



GEIWRE Full HD Endoscopic System



WeChat official account



Company's website



Technical support



Complaint and advice

4K CAMERA 4K FLUORESCENCE



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Japan&Germany : R&D Center
China : Manufacturing base

Xuzhou Hengjia Electronic Technology Co.,Ltd

Established in 2010, we are a high-tech medical product enterprise integrating R&D, production, sales and after-sales, specializing in medical endoscopy camera system, HD endoscope camera series (HD 1080P, Full HD 1200P, 4K FHD 2100P), LED cold light source, HD medical monitor, CO₂ Insufflator, Irrigation pump, medical instruments, etc. Outstanding quality is the foundation of our company and all products are manufactured by our factory in China with ISO 13485 certificate and ISO9001 quality system certification. We are looking forward to providing you the best service.

Product advantages

1. The camera chip adopts German technology, the picture quality is clear and realistic, which will not cause fatigue and vertigo when the doctor is doing the surgery.
2. Deeper depth of field, the images of different fields of view during surgery are the same, and the edges of the images are not blurred, which improves the accuracy and effectiveness of minimally invasive surgery.
3. Metal casing, strong anti-interference and more wear-resistant than plastic.
4. No visual delay of the image during the surgery, which helps to improve the accuracy of the surgery and helps to relieve the surgery fatigue.



Medical 4K Camera System

4K 2160P



- More transparent overall picture
- More realistic colour reproduction
- Stronger stereoscopy
- Longer depth of field
- Quality Service
- Longer warranty

4K Camera System Mainframe



- Model: GEV-610
- Camera: 9,000,000 pixel 3*1/2.8" CMOS
- Resolution: 3840(H)*2160(V)
- Clarity: 2100 Lines
- Minimum illumination: 0.3Lux
- Video output: HDMI2.0/3G-SDI(4K Ultra HD output)VI,USB3.0*2,LAN
- Shutter speed: 1/60~1/60000(NTSC),1/50~50000(PAL)
- Camera cable: 2.8m / Length customized
- Power supply: 85~264VAC

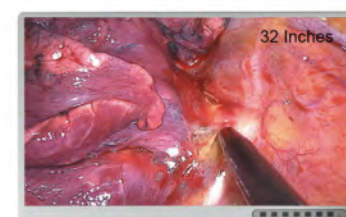
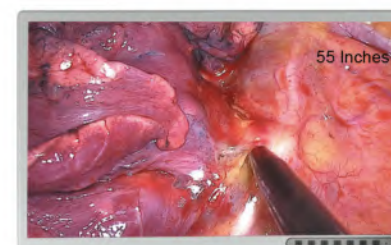


- Model: HJ-30 (Touch screen)
- Output power: 140W
- Long life: ≥50000Hours
- Color temperature: ≥3000~7000K
- Brightness: 65000lx
- Dimming mode: Touch button, PWM can set a variety of working curves, Automatic temperature detection and control, colour rendering index ≥93
- Light cable: F4.8,3000mm, autoclavable

Medical 4K monitor

Product advantages

- Adopted the world's leading imaging image data arrangement to ensure the accurate separation of the three original colours of light
- Horizontal resolution up to 2160 lines, fine display of the fine blood vessels, fine nerves, fascia level in surgery
- Medical imported LCD screen, a variety of colour adjustment modes



Model	3210	5510
Screen Size	32inches	55inches
Resolution	3840*2160/1920*1080	3840*2160/1920*1080
Aspect Ratio	16:9/4:3	16:9/4:3
Power	85~264VAV 50/60HZ	85~264VAV 50/60HZ
Colour Tone	16.7m	16.7m
Brightness	1100cd/m ²	1100cd/m ²
Viewing Angle	178H/178V	178H/178V
Boot speed	1ms	1ms
Interface	VGA/DVI/DC/SDI*2/HDMI	VGA/DVI/DC/SD I*2/HDMI

Medical 4K optical coupler



Fixed focus/Zoom

4K Resolution: 4096*2160
 Zoom specifications: 14-32,18-35mm
 Fixed focus specifications: 13,16,18,20,22,24,28,32,35mm
 Portable operation: Ergonomic design for easy operation



FHD 1200P

The camera has white balance, freezing, photo taking, video playback, storage, etc. It can be equipped with network, video recording, remote consultation teaching, etc.

Applicable departments: gynecology, urology, hepatobiliary surgery, orthopedics, otolaryngology, neurosurgery, cosmetology and other examinations and operations.



HD-910 Product Parameter

- Camera: 2,600,000 Pixels 1/1.8 "CMOS
- Resolution: 1920 (H) *1200(V)
- Definition: 1200 Lines
- Minimal illumination: 0.3Lux
- Video output signal digital: 3G-SDI, DVI, VGA, HDMI, USB
- Shutter speed: 1/60~1/60000(NTSC), 1/50~50000(PAL)
- Camera cable: 2.8m/ Length customized
- Power supply: 85~264VAC
- Language: Chinese, English, Russian, Japanese and Spanish can be switched



FHD 1200P

The camera has white balance, video recording, freezing, photo taking, storage, etc. It can be equipped with network, remote consultation teaching, etc.

Applicable departments: gynecology, urology, hepatobiliary surgery, orthopedics, otolaryngology, neurosurgery, cosmetology and other examinations and operations.

