Top and Bottom
Video& Audio	**Compression**	H.264, H.265-HEVC, AAC
	File	MP4, TS
Photo	**Compression**	JPEG, PNG, Uncompressed
	File	JPG, PNG, TIFF
Video Input		HDMI 2.0 Type A x (2)
Video Output	**HDMI 2.0**	Type A x (1)
	DP	Display Port* x (1)
Audio Input		MIC (3.5mm stereo mini jack), HDMI
Audio Output		Line (3.5mm stereo mini jack)
USB Ports	**Front**	USB3.2 Type A x (2) for Recording
	Rear	USB3.2 Type A x (4) for Accessories
LAN		RJ-45 (1000BASE-T/100BASE)
External Trigger		3.5mm Stereo Mini Jack x (2)
Power supply		AC 100V - 230V, 50/60Hz
Dimensions (WxHxD)		Approx. 239 x 137.0 (132.3) x 245 mm / 9.4 x 5
Weight		Approx. 4.3kg / 9.5 lbs.
Environments	**Operating temp.**	5°C to 40°C / 41°F to 104°F
	Operating humidity	30 to 80% RH (no condensation)
	Storage temp	–10°C to 60°C / 14°F to 140°F
Certifications / Compliance		ANSI/AAMI ES60601-1, CAN/CSA-C22.2 NO.60601, CE MDR, IEC60601-1, EN60601-1, EN60601-1-2, FCC Class A, FDA Class 1, RoHS
Accessories		Power cable x3(China, US, EU), HDMI cable x2, IFU x2(CN, EN), QC PASS card, x2(CN, EN), Warranty card , Cable clamp

Mobile Trolley

Model	32-Inch Monitor Stand (Without Pan/Tilt Functions)	32-Inch Monitor Stand (With Pan/Tilt Functions*)	55-Inch Monitor Stand
TV-300	√	√	×
TV-300T (200V)	√	√	×
TV-300T (110V)	√	√	×
TV-500	×	√	√
TV-500T (200V)	×	√	√
TV-500T (110V)	×	√	√
*: The monitor stand provides up to 20° tilting movement and 75° panning movement.			

Mobile trolley Dimension 665mm x 1210mm x 1800mm
Shelf Dimension 424mm x 424mm
Drawer Dimension 323 mm x 295mm x 75mm
Rear door Dimension 55.5mm x 518mm x 930mm
Weight of the Mobile Trolley ≤100 kg(excluding the optional modules)
Monitor arm Load capacity ≤27-inch monitor, ≤8 kg
Shelf Load capacity ≤20kg
Monitor stand Load capacity 50kg(55-inch)
15kg(32-inch)
CO2 holder assembly Load capacity ≤18kg
Total load capacity Load capacity ≤160kg

Isolation Transformer Specifications

TV-300T(110V)/ TV-500T(110V)	Input voltage	110-120 VAC (±10%)
	Frequency	50-60 Hz (±3 Hz)
	Input power	1100 VA
	Output power	1000 VA
TV-300T(220V)/ TV-500T(220V)	Input voltage	220-240 VAC (±10%)
	Frequency	50-60 Hz (±3 Hz)
	Input power	2000 VA
	Output power	1800 VA

Some of functions marked with an asterisk may not be available. Please contact your local Mindray sales representative for the most current information

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P/N:ENG- UX1 Series Camera System Datasheet -**210285X2P-20241010**
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