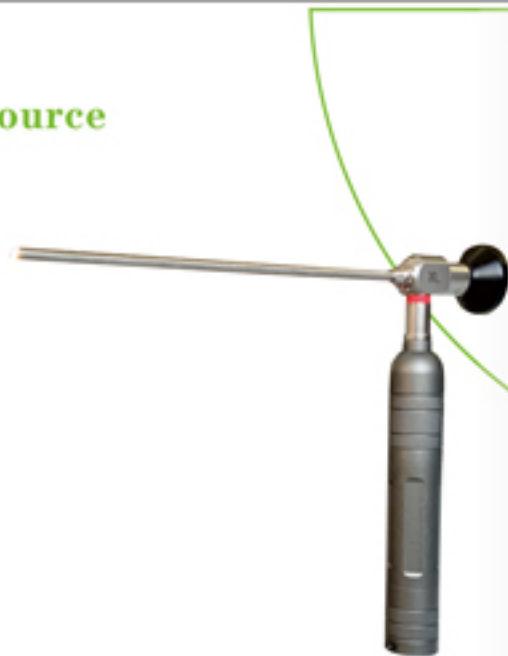


Medical Endoscope Light source & Endoscope Camera



SHANTOU
EASYWELL
MINSTON



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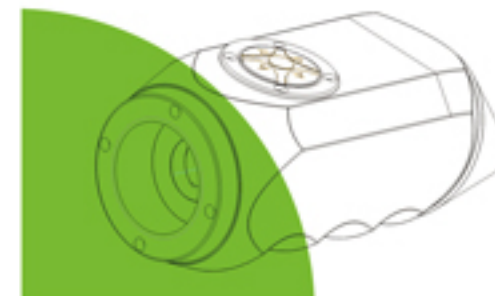
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ISO13485:2016



SHANTOU
EASYWELL
MINSTON



Medical
Endoscope
Lightsource
/Video Camera

KS Series



VISUALIZATION

VIDEO/OPTICS/LIGHT



Medical Full HD Endoscope Camera system and light source

KS-ELS300

Technical Data of KS-ELS300

Light source:	60W/120W/150W LED
Life span of LED	20,000Hours
Input power	100VA/200VA/300VA
Input Voltage	AC100-240V, 50/60Hz
Color rendering index	>90
Color Temperature	5700-7000K
Illumination Intensity:	> 2,000,000 Lux
Brightness control	0-100% brightness adjustment(5 inch touch screen)
Infrared cutoff	≤6 mW/lm (300nm~700nm)
Φ _{er} (630nm~660nm)/ Φ _{eg} (515nm~545nm)	0.9
Φ _{eb} (435nm~465nm)/ Φ _{eg} (515nm~545nm)	1.4
Illumination uniformity	0.95
Size of products	338mm×380mm ×120mm
Weight of product	5kgs
Mechanical interface	Φ10±0.1 mm
Adaptor	Wolf(standard), Storz(option)



KS-ELS300



H

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

AWB

Full intelligent automatic white balance with one click(White balance and freeze buttons on the camera head)



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

EMC

Solving electromagnetic interference of energy platform during operation (such as ultrasonic knife, plasma knife, electrosurgical unit, etc.)



Camera head waterproof: IP8X, to prevent water from entering the camera head during the surgery.



Extinction speed is less than 0.1s, which can solve the operation delay of surgical images and reduce visual fatigue.

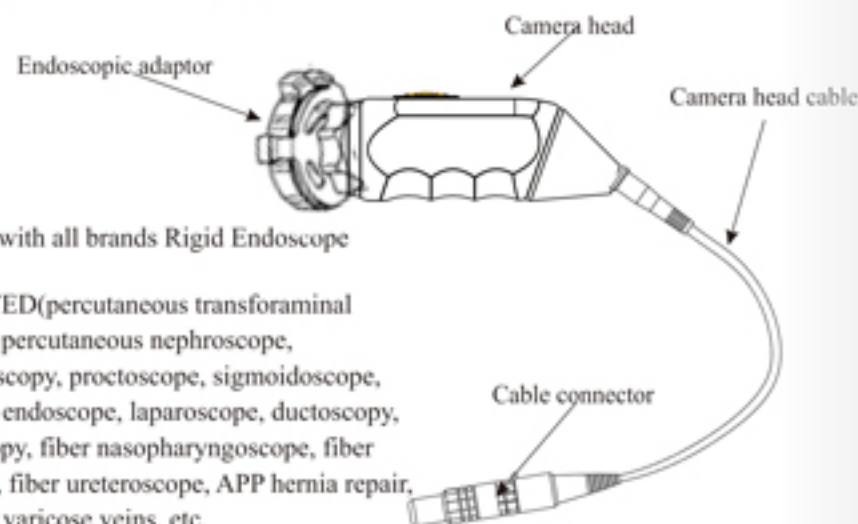
Beyond the Vision
A clear world of possibilities

