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Presenting subtlety

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**Medical Endoscopic Camera System
& cold light source**

Shantou Easywell Electronic Technologies Co., Ltd



ALL IN ONE UHD IMAGE SYSTEM FOR ENDOSCOPE

3-IN-1

Model: E43

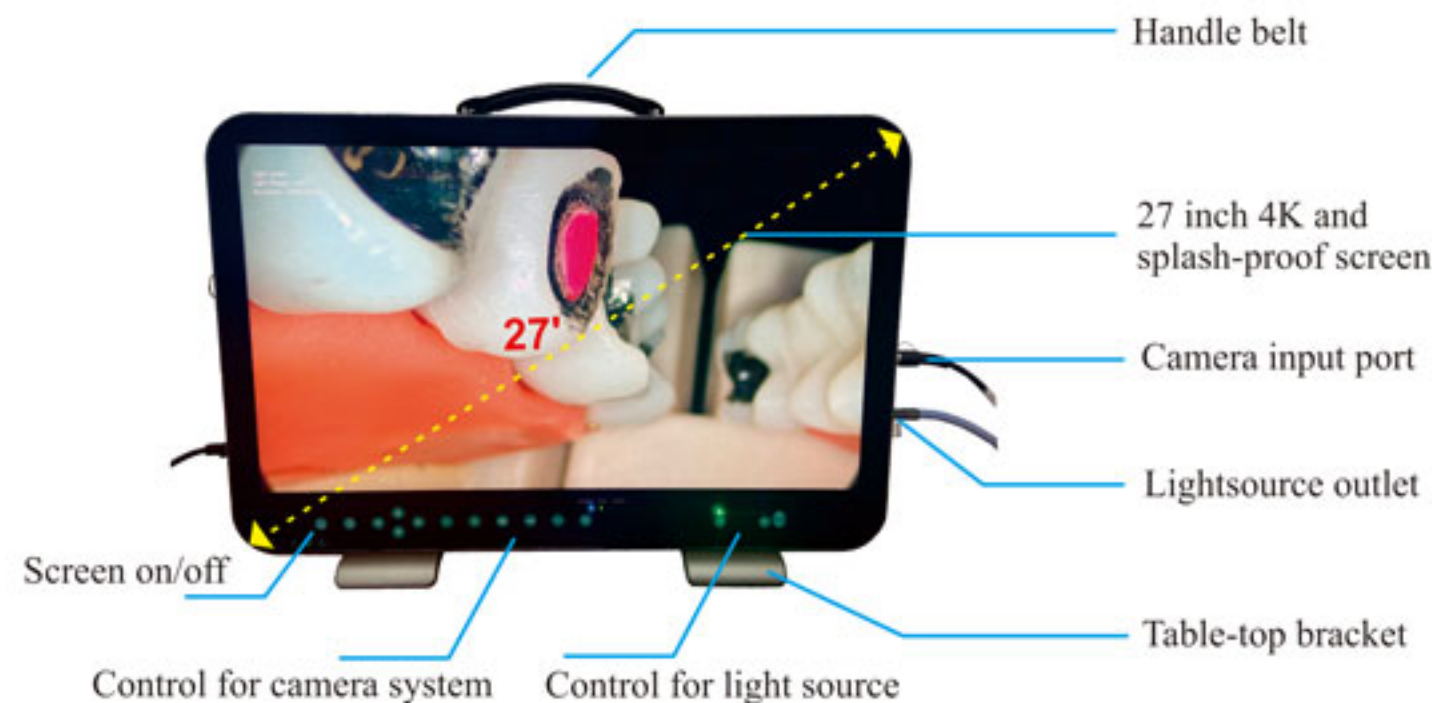
27 inch 4K Display Screen



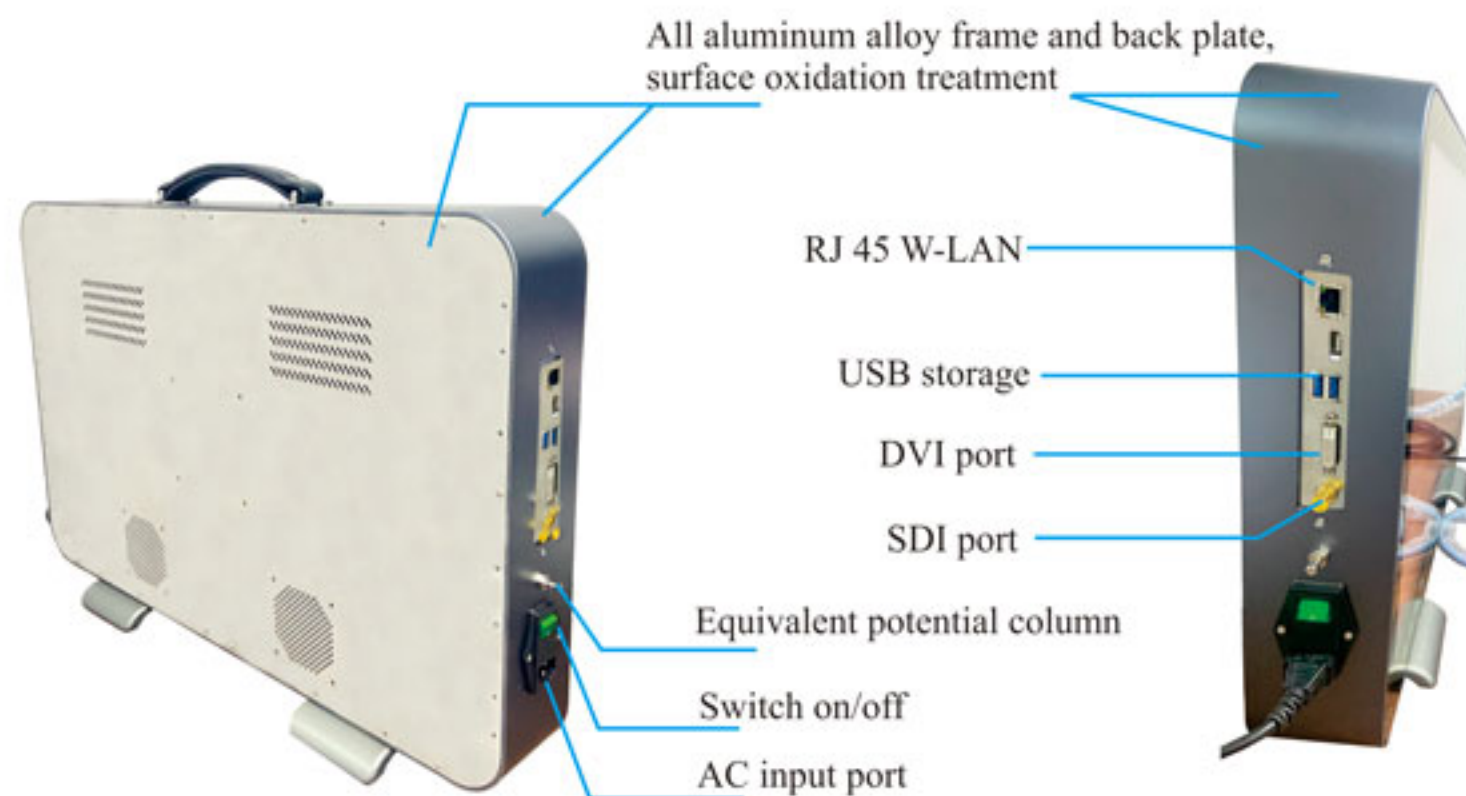
ALL IN ONE UHD IMAGE SYSTEM FOR ENDOSCOPE

3-IN-1

Model: E43



Models	E43	27 inch 4K and splash-proof screen 27inch 4K	
Image sensor	1/1.8" 1/1.2" COMS	Control systems	Light-touch control for camera and light source
Resolution	3840x2160p	Storage	U disk or throught W-LAN
Color	3500k/6500k/7500k	C type coupler style	F=25mm standard, F=18mm, F=18-35mm option
Replay	Video and Picture	Photograph	8 megapixel JPG
Recording	3840x2160p	Video signal output	SDI, HDMI, USB 3.0,DVI,RJ45
Life span of LED	50,000Hours	Color Temperature	5700-7000K
Color rendering index	>90	Illumination Intensity:	> 2,000,000 Lux
Product size mm	Width 65mm x Height 46mm x Thickness 9mm	Net Weight kgs	13kgs