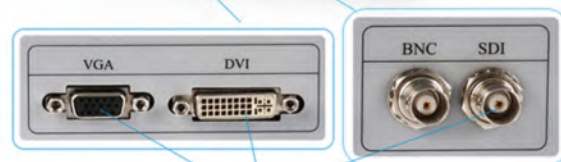


HD-920 Product Parameter

- Camera: 2,600,000 pixels 1/1.8 "CMOS image sensor
- Resolution: 1920 (H) *1200(V)
- Definition: 1200 Lines
- Minimal illumination: 0.3Lux
- Video output signal digital: 3G-SDI, DVI, VGA, HDMI, USB
- Power supply: 85 ~ 264VAC
- Shutter speed: 1/60~1/60000(NTSC), 1/50~50000(PAL)
- Camera cable: 2.8m/Length customized
- LED Lamp power: 120W
- Long life: ≥ 50000Hours
- Language: Chinese, English, Russian, Japanese and Spanish can be switched



HD 1080P



HD Output Interface

The camera has white balance, video recording, freezing, photo taking, storage, etc. It can be equipped with network, remote consultation teaching, etc.

Applicable departments: gynecology, urology, hepatobiliary surgery, orthopedics, otolaryngology, neurosurgery, cosmetology and other examinations and operations.

HD-810 Product Parameter

- Camera: 2,000,000 Pixels 1/2.8 "CMOS
- Resolution: 1920 (H) *1080(V)
- Definition: 1080 Lines
- Minimal illumination: 0.3Lux
- Video output signal digital: HDMI,DVI,HD-SDI,CVBS,USB

- Shutter speed: 1/60~1/60000(NTSC),1/50~50000(PAL)
- Camera cable: 2.5m/Length customized
- Power supply: 85 ~ 264VAC
- Language: Chinese, English, Russian, Japanese and Spanish can be switched



Camera panel function menu to achieve a variety of operations.

Applicable department: department of gynaecology, otolaryngology, orthopedic cosmetic department and other routine examination and surgery.

HD 1080P

HD-820 Product Parameter

- Camera: 2,000,000 pixels 1/2.8 "CMOS
- Resolution: 1920 (H) *1080(V)
- Definition: 1080 Lines
- Minimal illumination: 0.3Lux
- Video output signal digital: HDMI,DVI,HD-SDI,CVBS,USB
- Shutter speed: 1/60~1/60000(NTSC),1/50~50000(PAL)
- Camera cable: 2.5m/Length customized
- Power supply: 85 ~ 264VAC
- LED Lamp power:100W
- Long life: ≥50000Hours
- Language: Chinese, English, Russian, Japanese and Spanish can be switched

Camera panel function menu to achieve a variety of operations.

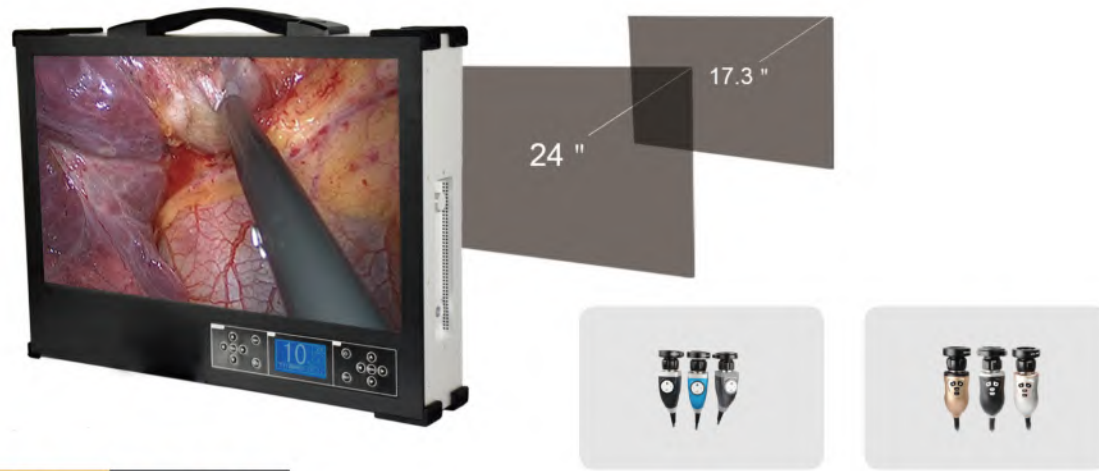
Applicable department: department of gynaecology, otolaryngology, orthopedic cosmetic department and other routine examination and surgery.

SD 900P

HD-720 Product Parameter

- Camera : 1,800,000 Pixels 1/3 "Sony
- Resolution: 1560 (H) *900(V)
- Definition: 900 Lines
- Minimal illumination: 0.1Lux
- Video output signal digital: BNC*2
- Shutter speed: 1/60~1/60000(NTSC),1/50~50000(PAL)
- Camera cable: 2.5m/ Length customized
- Power supply: 85 ~ 264VAC
- LED Lamp power:100W
- Long life: ≥50000Hours
- Language: Chinese, English, Russian, Japanese and Spanish can be switched