KS-FHD03



Ultra High Definition:

improves visibility and allows more precise and safe surgery



HIGH FLEXIBILITY--Compatible with all brands Rigid Endoscope

can be used for arthroscopy, ENT, PTED(percutaneous transforaminal endoscopic discectomy), cystoscope, percutaneous nephroscope, ventriculoscope, ductoscope, hysteroscopy, proctoscope, sigmoidoscope, urology resectoscope, plastic surgery endoscope, laparoscope, ductoscopy, breast implant endoscope, thoracoscopy, fiber nasopharyngoscope, fiber choledochoscopy, fiber bronchoscope, fiber ureteroscope, APP hernia repair, lacrimal passage, minimally invasive varicose veins, etc.

Wider Color Gamut:

realizes rich color reproduction and provides suitable colors for each clinical discipline
enables easier determination of tissue boundaries (fat, nerves, vessels, etc.)
better visualization of blood vessels and lesions due to high range of red color reproduction



Medical Full HD Endoscope Camera



Medical Full HD Endoscope Camera

Image sensor	1/2 SONY CMOS
Language	English/Chinese
Effective pixels	P:1920(H)*1080(P)
Scanning frequency	N:60HZ P:60HZ
Scan mode	Progressive scan
Horizontal resolution	1200TVL
Digital zoom	0-100x
Color AWB auto white balance	Auto/Auto ext/Preset/Manual
D-WDR digital wide dynamic range	Off/Low/Middle/High; WDR SNR: 150Db
Brightness	0-20 steps
AGC	0-10 steps
DNR	3D Denoise
SNR	≥42dB
Output port	SDI, CVBS
Brightness	ODS adjustable
DSS	30x

Laryngology-ear,nose,throat





LED Medical Endoscope Light source



STORZ Connector of optical fiber



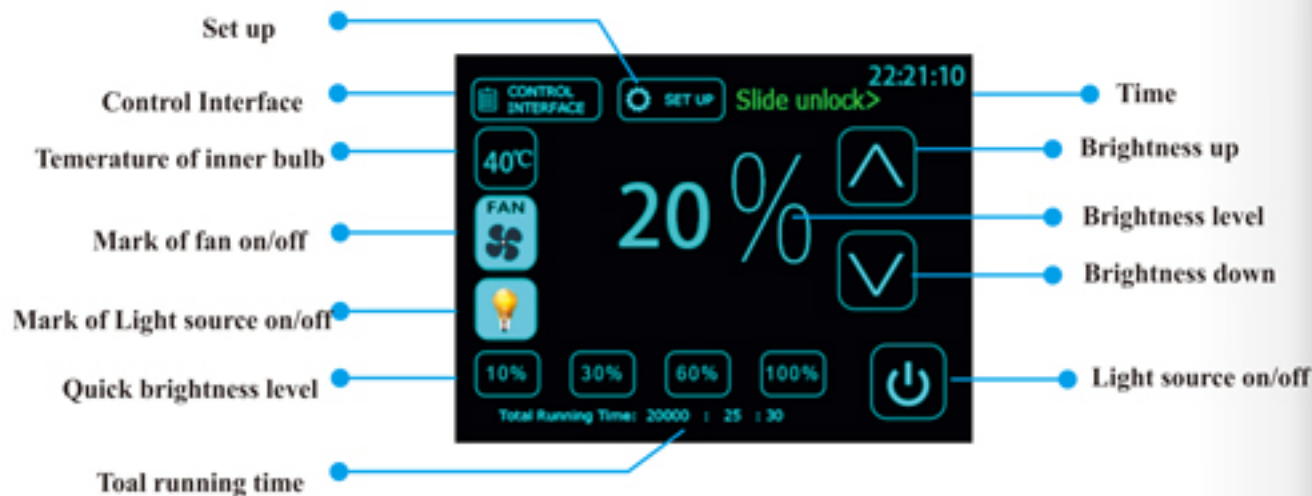
For its good illumination and clear image, the cold light source is mainly used in endoscopeµscope clinical medical to supply light source. It can provide good illumination in test,treatment, surgery, camera and video of body cavity organs.