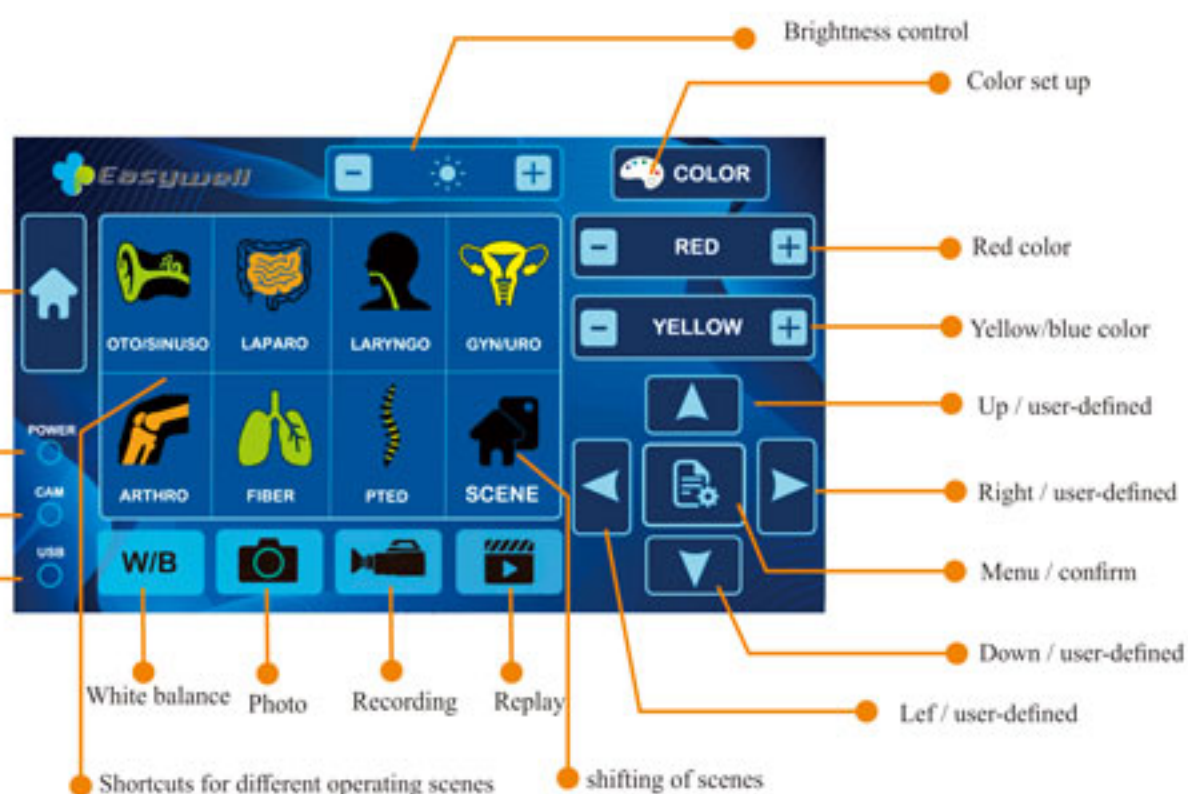


UHD IMAGING SYSTEM FOR (MEDICAL)ENDOSCOPE 4K



Model: E40A

7 inch touch screen



The resolution of 4K Endoscopy camera is 3840 x 2160P it can present doctors with more excellent endoscopic images, and the ultra-high processing chip realized rich color gamut. FPGA image processing algorithms can achieve stronger noise reduction, sharpening, brightness, contrast and extinction functions, and better meet the needs of doctors in the diagnosis of complex surgical treatment. 4K ultra image processing chip technology.

UHD IMAGING SYSTEM FOR (MEDICAL)ENDOSCOPE 4K



7 inch touch screen with extra display



Model: E40B



Models	E40A / E40B		
Image sensor	1/1.8" 1/1.2" COMS	Touch Screen	7 inch, E40B(display function)
Resolution	3840x2160p	Storage	U disk or through W-LAN
Color	3500k/6500k/7500k	C type coupler style	F=32mm standard F=18mm,F=20-35mm option
Replay	Video and Picture	Photograph	8 megapixel JPG
Recording	3840x2160p	Video signal output	SDI, HDMI, USB 3.0,DVI,RJ45
Product size mm	Width 38mm x Height 12mm x Length 32mm	Net Weight kgs	5.2kgs

UHD IMAGING SYSTEM WITH LIGHT SOURCE FOR (MEDICAL)ENDOSCOPE 4K

2-IN-1



Model: E42A

7 inch touch screen



The resolution of 4K Endoscopy camera is 3840 x 2160, it can present doctors with more excellent endoscopic images, and the ultra-high processing chip realized rich color gamut. FPGA image processing algorithms can achieve stronger noise reduction, sharpening, brightness, contrast and extinction functions, and better meet the needs of doctors in the diagnosis of complex surgical treatment. 4K ultra image processing chip technology. 40000 hours long working life of 80W light source. 32inch 4K Ultra HD Multi-display allows doctor and nurse to see the real time operation live.

Models	E42A / E42B		
Image sensor	1/1.8" 1/1.2" COMS	Touch Screen	7 inch, E42B(display function)
Resolution	3840x2160p	Storage	U disk or throught W-LAN
Color	3500k/6500k/7500k	C type coupler stypole	F=25mm standard, F=18mm, F=18-35mm option
Replay	Video and Picture	Photograph	8 megapixel JPG
Recording	3840x2160p	Video signal output	SDI, HDMI, USB 3.0,DVI,RJ45
Life span of LED	50,000Hours	Color Temperature	5700-7000K
Color rendering index	>90	Illumination Intensity:	> 2,000,000 Lux

UHD IMAGING SYSTEM WITH LIGHT SOURCE FOR (MEDICAL)ENDOSCOPE 4K

2-IN-1



Model: E42B

7 inch touch screen with extral display



Whether endoscopy or other imaging systems – the best visualization technology is only as good as the screen that it is displayed on. The high-resolution flat-screens (32", 43" and 55") meet the most demanding requirements in the OR. The monitors are splash-proof and offer an OSD (On-Screen Display) menu

4K

sensor:1/1.8 Original imported sensor parts,Ultra high resolution≥(3840*2160)



7" touch LCD screen, wear-resistant, scratch resistant, fastness, quick-witted,display.