4K 2160P

HD-390(Size optional) Parameter

- Camera: 9,000,000 pixels 3*1/2.8" CMOS
- Resolution: 3840 (H) *2160(V)
- Video output: HDMI2.0/3G-SDI(4K UHD output) DVI,USB3.0*2,LAN
- Handle wire: 2.8m/Length customized
- LED lamp power: 140W
- Long life ≥50000Hours
- Power: 85 ~ 264VAC
- Monitor : 17.3 " /24 " monitor
- Language: Chinese, English, Russian, Japanese and Spanish



UHD 1300P

HD-380(Size optional) Parameter

- Camera: 3,000,000 pixels 3*1/2.8" CMOS
- Resolution: 1920 (H) *1300(V)
- Video output: 3G-SDI,DVI,VGA,HDMI,USB
- LED lamp power: 120W
- Long life ≥50000Hours
- Power: 85 ~ 264VAC
- Monitor : 17.3 " /24 " monitor
- Language: Chinese, English, Russian, Japanese and Spanish



FHD 1200P

HD-370(Size optional) Parameter

- Camera: 2,600,000 pixels 1/1.8" CMOS
- Resolution: 1920 (H) *1200(V)
- Video output: HDMI,SDI,DVI,BNC,USB
- Handle wire: 2.8m/Length customized
- LED Lamp power: 120W
- Long life ≥50000Hours
- Power: 85 ~ 264VAC
- Monitor : 13.3 " /17.3 " /24 " monitor
- Language: Chinese, English, Russian, Japanese and Spanish



Advantages: Primary color, long depth of field, fatigue relief,manual white balance, freeze key,USB video storage key, take photos, store, video,remote control,consulting training program,The USA imported LED lamp beads,light source 120w sony 13.3 " /17.3 " /24 " LCD monitor.



HD 1080P

HD-370I(Size optional) Parameter

- Camera: 2,000,000 pixels 1/2.8" CMOS
- Resolution: 1920 (H) *1080(V)
- Video output: HDMI,SDI,DVI,BNC,USB
- Handle wire: 2.8m/Length customized
- LED Lamp power: 100W
- Long life ≥50000Hours
- Power: 85 ~ 264VAC
- Monitor : 24 " monitor
- Language: Chinese, English, Russian, Japanese and Spanish



Advantages: Primary color, long depth of field, fatigue relief,manual white balance, freeze key,USB video storage key, take photos, store, video,remote control,consulting training program,The USA imported LED lamp beads,light source 120w sony 24 " LCD monitor.



FHD 1200P

HD-330 Product Parameter

- Camera : 2,600,000 Pixels 1/1.8 "CMOS
- Resolution: 1920 (H) *1200(V)
- Definition: 1200 Lines
- Video output signal: HDMI,SDI,DVI,BNC,USB
- Shutter speed: 1/60~1/60000(NTSC),1/50~50000(PAL)
- Camera cable: 2.8m/Length customized
- LED Lamp power: 100W
- Power: 85 ~ 264VAC
- Long life: ≥50000Hours
- Language: Chinese, English, Russian, Japanese and Spanish

Advantages: White balance, high-definition freezing, photo-taking, video storage, The color is true, the image is delicate, and the depth of field is longer.



HD 1080P

HD-320 Product Parameter

- Camera : 2,000,000 Pixels 1/2.8"CMO
- Resolution: 1920(H)*1080(V)
- Definition: 1080 Lines
- Video output : HDMI,SDI,DVI,BNC,USB
- Shutter speed: 1/60~1/60000(NTSC),1/50~50000(PAL)
- Camera cable: 2.8m/Length customized
- LED Lamp power: 100W
- Power: 85 ~ 264VAC
- Long life: ≥50000Hours
- Language: Chinese, English, Russian, Japanese and Spanish

Advantages: White balance, high-definition freezing, photo-taking, video storage, The color is true, the image is delicate, and the depth of field is longer.



SD 900P

HD-310/HD-310(plastic) Product Parameter

- Camera: 1,800,000 pixels 1/3" Sony
- Image size: 1560 (H) *900(V)
- Video output: BNC,BNC
- Handle wire: 2.5m/Length customized
- LED Lamp power: 100W
- Long life ≥50000Hours
- Power: 85 ~ 264VAC
- Monitor : 15.6 " monitor
- Language: Chinese, English, Russian, Japanese and Spanish

Advantages: Camera panel function menu to achieve a variety of operations.



GEV-300 Product Parameter

- Power supply voltage and frequency : 85 ~ 264VAC
- Power supply power: 100~400W (optional, 300W)
- Ambient temperature: -20°C~80°C
- Ambient humidity: 30%~75%
- Use gas: medical grade CO₂
- Working pressure range: 0~25mmHg
- Gas flow: 30L/40L/50L min

Model	GEV-300	GEV-400	GEV-450
Gas flow	30L	40L	50L

Advantages: LCD touch screen display, so that the operator at a glance, Automatic adjustment of pulse air supply time, making clinical application more safe and reliable, Optional heating function.

