The UHD endoscope is developed by Endoso independently. It combines image adjustment close to clinical needs, and can perfectly present high contract, sharp and color restored real clinical images for you.

Laparoscope - Regular



Viewing angle	Endoscopic diameter	Working length	Depth of field	Field of vision	Transparency
0°	10mm	345mm	3-200mm	⩾80°	White light/ Fluorescence
30°	10mm	345mm	3-200mm	⩾80°	White light/ Fluorescence
45°	10mm	345mm	3-200mm	⩾80°	White light/ Fluorescence

Laparoscope - Extended



Viewing angle	Endoscopic diameter	Working length	Depth of field	Field of vision	Transparency
0°	10mm	450mm	3-200mm	⩾80°	White light/ Fluorescence
30°	10mm	450mm	3-200mm	⩾80°	White light/ Fluorescence

Thoracoscope



Viewing angle	Endoscopic diameter	Working length	Depth of field	Field of vision	Transparency
0°	5.5mm	308mm	3-100mm	⩾70°	White light/ Fluorescence
30°	5.5mm	308mm	3-100mm	⩾70°	White light/ Fluorescence

Anti-fogging

Withstand 500 times of high temperature and autoclave sterilization

Excellent white/ fluorescent parfocality

High fluorescence transmittance

Sapphire sealed window to improve wear resistance

High resolution distortion free

Next-generation 4K Camera Head

Camera components are available in standard and
auto focus models, integrating functionality and comfort.



◎ Ultra High-definition

3840×2160 pixel

◎ The waterproof grade is up to IPX7

Under certain conditions, they can be soaked directly.

Standard

◎ Controlled by 4 buttons

Standard camera head supports 7 different configurations, such as intraoperative photography, video recording, and screen freezing with one click. Auto focus camera head includes one more auto focus function.

◎ Multi-lens versatility

You can use one camera head to meet full-screen display need for laparoscopy, and can also use it to meet round-screen display need for urology, gynecology, ENT etc.

◎ Broad compatibility

The open international standard C-mount type design is widely compatible with different brands and models of endoscopes.

Lens components can focus quickly in 0.5 seconds with one click



Auto focus



ENDOSCOPIC FLUORESCENCE IMAGING SYSTEM

Dual chain true 4k

With resolution of up to 3840*2160p, 4K technology offers four times higher resolution than HD.

More accurate fluorescence

High-pass coating technology and unique image algorithm can capture even smaller details of fluorescence signal changes, accurate and stable positioning, image flicker and delay free.

Ultra-long lifespan LED light source

The luminous flux could be up to 2,000 Lm, and the lifespan of the light source chip could exceed 60,000 hours, which make it reliable and highly durable



Multiple mode switching

Four modes available: fusion, gray gradient, white light, fluorescence. Highly restore the real image color and convenient to use, which could fully meet the



One-click autofocus

AutoFocus camera head supports one-click 0.5 second quick focus, the camera head is designed ergonomically and compact, as well as low temperature rise.

3-200mm large depth of field

Endoso fluorescence and white light 2-in-1 endoscope offers 3-200mm wide depth of field, helps you to observe during procedures clearly in different distances.



Fluorescence mechanism

The fluorescent tracer indole is injected into the lymph or blood circulation in the body by local tissue or intravenous injection

Indocyanine green binds to plasma proteins in the body

After receiving infrared light with a wavelength of 785nm, fluorescence with a wavelength of 815nm was activated

The fluorescence camera system captures the fluorescence signal of indocyanine green in real time, and synchronously and accurately superimposes the white light image of the same field of view to achieve the purpose of fluorescence positioning and navigation in the surgical field

Configuration

Item	Model	Specification
Camera system	R600	Resolution of 3840×2160 and 1920×1080 two options, support 60Hz, 30Hz output frame rate, high-definition pictures and videos can be saved in USB storage
Cold light source	RL600	With LED visible light and near infrared light dual light source
Endoscopes	Laparoscope Thoracoscope	White and fluorescent integrated endoscope, 0°/30°/45°
Medical Monitor	55", 32", 27"	The resolution is available in 3840×2160 and 1920×1080
Trolley	TR800-2000	Four-tier shelf with hanger and foot brake; Compatible with 32 /55-inch monitor, endoscopic camera system, cold light source and insufflator.

Application department

Thoracic surgery

Lung segment identification, nodule localization, incisal margin determination, lymphatic tracing

Urology

Incisal margin determination, microfocus identification, lymphatic tracing

Hepatobiliary surgery

Hepatic segment development, microfocal identification, lymph tracing, incisal margin determination

Gastrointestinal surgery

Incisal margin determination, nodule exploration, lymph tracing, anastomosis evaluation

Gynecology

Incisal margin determination, lymphatic tracing, nodular exploration