AWB

Full intelligent automatic white balance with one click, Strong light suppression, enhanced permeability, deviation correction, etc

EMC

Solving electromagnetic interference of energy platform during operation



Camera head waterproof IP68: to prevent water from entering the camera head during the surgery.



network on-demand real-time image capture, photography, recording, video editing, etc., and cloud one click sharing of clinical images and videos



1080P
FULL HD

ALL IN ONE FHD IMAGE SYSTEM FOR ENDOSCOPE

3-IN-1

Model: E33

27 inch 4K Display Screen



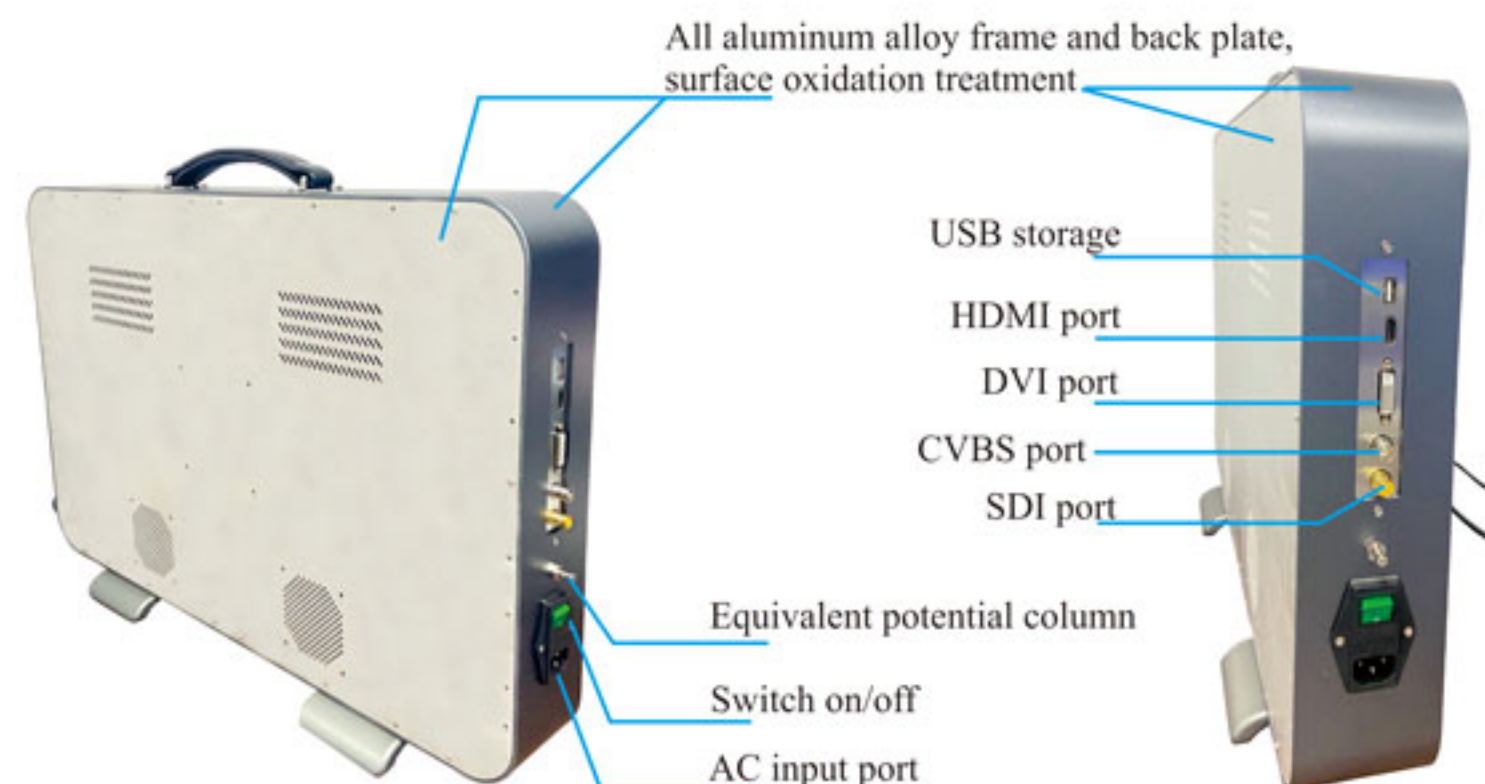
