











SHIYIN MEDICAL

ENDOSCOPE CAMERA SYSTEM COMPLETE SOLUTION



Shanghai Shiyin Photoelectric Instrument Co., Ltd.



























Company Profile



Shanghai Shiyin Photoelectric Instrument Co., Ltd. was established in 2009,located in Shanghai Nanhui Industrial Park. It is a high-tech manufacturing enterprise engaged in the research, development, production, sales and service of medical HD endoscope camera system. The company is "independently innovative, continuous improvement, and accumulated". The spirit of 'pursuit of excellence' continues to innovate, applying high-end cutting-edge technology to the field of medical minimally invasive endoscopy, providing customers with medical HD endoscope overall solutions.

The company specializes in the production of intelligent dual-mode 3D endoscope camera system, 4K UHD endoscope camera system, digital Full HD endoscope camera system, endoscope remote control system, gas insufflator, irrigation pump, medical monitors, medical LED cold light source, intelligent fume extracting system, fhd surgery video recorder, endoscopy heater, medical trolley,, instruments and other general-purpose minimally invasive solutions, which can fully meet the needs of customers in clinical departments.



International Cooperation





Operation





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SY-GW700C

Medical Endoscope Camera





Functions and advantages:

- Standard 900lines, effective pixels is 1280(H)*720(V).
- Full intelligent automatic white balance with one click(White balance and freeze buttons on the camera head)
- 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

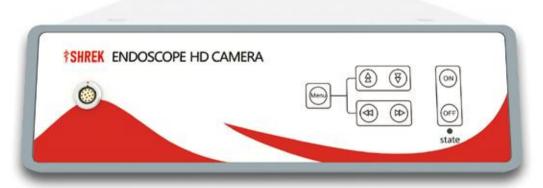
Technical parameters:

Specifications	Parameters		
Image Sensor	1/3 CCD		
Effective pixels	1280(H)*720(V)		
Scan mode	Interlacing scan		
Horizontal resoution	900TVLines		
Focusing range	≥(2~200)mm		
SNR	≥50dB		
Brightness	ODS adjustable		
Video output	BNC*2, VGA		
Min lumination	F1.2 ≤ 0.5Lux		
Certification	CE , ISO9001,ISO13485		

SY-GW800C-N

Medical HD Endoscope Camera





Functions and advantages:

- Intelligent digital full HD 1000lines HD-1080P,
 Effective pixels is 1920(H)*1080(V).
- 2.Full intelligent automatic white balance with one click(White balance and freeze buttons on the camera head)
- 3 Solving electromagnetic interference of energy platform during operation (such as ultrasonic knife, plasma knife, electrosurgical unit, etc.)
- 4.Camera head waterproof: IP8X, to prevent water from entering the camera head during the surgery.
- 5.Extinction speed is less than 0.2s, which can solve the operation delay of surgical images and reduce visual fatigue.

Technical parameters:

Specifications	Parameters		
Image Sensor	1/2.8 CMOS		
Effective pixels	1920(H)*1080(V)		
Scan mode	Progressive scan		
Horizontal resoution	1000TVL (1080P)		
Focusing range	≥(2~200)mm		
SNR	≥50dB		
Brightness	ODS adjustable		
White balance	Auto/ manual		
Min lumination	F1.2 ≤ 0.5Lux		
Certification	CE , ISO9001,ISO13485		
Video output	HDMI*4, SDI*1, BNC*1 VGA*1		

SY-GW900C-N

Medical FHD Endoscope Camera





Functions and advantages:

- Intelligent digital full HD 1100lines HD-1080P, Effective pixels is 1920(H)*1080(V). Full intelligent automatic white balance with one click(White balance and freeze buttons on the camera head)
- 2. 5 " touch LCD screen, wear-resistant, scratch resistant, fastness, quick-witted.
- 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 0.2s, which can solve the operation delay of surgical images and reduce visual fatigue.
- Professional camera head and special needs of doctors are customized to meet the needs of different departments.
- Free button and surgery mode switch button(Laparoscopy, Hysteroscopy, ENT, PTED, Urology, Fiber), OEM service.
- The color reproduction capability and image geometric distortion of this device have passed the test of relevant national institutions.