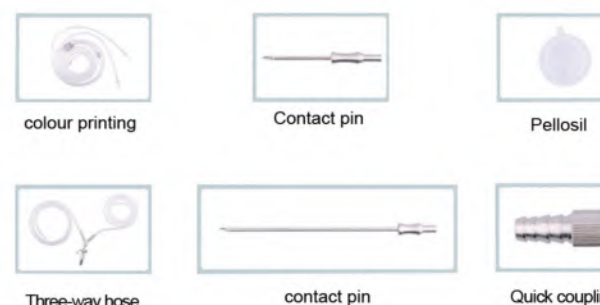


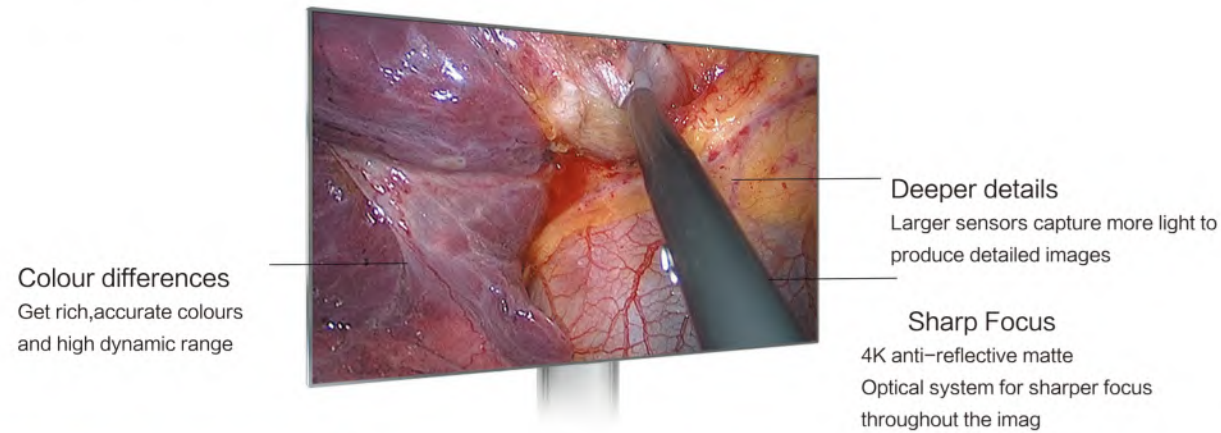
GEV-210 Product Parameter

- Supply voltage: 85 ~ 264VAC
- Pressure setting range of irrigation:50~700mmHg
- Flow setting range of irrigation:10~1500ml/min
- Pressure setting range of suction:15~400mmHg
- Flow setting range of suction;1000ml~3000ml/min
- Noise: ≤70dB(A)

Function	Irrigation	Irrigation	Irrigation with suction
Pressure range	50~400mmHg	50~700mmHg	50~700mmHg

Advantages: Use for gynaecology, urinary surgery irrigation and endoscope operating irrigation and suction. irrigation and suction in joint operating and suction in brain surgery.





Medical Monitor Parameters

Model	HD-2110W	HD-2410W	HD-2710W	HD-3210W	HD-5510W
Screen Size	21inches	24inches	27inches	32inches	55inches
Resolution	1920*1080	1920*1080/3840*2160	1920*1080/3840*2160	1920*1080/3840*2160	1920*1080/3840*2160
Aspect Ratio	16:9				
Power	12V		24V	85~264VAC 50/60Hz	
Colour Tone	16.7m				
Brightness	450cd/m ²	750cd/m ²	1000cd/m ²	1100cd/m ²	1100cd/m ²
Viewing Angle	178H/178V				
Boot speed	1ms				
Interface	USB,HDMI,DVI,VGA,AV*3,Aud*2			HDMI*3,DP,Aud	HDMI*2,DVI,VGA,BNC*2,USB,Input*2,Output*2,LAN



(HJ-30)

Product advantages

1. Color temperature 3000K~7000K, no stray light, close to natural light, strong permeability, strong three-dimensional sense of surgical field;
2. American medical grade LED light emitting components, strong stability;
3. Long life :LED luminous life is greater than or equal to 40,000 hours,
4. No need to frequently replace the bulb;
5. Good compatibility: guide beam interface international common,
6. can be connected to STORZ, WOLF, Stryker, Smith & Nephew and other brands.