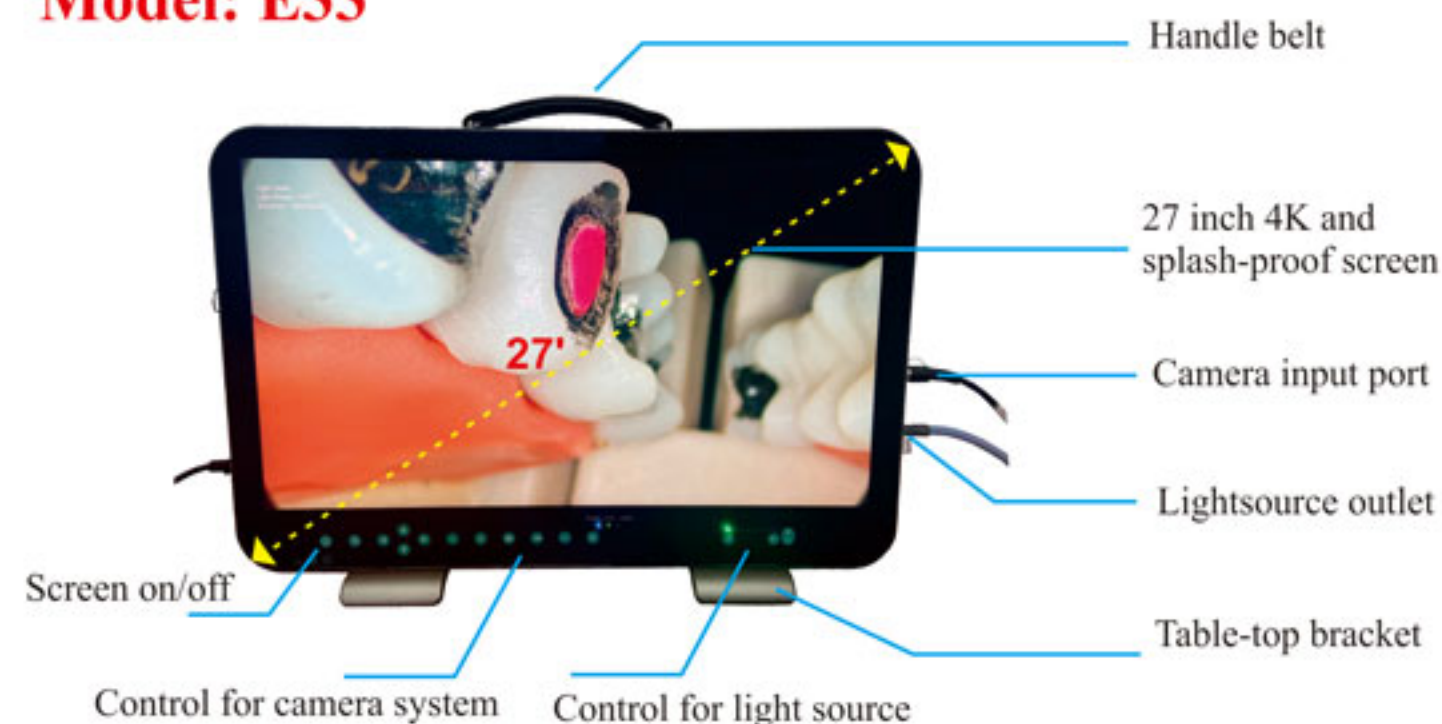
Models	E33	27 inch 4K and splash-proof screen 27inch 4K	
Image sensor	1/2.8" 1/1.8" COMS	Control System	Light-touch control for camera and light source
Resolution	1920x1080p	Storage	U disk or Hard disk
Color	3500k/6500k/7500k	C type coupler style	F=25mm standard ,F=18mm, F=18-35mm option
Replay	Video and Picture	Photograph	2 megapixel JPG
Recording	1920x1080p	Video signal output	HD-SDI HDMI, USB,DVI,CVBS
Life span of LED	50,000Hours	Color Temperature	5700-7000K
Color rendering index	>90	Illumination Intensity:	> 2,000,000 Lux
Product size mm	Width 65mm x Height 46mm x Thickness 9mm	Net Weight kgs	13kgs