Technical parameters:

Specifications	Parameters				
Image Sensor	1/1.8 CMOS				
Effective pixels	1920(H)*1080(V)				
Scan mode	Progressive scan				
Horizontal resoution	1100TVL(1080P)				
Focusing range	≥(2~200)mm				
SNR	≥50dB				
Brightness	ODS adjustable				
White balance	AWC/MWC				
Min lumination	F1.2 ≤ 0.5Lux				
Certification	CE , ISO9001, ISO13485				
Scanning Frequency	N:60HZ P:60HZ				
Video output	VGA*1, BNC*1, HDMI*4 SDI*1				

4* HDMI outputs required for clinical applications. 1080P Intelligent digital full HD output.(1 for medical monitor;
 2 recorder or workstation port;
 3 our APP remote live broadcast)

SY-GW1000C-N

Medical Full HD Endoscope Camera





Functions and advantages:

- Intelligent digital full HD 1200lines HD-1080P,
 Effective pixels is 1920(H)*1080(V).
- Full intelligent automatic white balance with one click(White balance and freeze buttons on the camera head)
- Double 5 " touch LCD screen, wear-resistant, scratch resistant, fastness, quick-witted.
- 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 0.2s, which can solve the operation delay of surgical images and reduce visual fatigue.
- Professional camera head and special needs of doctors are customized to meet the needs of different departments.
- 4* HDMI outputs required for clinical applications.

Technical parameters:

Specifications	Parameters		
Image Sensor	1/1.8 CMOS		
Effective pixels	1920(H)*1080(V)		
Scan mode	Progressive scan		
Horizontal resoution	1200TVL(1080P)		
Focusing range	≥(2~200)mm		
SNR	≥50dB		
Brightness	ODS adjustable		
White balance	AWC/MWC		
Min lumination	F1.2 ≤ 0.5Lux		
Certification	CE , ISO9001, ISO13485		
Scanning Frequency	N:60HZ P:60HZ		
Video output	VGA*1, BNC*1, HDMI*4 SDI*1		

1080P Intelligent digital full HD output.(1 for medical monitor;

2 recorder or workstation port; 3 our APP remote live broadcast)

SY-HD7020

Medical endoscope HD USB camera 1080P





Connection:

Laptop or desktop

TO USB CABLE





Adapter

Mobile phone

TO USB CABLE



Medical monitor

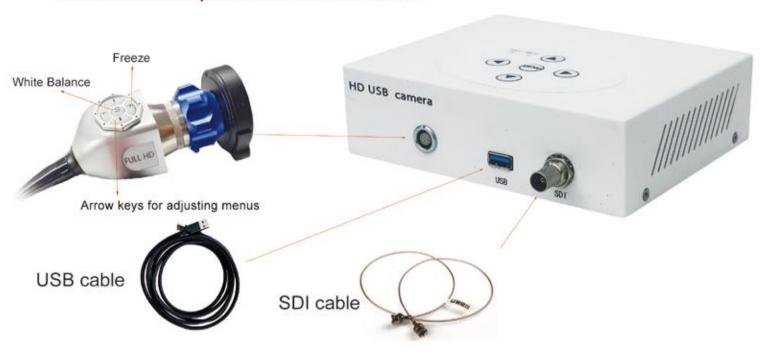
TO SDI CABLE

Technical parameters:

Specifications	Parameters
Image Sensor	1/2.8 CMOS
Scan mode	Progressive scan
Effective pixels	1920(H)*1080(V)
Horizontal resolution	1000 TVL
Brightness	ODS adjustable

SY-HD7021

Medical endoscope HD USB camera 1080P





Connection:

Laptop or desktop

TO USB CABLE



Adapter

Mobile phone

TO USB CABLE



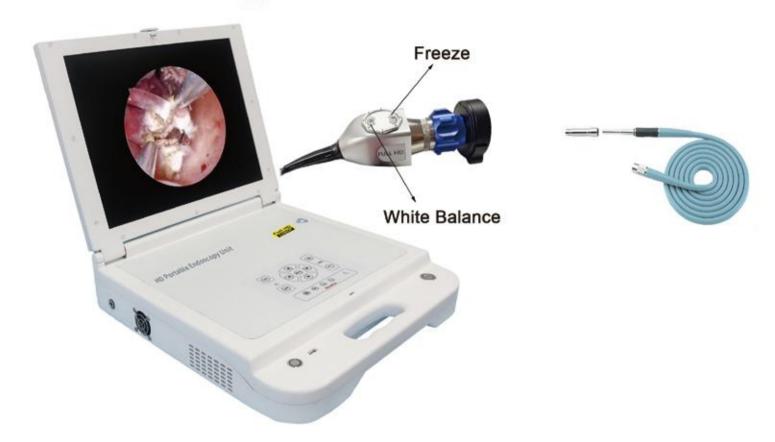
Medical monitor

TO SDI CABLE

Technical parameters:

Specifications	Parameters
Image Sensor	1/2.8 CMOS
Scan mode	Progressive scan
Effective pixels	1920(H)*1080(V)
Horizontal resolution	1100 TVL
Brightness	ODS adjustable

Portable HD Endoscope Camera Unit



- 4 in 1, camera + LED light source + monitor+ HD recorder.
- High brightness, 80watts LED.
- Medical grade HD monitor, 17 inch.
- With suitcase, easy to carry.
- Suitable for diagnosis and surgery.
- Application:Laparoscopy, Gynecology, Urology, ENT, Orthopedics, etc.





Detailed parameter as following table:

			Me	edical Monitor				
LCD screen		17"						
Color				10.7 billio	on			
Aspect Ration				5:4				
			Endosco	pe Full HD Came	ra			
Image device	- 1	1/2.8	CMOS	SNR			≥50dB	
SY		P	AL	Brightness		OD	S Adjustable	
Scanning system	2:	1 Pro	gressive	White balance		Αι	uto/MANUA	
Scanning mode	Progr	ressiv	e scanning	AG	Low/	Low/medium/high/off grade adjustable		
Horizontal Resolution		1000	DTVL	Minimum Illumination	F1.2≤0.11Lx			
OSD Control-Menu	Built	in	external	DNR	3D VOX		3D VOX	
			LED	Light Source				
Input powe	er		80VA	Light output hole	diameter	diameter φ (10±0.10) mm		
Light sourc	e	LED		Working conditions		litions 5°C ~ + 40°C		
Brightness		≥1,	200,000Lux	Storage cond	ditions	itions -40°C ~ + 55°C		
Color temperat	ture		≥6500k	Continuous working hours >4		>4h		
			F	ID Recorder				
Specifications		Parameters		External U flash o	External U flash disk Max 64G			
Recordering format		MP4		External mobile HDD Max 2T		Max 2T		
Recordering quality			18Mbs 80P 30Fps	Recorder interfac	Recorder Interface		Support USB disk & removable hard disk	

Portable HD Endoscope Camera Unit

Intelligent digital Full HD
 Effective pixels is 1920(H)*1080(V)

Multi-output: HDMI*2, SDI, CVBS, VGA, USB

 Application: Laparoscopy, Gynecology, Urology, ENT. Orthopedics, etc.