Cold light source parameters

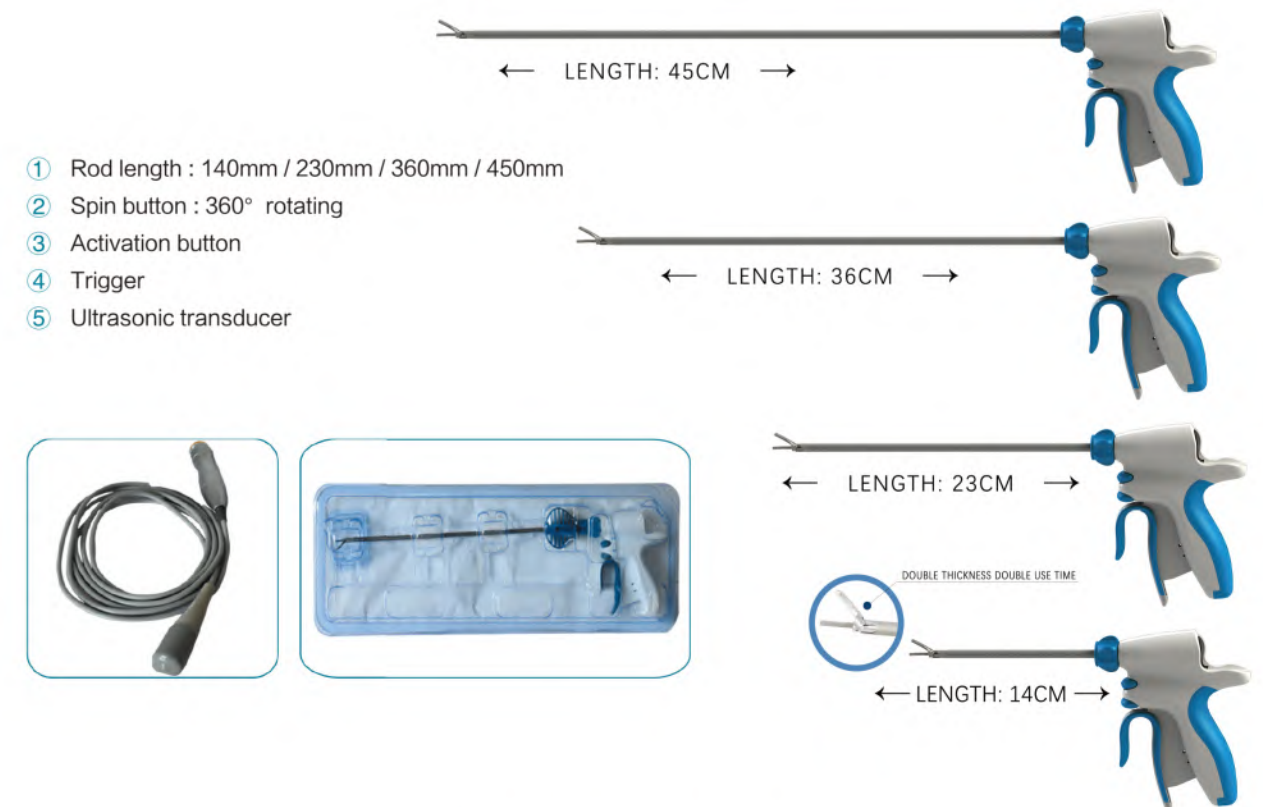
- Power supply: 85~264VAC
- Rated power input : ≤ 250 va
- Safety classification: I BF type
- LED lamp power :60W/80W/100W/120W/180W
- Lamp life: ≥5000h
- Color temperature: 3000K ~ 7000K
- Luminous flux: > 100 lm (No limit)
- Brilliance control: 0~100 continuously adjustable
- Continuous working hours : 12h
- Input fuse: F3AL250V φ5×20
- External dimension: 310×300×130mm



Product Parameter

- External dimensions: 36cm (L) x 40cm (W) x 16cm (H)
- Input power: 85 ~ 264VAC
- Rated power: 100VA
- Fuse: 3A
- Excitation frequency: 55.5kHz ± 1.0kHz
- Ambient temperature: 10°C to 40°C
- Relative humidity: ≤75%
- Atmospheric pressure: 700hPa to 1060hPa

The host starts up with an intelligent self-test, no need for manual testing. The host has an intuitive 5-stage energy adjustment interface, 1-5 free selection switch. Better coagulation effect, faster cutting speed, preventing adhesions during surgery. Surface roughness : Surface roughness of the tool tip Ra ≤ 0.8 μm.





Video Processor and Cold Light Source Parameters

- Lamp : LED light (80W white)
- Power: 85 ~ 264VAC
- Color temperature : $\geq 5300K$, 140000lx illumination
- Brightness:0-10 level adjustable
- Video signal outputt: HDMI x2,DVI
- Air pump pressure : 30-60Mpk,
- Air pump power :Strong/medium/weak 3 level adjustable
- Air flow : 4-10 L/min
- Vascular enhancement:Can increase vascular clarity
- Electronic amplification :Support 1.2/1.5/1.7/2.0 times 4-gear electronic amplification function

Medical Monitor Parameters

- Display size: 21 " /24 "
- Interface: DVI/USB/BNC/CVBS
- Resolution:1920x1080
- Display Ratio: 16:9
- Color:16.7M
- Max.Brightness: 200 cd/m²
- Package size:320*550*760mm (G.W.:12.6kgs)



Electronic Gastroscope Parameters

- Outer diameter of head end $\leq \Phi 9.8mm$
- Outer diameter of main hose $\leq \Phi 9.6mm$
- Inner diameter of clamp pipe $\geq \Phi 2.8mm$
- Working length $\geq 1050mm$
- Total length $\geq 1335mm$
- Field of view $\geq 140^\circ$ (direct view)
- Observation depth $\geq 3-100mm$
- Resolution ≥ 1 million pixels CMOS HD-1080P
- Bending angle $\geq 210^\circ$ upward $\geq 90^\circ$ downward Left and right $\geq 100^\circ$ maximum 230°



Electronic Colonoscope Parameters

- Outer diameter of head end $\leq \Phi 12.8mm$
- Outer diameter of main hose $\leq \Phi 12.8mm$
- Inner diameter of clamp pipe $\geq \Phi 3.7mm$
- Working length $\geq 1330mm$
- Total length $\geq 1650mm$
- Field of view $\geq 140^\circ$ (direct view)
- Observation depth $\geq 3-100mm$
- Resolution ≥ 1 million pixels CMOS HD-1080P
- Bending angle $\geq 210^\circ$ upward $\geq 100^\circ$ downward $\geq 100^\circ$ left and right $\geq 230^\circ$ maximum

Electronic ureteroscope

The product can be used for Electronic ureteroscope, Ergonomic design, light weight operation structure, reduce the operator's work intensity, The bullet head is inserted into the head, convenient to enter the device and the body. Integrated video plug, cold light lighting after, avoid burning tissues, Independently packaged three-way adaptor, with optical fiber locking device. Perfusion pump system that can connect existing brand and domestic brand in operating room Use aseptic independent packaging, disposable.