1080P
FULL HD

ALL IN ONE FHD IMAGE SYSTEM FOR ENDOSCOPE

3-IN-1

Model: E33

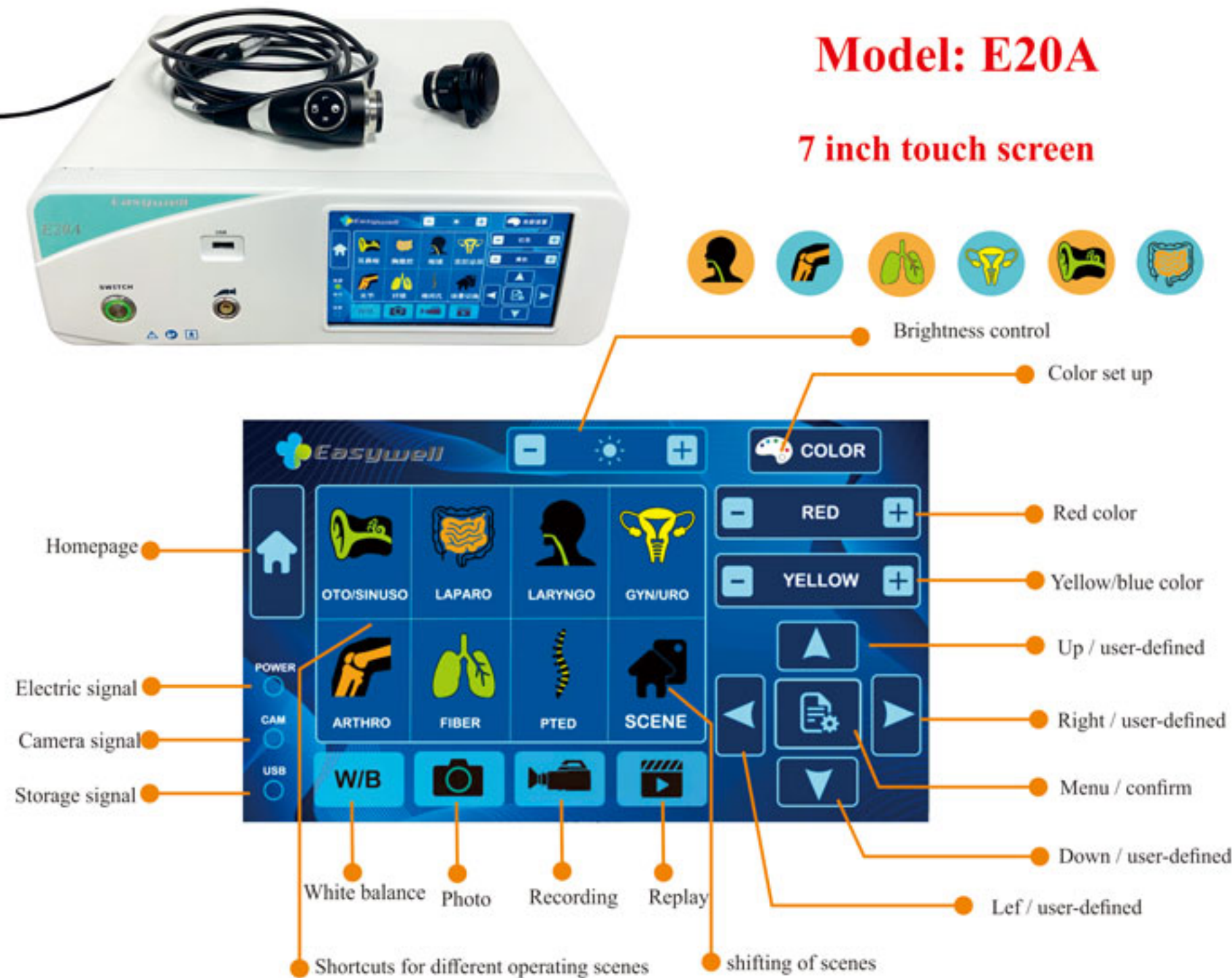


1080P
FULL HD

FHD IMAGING SYSTEM FOR (MEDICAL)ENDOSCOPE

Model: E20A

7 inch touch screen



1080P
FULL HD

FHD IMAGING SYSTEM FOR (MEDICAL)ENDOSCOPE

Model: E20B

7 inch touch screen with extra display



Models	E20A / E20B		
Image sensor	1/2.8" 1/1.8" COMS	Touch Screen	7 inch, E20B(display function)
Resolution	1920x1080p	Storage	U disk or Hard disk
Color	3500k/6500k/7500k	C type coupler style	F=25mm standard ,F=18mm, F=18-35mm option
Replay	Video and Picture	Photograph	2 megapixel JPG
Recording	1920x1080p	Video signal output	HD-SDI, HDMI, USB,DVI,CVBS
Product size mm	Width 38mm x Height 12mm x Length 32mm	Net Weight kgs	5.2 kgs

Endoscopic visualization for minimally-invasive diagnostics and surgical applications.