Medical Endoscope Full HD Camera
 & Medical Monitor & HD Recorder
 & LED Light Source



Detailed parameter as following table:

Medical Monitor							
LCD screen	17"						
Color		10.7 billion					
Aspect Ration		5:4					
	HD Recorder						
Specifications	Parameters	External U flash disk	Max 64G				
Recordering format	MP4	External mobile HDD	Max 2T				
Recordering quality	MAX 18Mbs @1080P 30Fps	Recorder interface	Support USB disk & removable hard disk				





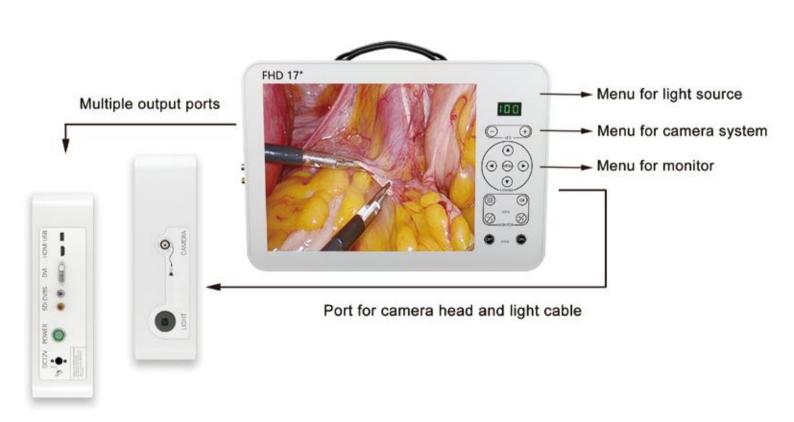
Endoscope Full HD Camera								
Image device		1/1.8 CMOS			SNR	≥50dB		
SY		PAL			Brightness	ODS Adjustable		
Total Pixels		010(H) L08(V)	P:2010(F *1118(V	1000	Backlight processing	/backl	namic(rank adjustable) ight compensation/ trong inhibition	
Effective Pixels		920(H) 080(V)	P:1920(F *1080(V		Synchronous syetem	Intern	nal Synchronization	
Scanning system		2:1 prog	gressive		White balance		Auto/MANUA	
Scan frequency		N:60HZ P:60HZ			Acutance &saturation	Turn om/off grade adjustable		
Scanning mode	Р	Progressive scanning			AG	Low/medium/high/ off grade adjustable		
Horizontal Resolution		1000TVL			Minimum IIIumination	F1.2≤0.11Lx		
Electronic shutter	1	1/50(60)S-1/60,000s			Rollovers	on/off		
OSD Control-Menu	В	Built in external			DNR	3D VOX		
			LED	Ligh	nt Source			
Input power		80	VA	Į,	Light output hole diameter		φ (10±0.10) mm	
Light source		LED			Working condition	ions 5°C ~ + 40°C		
Brightness		≥1,200,000Lux			Storage condition	ge conditions -40°C ~ + 55°C		
Color temperatu	re	≥6500k			Continuous working hours >4h			

Portable FHD Endoscope Camera Unit

- Full HD: 1920*1080P
- Multi-mode: laparoscopy, hysteroscopy, ENT, fibberscope, etc.
- Multi-language: English, Spanish, Russian, French, Portuguese
- Multi-function: take pictures, video recording, eliminate moiré, etc.
- Application: Laparoscopy, Gynecology, Urology, ENT, Orthopedics, etc.



Medical Full HD Endoscope Camera & Medical Monitor & HD Recorder & LED Light Source





Medical Monitor			
LED screen	17"		

HD Recorder						
Recordering quality	MAX 18Mbs @1080P 30Fps	External U flash disk	Max 64G			
Recordering format	MP4	External mobile HDD	Max 2T			

Endoscope Full HD Camera			
Image device	1/1.8 CMOS	SNR	≥50dB
Scan frequency	N:60HZ P:60HZ	White balance	Auto/MANUA
Total Pixels	N:2010(H)*1108(V) P:2010(H)*1118(V)	Scanning mode	Progressive scanning
Horizontal Resolution	1100TVL	Minimum IIIumination	F1.2≤0.11Lx

	LED I	Light Source	i l
Input power	100 VA	Brightness	≥1,200,000Lux
Light source	LED	Color temperature	≥6500k

Portable FHD Endoscope Camera Unit



- Full HD: 1920*1080P.
- Multi-mode: laparoscopy, hysteroscopy, ENT, fibberscope, etc.
- Multi-language: English, Spanish, Russian, French, Portuguese.
- Multi-function: take pictures, video recording, eliminate moiré, etc.
- Application: Laparoscopy, Gynecology, Urology, ENT, Orthopedics, etc.