Ureteroscope parameter

Model	GEV-H310	GEV-H320	GEV-H340
Size	720mm*3.8mm*2.2mm	720mm*3.8mm*1.2mm	680mm*2.8mm*1.2mm
Pixel	HD320,000	HD320,000	HD320,000
Field angle	110°	110°	110°
Depth of field	2-50mm	2-50mm	2-50mm
Apex	3.9mm	3.9mm	2.9mm
Insert tube outer diameter	3.8mm	3.8mm	2.8mm
Inside diameter of working passage	2.2mm	1.2mm	1.2mm
Angle of bend	Turn up≥220°Turn down275°		
Effective working length	720mm	720mm	680mm

Electronic choledochoscope

It can be compatible with multiplex electronic pyeloscope host system, The product can be used for choledochoscope, Ergonomic design, light weight operation structure, reduce the operator's work intensity. The bullet head is inserted into the head, convenient to enter the device and the body. Integrated video plug, cold light lighting after, avoid burning tissues, Independently packaged three-way adaptor, with optical fiber locking device. Perfusion pump system that can connect existing brand and domestic brand in operating room, Use aseptic independent packaging, disposable.



Choledochoscope parameter

Model	GEV-YH301	GEV-YH302	GEV-YH304
Size	720mm*3.8mm*2.2mm	720mm*3.8mm*1.2mm	680mm*2.8mm*1.2mm
Pixel	HD320,000	HD320,000	HD320,000
Field angle	110°	110°	110°
Depth of field	2-50mm	2-50mm	2-50mm
Apex	3.9mm	3.9mm	2.9mm
Insert tube outer diameter	3.8mm	3.8mm	2.8mm
Inside diameter of working passage	2.2mm	1.2mm	1.2mm
Angle of bend	Turn up≥220°Turn down275°		
Effective working length	720mm	720mm	680mm

Electronic rhinolaryngoscope

The product can be used for Electronic nose and throat scope ergonomic design, lightweight operation structure, reduce the operator's work intensity, The bullet head is inserted into the head, convenient to enter the device and the body. Integrated video plug, cold light lighting after, avoid burning tissues, Independently packaged three-way adaptor, with optical fiber locking device. Perfusion pump system that can connect existing brand and domestic brand in operating room, Use aseptic independent packaging, disposable.

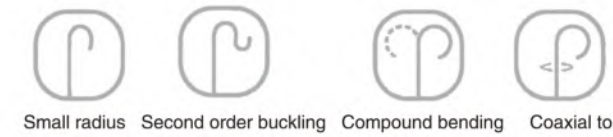
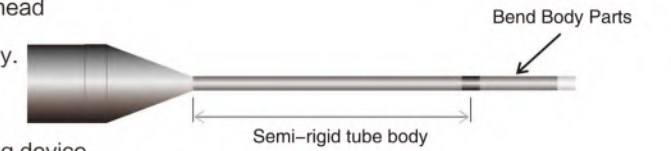


Rhinolaryngoscope parameter

Model	GEV-H370	GEV-H380	GEV-H3801
Size	680mm*4.8mm*2.2mm	680mm*3.6mm*2.2mm	480mm*2.8mm*1.2mm
Pixel	HD320,000	HD320,000	HD320,000
Field angle	110°	110°	110°
Depth of field	2-50mm	2-50mm	2-50mm
Apex	4.9mm	3.7mm	2.9mm
Insert tube outer diameter	4.8mm	3.6mm	2.8mm
Inside diameter of working passage	2.2mm	2.2mm	1.2mm
Angle of bend	Turn up≥275°Turn down275°		
Effective working length	680mm	680mm	480mm

Electronic Bronchoscope

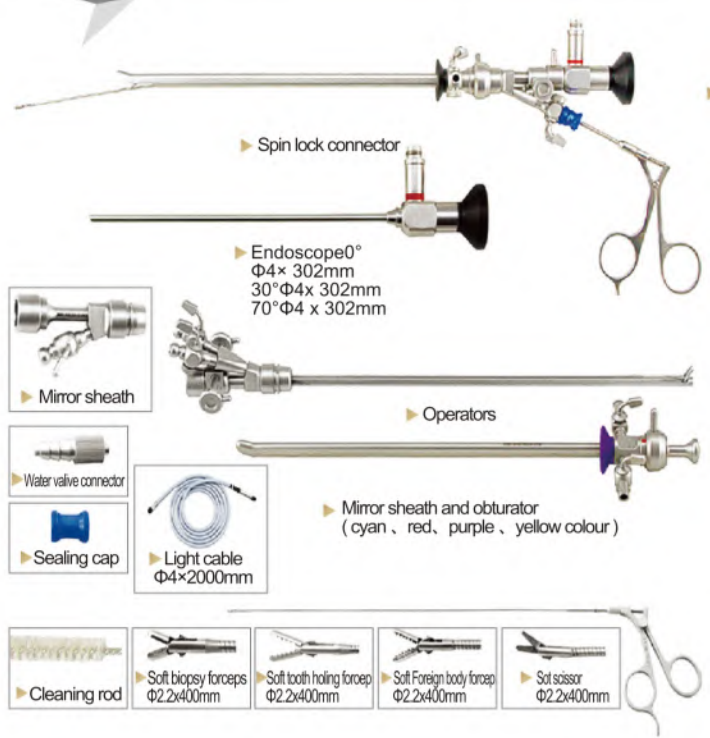
It can be compatible with multiplex electronic pyeloscope host system, The product can be used for bronchoscope. Ergonomic design, lightweight operation structure, reduce the operator's work intensity. The bullet head is inserted into the head, convenient to enter the device and the body. Integrated video plug, cold light lighting after, avoid burning tissues, Independently packaged three-way adaptor, with optical fiber locking device. Perfusion pump system that can connect existing brand and domestic brand in operating room, Use aseptic independent packaging, disposable.