1080P
FULL HD

FHD IMAGING SYSTEM WITH LIGHT SOURCE 2-IN-1 FOR (MEDICAL) ENDOSCOPE

Model: E22A

7 inch touch screen



Main Features

1. Sony CMOS FHD Camera
2. Built-in LED Cold Light Source
3. Additional HD Medical Monitor can be connected via HDMI video output
4. Recording function can be achieved
5. Built-In USB Recording and Storage
6. Suggest to be used for all rigid endoscopes, such as rigid (ENT) otoscope, laryngoscope, sinoscope, laparoscope, hysteroscope, cystoscope, arthroscope, spine endoscope etc. This model will have a good surgery performance.

Models	E22A / E22B		
Image sensor	1/2.8" 1/1.8" COMS	Touch Screen	7 inch, E22B(display function)
Resolution	1920x1080p	Storage	U disk or Hard disk
Color	3500k/6500k/7500k	C type coupler style	F=25mm standard ,F=18mm, F=18-35mm option
Replay	Video and Picture	Photograph	2 megapixel JPG
Recording	1920x1080p	Video signal output	HD-SDI, HDMI, USB,DVI,CVBS
Life span of LED	50,000Hours	Color Temperature	5700-7000K
Color rendering index	>90	Illumination Intensity:	> 2,000,000 Lux
Product size mm	Width 38mm x Height 12mm x Length 32mm	Net Weight kgs	5.8kgs

1080P
FULL HD

FHD IMAGING SYSTEM WITH LIGHT SOURCE 2-IN-1 FOR (MEDICAL) ENDOSCOPE

2-IN-1

Model: E22B



**7 inch touch screen
with extral display**



Endoscopic visualization for minimally-invasive diagnostics and surgical applications.

FHD

sensor:1/1.8 Original imported sensor parts,Full high resolution≥(1920*1080)

AWB

Full intelligent automatic white balance with one click, Strong light suppression, enhanced permeability, deviation correction, etc

EMC

Solving electromagnetic interference of energy platform during operation



Camera head waterproof IP68: to prevent water from entering the camera head during the surgery.



7" touch LCD screen, wear-resistant, scratch resistant, fastness, quick-witted,display.



Built-In USB Recording Users can record images and videos at the push of a button and export them directly to a USB flash drive





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Intelligent digital full HD 1200lines HD-1080P Effective pixels is 1920(H)*1080(V).

AWB
Full intelligent automatic white balance with one click



EMC
Solving electromagnetic interference of energy platform during operation

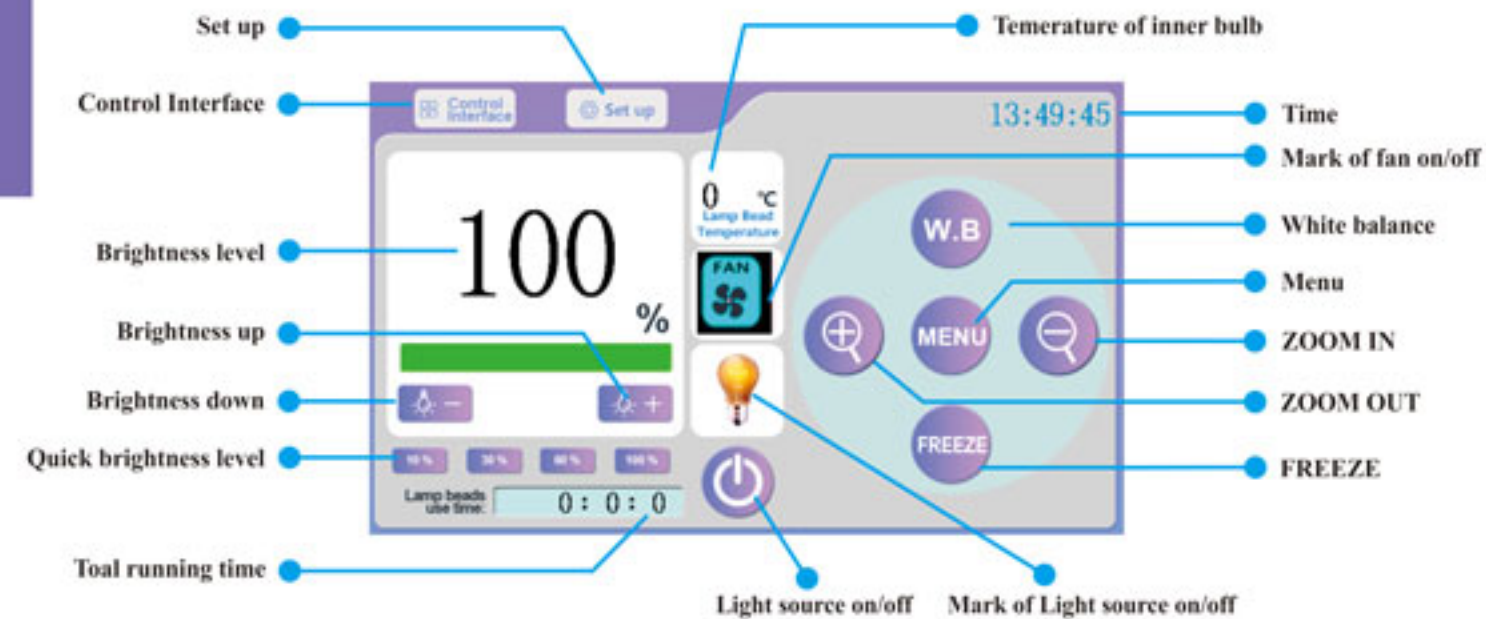
5" touch LCD screen, wear-resistant, scratch resistant, fastness, quick-witted.