WOLF Connector of optical fiber (Standard)

1. 3.5inch touch LCD display, stable light output
2. Low noise(<40dB), low power
3. Quickly brightened, adjustable output luminance
4. Long working life(more than 50000h)
5. High brightness, high conversion
6. Uniform illumination, no shining

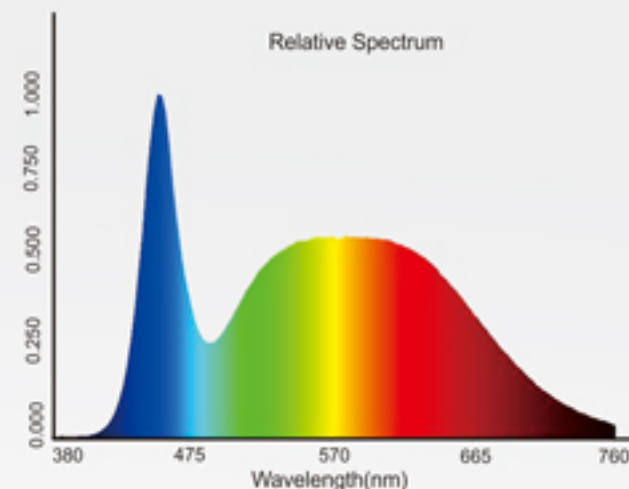
LED Endoscope Cold Light Source KS-ELS100A/200A/280A



KS-ELS280A 250W

KS-ELS200A 200W

KS-ELS100A 100W





LED Medical Endoscope Light source



KS-ELS200A



General Surgery E.N.T Dept Orthopedic Dept Gynecology Dept



Urology Dept Neurosurgery Dept Plastic Surgery

Technical Data of KS-ELS200A

Light source:	LED light source
Life span of LED	50,000Hours
Input power	200VA
Input Voltage	AC100-240V, 50/60Hz
Color rendering index	>90
Color Temperature	5700-7000K
Illumination Intensity:	> 2,000,000 Lux
Brightness control	0-100% brightness adjustment(3.5 inch touch screen)
Infrared cutoff	≤6 mW/lm (300nm~1700nm)
Φ _{er} (630nm~660nm)/ Φ _{eg} (515nm~545nm)	0.75
Φ _{eb} (435nm~465nm)/ Φ _{eg} (515nm~545nm)	1.45
Illumination uniformity	0.95
Size of products	300mm×310mm ×100mm
Weight of product	4.4 kgs
Mechanical interface	Φ10±0.1 mm
Adaptor	Wolf(standard), Storz(option)

LED Medical Endoscope Light source



KS-ELS100A



General Surgery E.N.T Dept Orthopedic Dept Gynecology Dept



Urology Dept Neurosurgery Dept Plastic Surgery

Technical Data of KS-ELS100A

Light source:	LED light source
Life span of LED	20,000Hours
Input power	100VA
Input Voltage	AC100-240V, 50/60Hz
Color rendering index	>90
Color Temperature	5700-7000K
Illumination Intensity:	> 2,000,000 Lux
Brightness control	0-100% brightness adjustment(3.5 inch touch screen)
Infrared cutoff	≤6 mW/lm (300nm~1700nm)
Φ _{er} (630nm~660nm)/ Φ _{eg} (515nm~545nm)	0.75
Φ _{eb} (435nm~465nm)/ Φ _{eg} (515nm~545nm)	1.45
Illumination uniformity	0.95
Size of products	300mm×310mm ×100mm
Weight of product	4.4 kgs
Mechanical interface	Φ10±0.1 mm
Adaptor	Wolf(standard), Storz(option)



LED Medical Endoscope Light source

KS-ELS100A/200A/280A



can be used for both diagnostic and surgery, mainly for surgery of laparoscopy, hysteroscopy, ENT, arthroscopy, urology, anorectal, etc.