Medical Full HD Endoscope Camera & Medical Monitor & HD Recorder & LED Light Source





Detailed parameter as following table:

	Medical Monitor
LED screen	21"

		ID Recorder	
Recordering quality	MAX 18Mbs @1080P 30Fps	External U flash disk	Max 64G
Recordering format	MP4	External mobile HDD	Max 2T

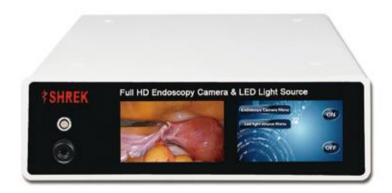
Endoscope Full HD Camera			
Image device	1/1.8 CMOS	SNR	≥50dB
Scan frequency	N:60HZ P:60HZ	White balance	Auto/MANUA
Total Pixels	N:2010(H)*1108(V) P:2010(H)*1118(V)	Scanning mode	Progressive scanning
Horizontal Resolution	1200TVL	Minimum IIIumination	F1.2≤0.11Lx

	LED	Light Source	
Input power	120VA	Brightness	≥1,200,000Lux
Light source	LED	Color temperature	≥6500k

Medical FHD Endoscope Camera Unit

- Adopt 3CCD technique, 1080 video output HD, good stereoscopic.
- Double intelligent 5" LCD touch screen, more convenient to operate
- Two buttons on camera head: F: Freeze, W: White Balance
- Multi-output: HDMI*4, SDI, BNC, VGA
- · Application: laparoscopy, hysteroscopy, arthroscopy, ENT, urology etc..





		HD Recorder	
Recordering format	MP4	Recorder interface	Support USB disk & removable hard disk

HD Endoscopy Camera				
Image device	1/2.8 (CMOS	Scan frequency	N:60HZ P:60HZ
Effective pixels	N:1920(H)* 1080(V)	P:1920(H)* 1080(V)	Horizontal Resolution	1200TVL

	LEI	D Light Source	
Input power	100VA	Light source	LED
Brightness	≥1,200,000Lux	Color temperature	≥6500K

SY-GW202L

Endoscope LED Cold Light Source



Functions and advantages:

- Imported key component: adopted imported medical LED, strong stability, good anti-seismic property.
- Long service life: working time more than
 20,000~40,000 hours, minimizing the need to replace the bulb,cost saving.
- 3. Colour temperature purity: natural light 6500k.
- High brightness, great transparency, excellent color rendering, great three-dimensional sense of the surgery.
- Good compatibility: international standard light guide cable, to connect with most of brands, like Storz, Olympus, Wolf etc.

Technical parameters:

Specifications	Parameters
Power supply	AC100-240V 50/60HZ
Light source	Led light
Effective optical power	≥100mW
Input power	60VA
Noise	≤55dB(A)
Working environment	5℃~40℃
Atmospheric pressure	860hPa~1060hPa
Host fuse	T2AL 250V AC
Light out	Diameter (10±0.30) mn

SY-GW800L-N

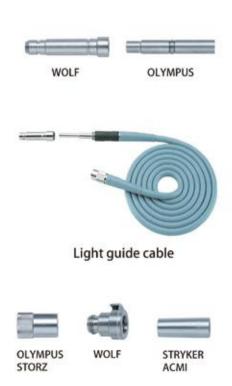
Endoscope LED Cold Light Source



- √ Imported key component: adopted imported medical LED, strong tability, good anti-seismic property.
- √ Long service life: working time more than 20,000~40,000 hours, minimizing the need to replace the bulb, cost saving.
- √ Colour temperature purity: natural light 6500k.
- √ High brightness, great transparency, excellent color rendering, great three-dimensional sense of the surgery.
- √ Good compatibility: international standard light guide cable, to connect with most of brands, like Storz, Olympus, Wolf etc.