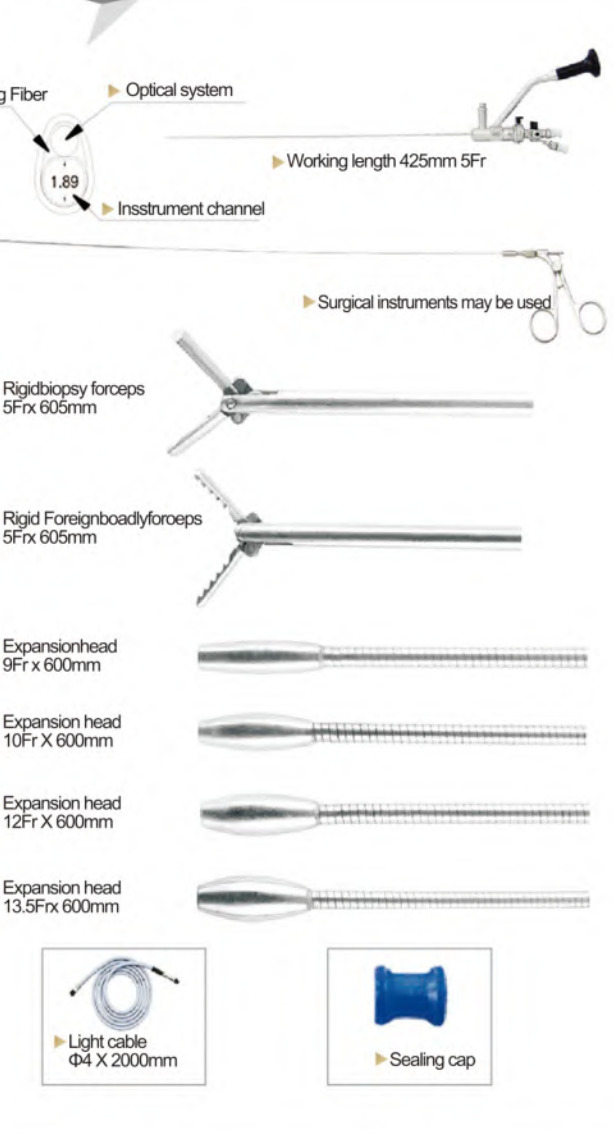
Bronchoscope parameter

Model	GEV-H350	GEV-H360	GEV-H3601
Size	680mm*3.8mm*2.2mm	680mm*4.8mm*2.2mm	580mm*2.8mm*1.2mm
Pixel	HD320,000	HD320,000	HD320,000
Field angle	110°	110°	110°
Depth of field	2-50mm	2-50mm	2-50mm
Apex	3.9mm	4.9mm	2.9mm
Insert tube outer diameter	3.8mm	4.8mm	2.8mm
Inside diameter of working passage	2.2mm	2.2mm	1.2mm
Angle of bend	Turn up≥220°Turn down275°		
Effective working length	680mm	680mm	580mm

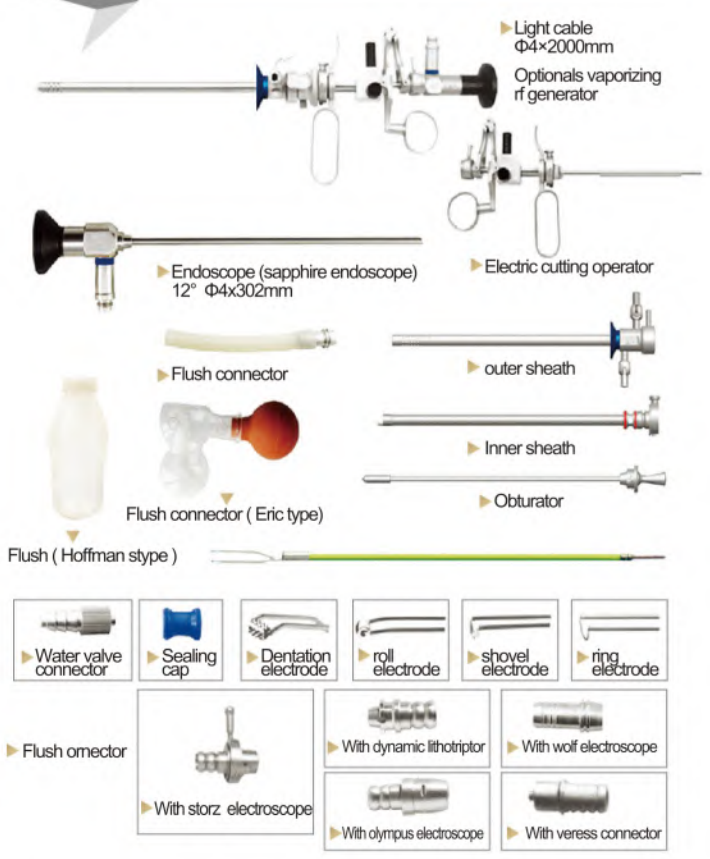
URETHROCYSTOSCOPE



URETEROSCOPE



PROSTATIC VAPORIZING ELECTROSCOPE



FIBERSCOPE



UHD Sinuscope

Specifications (autoclavable)