Waterproof
Camera head waterproof: to prevent water from entering the camera head during the surgery.



Extinction speed
Extinction speed is fast, which can solve the operation delay of surgical images and reduce visual fatigue.

Medical Light Source & Camera System For Endoscope E12A



Models	E12A	2-IN-1	Models	SDI-M
Image sensor	1/2" 2.13M SONY	Life span of LED 50,000Hours	Size	22 inch standard
Resolution	1920x1080p	Color rendering index >90	Resolution	1920x1080p
SNR	≥50dB	Color Temperature 5700-7000K	Video input and output	SDI IN&OUT,AV IN&OUT,VGA,HD MI,BNC,AUDIO IN&OUT,
Optical zoom	30x	Illumination Intensity: > 2,000,000 Lux	option	4K 32inch
Digital zoom	12x	Brightness control 0-100% brightness adjustment(5 inch touch screen)	Models	HD-DVR
Auto focus	YES	Infrared cutoff 6 mW/lm (300nm 700nm)	Operating system	Linux Embedded System
Image freeze	YES	Illumination uniformity 0.95	Video input and output	SDI IN&OUT, HDMI
Video signal output	HD-SDI HDMI	Mechanical interface Φ10±0.1 mm	Storage	1. Max. 2TB of SATA interface
Size of products	338mm×380mm × 120mm	Adaptor Wolf(standard), Storz(option)		

KS- Series

LED Surgical Light & Sony Video Recording System



1. New cold light source extends service life:
2. Perfect cold light effect
3. Excellent shadowless effect
4. Excellent depth lighting
5. Advanced control system
6. universal suspension system
7. Exquisitely structured focusing system
8. Modern laminar flow lamp holder
9. Red function R9
10. Green mode R11

11. SONY's high-performance 1/2.8-inch Exmor R CMOS imager enables first-class full HD (1920) even in low light environments × 1080) Picture quality. The progressive scanning mode reduces the blurriness of the image and makes it smoother
12. High quality lenses have extremely high transmittance, a maximum aperture of F1.6, and an optical zoom range of 30 times.
13. Full HD external independent camera system (rotating arm external independent camera) and coaxial independent cantilever without shadow lamp

30

Years of Medical lights' experience

FULL HD Camera	Model:	CAM-FHD01
	Image sensor	1/2.8 inch Exmor CMOS SONY
	Effective pixel	2,380,000.00 Million pixel
	Resolution (video)	1080P@60FPS
	Exposure control	Auto, manual, priority mode (shutter priority & aperture priority), brightness, EV compensation, slow AE
	Backlight compensation	yes
	White balance control	Automatic, automatic tracking white balance, indoor, outdoor, automatic, sodium lamp (fixed / automatic / outdoor automatic), one button, manual
	Camera lens	30x optical zoom F = 4.3mm (wide-angle end) to 129.0mm (far end) F1.6 to F4.7
	Digital focus zoom	12x (360x with optical zoom)
	Focus system	Auto (sensitivity: normal, low), one button auto focus, manual, interval auto focus, auto focus triggered by zoom, focus compensation when ICR mode is on
	Video output	HD-SDI



Monitor SDI-M	Screen Size	22,24,27 inch LED screen
	Resolution	1920x1080p
	Display scale	16:9
	Display color	16.7M
	Visual angle	vertical/horizon 175°
	Input&output	SDI IN&OUT, AV IN&OUT, VGA, HDMI, BNC, AUDIO IN&OUT,
	Color system	PAL / NTSC / SECAM
	Power supply	12V, 50/60Hz



32inch 4K Splash-proof Mointor

Whether endoscopy or other imaging systems – the best visualization technology is only as good as the screen that it is displayed on. The high-resolution flat-screens 32" meet the most demanding requirements in the OR. The monitors are splash-proof and offer an **OSD (On-Screen Display)** menu