During surgery, the endoscopy light source can provide light for doctors to operate.



Lightsource with optical fiber+fiber headlight



Lightsource with optical fiber+rigid endoscope



with optical fiber
headlight KS-H8

Wolf connector
standard

2 in 1 fiber

Storz connector



KS-ELS100 (digital display)



Surgical endoscopic optic fiber cable

Product code Product name Specification

FOC-097	Fiber optic light cable	4x1800mm
FOC-098	Fiber optic light cable	4x2000mm
FOC-099	Fiber optic light cable	4x2500mm
FOC-100	Fiber optic light cable	4x3000mm
FOC-101	Fiber optic light cable	4x3500mm
FOC-102	Fiber optic light cable	5x2500mm
FOC-103	Fiber optic light cable	5x3000mm



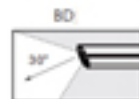
2 in 1 Connector to light source

Connector to endoscope

Medical Rigid Endoscopes for ENT Surgery



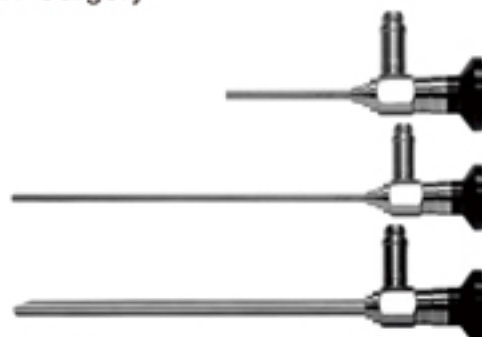
ENT	OTOSCOPE	OTOSCOPE
0°	0° 4.5x50mm	0° 2.7x100mm
30°	30° 4.5x50mm	30° 2.7x100mm



BD	Sinoscope	Sinoscope
0°	0° 4.5x175mm	0° 2.7x175mm
30°	30° 4.5x175mm	30° 2.7x175mm
70°	70° 4.5x175mm	70° 2.7x175mm



HNJ	Laryngoscope	Laryngoscope
0°	0° 4.5x175mm	0° 2.7x175mm
30°	30° 4.5x175mm	30° 2.7x175mm
70°	70° 4.5x175mm	70° 2.7x175mm



Fiber Optic Surgical Headlight

The fiber headlight includes a Diameter 4mm, length 2000mm long fiber optic cable.

The facular size of the headlight is adjustable at the 250mm, ranging from 6mm to 65mm.

The surgical fiber headlight should link with a cold light source for illuminating.

It is common used in dental, ENT, and other surgical examination and operations.

Medical endoscope light source KS-ELS100



Surgical ENT fiber Headlight KS-H8



Medical fiber optic with rigid endoscope

Small light source. Huge advantage.

Removes cords from the procedure room



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The Portable LED Light Source KS-ELS03/05 transforms your flexible or rigid endoscope into a portable device. It delivers exceptional light intensity and quality in a compact unit that eliminates the need for external light sources, cables and lamp replacement. Bright lighting with precise control is crucial for internal diagnosis. KS-ELS03/05 provides portable lighting solutions that simplify the task of delivering illumination to hidden areas, facilitating effective and efficient inspection virtually anywhere.

① fiber optic cable adaptor



② fiber optic Wolf adaptor



Portable Medical Endoscope Light source

KS-ELS05/ H05



STORZ

WOLF

① fiber optic cable adaptor

② fiber optic Wolf adaptor

③ fiber optic Storz adaptor



Technical Data of KS-ELS05

Light source:	5W LED
Color index	>90
Color Temperature	5700-6500K
Illumination Intensity:	> 400,000 Lux (> 80,000 Lux with endoscope)
Brightness control	3 steps light pressing
Size of products	145mm×23mm
Weight of product	100g
Battery type	Lithium 18650
Volume of battery	3.7v 2600mAh
Working time	4-6 hours
Recharging time	2-3 hours
Adaptor	3 pcs stainless steel, Wolf, Storz, endo-cable
Shell	full aluminium alloy, water proof
Usage	with endoscope, optical cable, endo-camera