Product number	Diameter	Working Length	Angle of View	Ultra-wide field
BJ-01	4.0mm	175mm	0°	90°
BJ-03	4.0mm	175mm	30°	90°
BJ-04	4.0mm	175mm	45°	90°
BJ-07	4.0mm	175mm	70°	90°

UHD Otoscope

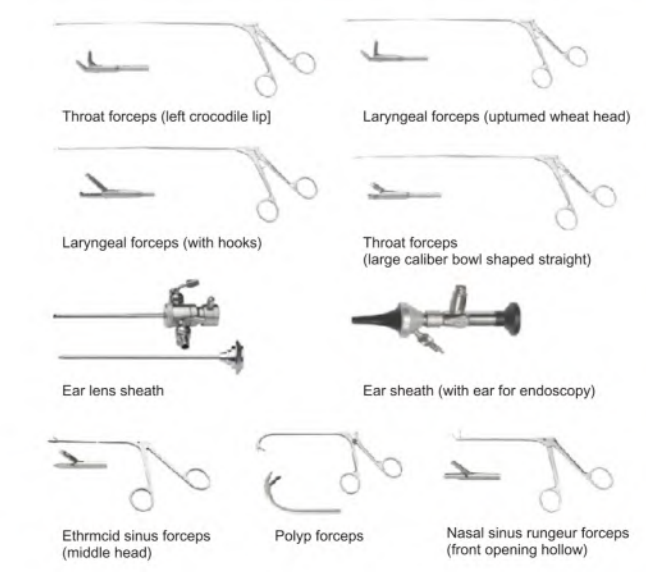
Specifications (autoclavable)

Product number	Diameter	Working Length	Angle of View	Ultra-wide field
ER-01	4.0mm	110mm	0°	90°
ER-02	3.0mm	110mm	0°	90°
ER-03	2.7mm	110mm	0°	90°

UHD Laryngoscope

Specifications (autoclavable)

Product number	Diameter	Working Length	Angle of View	Ultra-wide field
HJ-07	8.0mm	185mm	70°	90°
HJ-09	8.0mm	185mm	90°	90°
HJ-09S(handle)	8.0mm	185mm	90°	90°
HJ-071	6.0mm	185mm	70°	90°
HJ-091	6.0mm	185mm	90°	90°

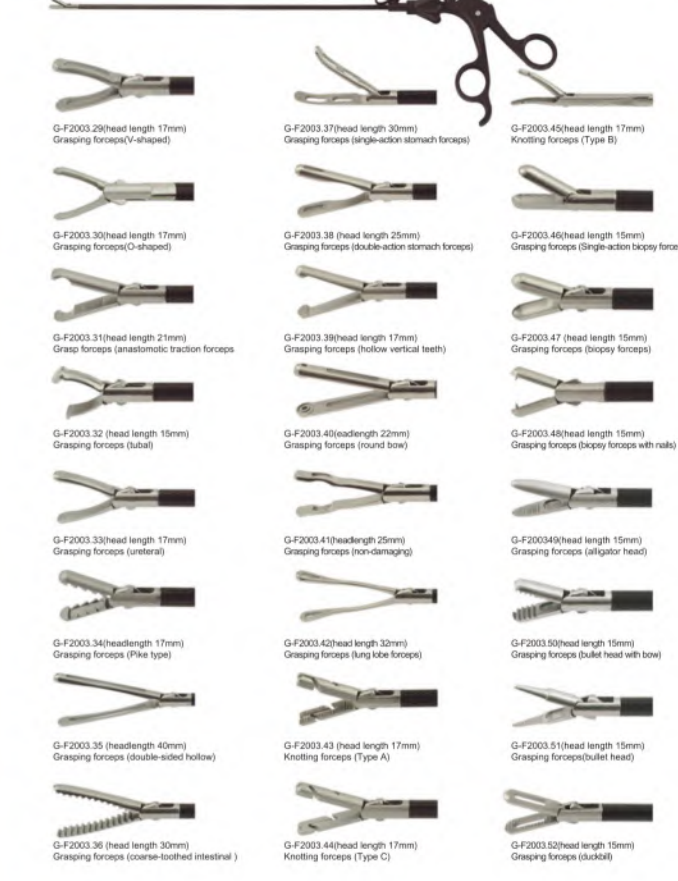


UHD Laparoscope

Specifications (autoclavable)

Autoclavable

GF0001	0° Φ10*310mm
GF0001.1	0° Φ10*330mm
G-F0001.3	0° Φ5*330mm
GF0002	30° Φ 5*310mm
G-F0002.1	30° Φ5*330mm
G-F0002.3	30° Φ10*330mm



UHD Arthroscopy