Technical parameters:

Specifications	Parameters
Power supply	AC100-240V 50/60HZ
Light source	Led light
Effective optical power	≥100mW
Input power	80VA
Noise	≤55dB(A)
Working environment	5℃~40℃
Atmospheric pressure	860hPa~1060hPa
Host fuse	T2AL 250V AC
Light out	Diameter (10±0.30) mn



SY-GW1000L-N

Endoscope LED Cold Light Source





Functions and advantages:

- 5 intelligent touch LCD screen reinforced tempered glass, wear-resistant, scratch resistant, super sensitive control.
- Color temperature 6000±500K, natural light, no stray lights, great transparency, excellent color rending, great three-dimensional sense of the surgery.
- Imported key component: adopted medical imported
 LED module, strong stability good anti-seismic property.
- Long working life, it is more than 20 ,000-40,000 hours, no need to change bulbs frequently, cost saving.
- Avoiding bulb failure during the operation, which will affect the operation progress and ensure the operation quality and safety.

Technical parameters:

Specifications	Parameters
Power supply	AC100-240V 50/60HZ
Light source	Led light
Effective optical power	≥100mW
Input power	100VA
Noise	≤55dB(A)
Working environment	5°C~40°C
Atmospheric pressure	860hPa~1060hPa
Host fuse	T2AL 250V AC
Light out	Diameter (10±0.30) mm

Good compatibility: International standard light guide cable, to connect with most of brands, like Storz, Olympus, Wolf etc.

FHD Medical Monitor



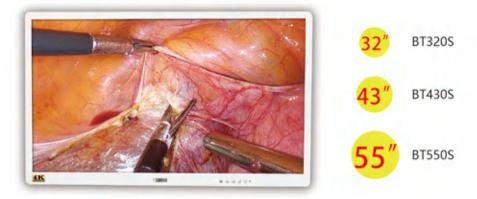
Monitor adopts the latest LED backlight drive technology and high performance I/P conversion. It only needs 5ms speed response time and no delay .

1080P HDMI output interface which makes visual effect clearer. 10.7 billion colors, more natural ,real and delicate image.

Top LED LCD, 178° ultra-wide angle of view omnibearing color reproduction display. With AR anti-glare layer.

Product name	15"Monitor	21"Monitor	24"Monitor	27"Monitor
Display size	304(H)*228(V)mm	517(H)*325(V)mm	518.4(H)*325(V)mm	535(H)*428(V)mm
Dot pitch(diagonal)	0.297(V)*0.297(H)mm	0.297(V)*0.297(H)mm	0.297(V)*0.297(H)mm	0.297(V)*0.297(H)mm
Maximum resolution	1024 x 768	1920 x 1080P	1920 x 1080P	1920 x 1080P
Display color	16.2M	8-bit	10-bit	10-bit
Contrast	700: 1	1000: 1	1000: 1	1300: 1
Brightness	450 cd/ m ²	700 cd/ m ²	700 cd/ m ²	700 cd/ m ²
Response time	8ms	8ms	8ms	8ms
Viewing angle (CR≥10)	178° (H) 178°(V)	178° (H) 178°(V)	178° (H) 178°(V)	178° (H) 178°(V)
Power	60W	70W	80W	90W
Signal interface	BNC, DVI, DP, VGA, USB, BNC, DVI, DP, VGA, USB, SDI			
Input voltage	100-240VAC, 50-60Hz, 1.4A 12V=8.5A,102W MAX			
Working environment	Temperature 5°C-45°C Humidity5%-95%			

4K UHD Medical Monitor



Advantages:

It has an oversized surgical field that allows doctors to see the whole picture and reduces the need for nurses to move back and forth looking for positions.

Noise suppression enhances the image quality and purity.

The suppression of strong light and the compensation of weak light make the image smoother.

Stronger smoke penetration capability makes surgery easier to operate.

Images with greater depth of field prevent the doctor from adjusting the focus back and forth, greatly reducing the surgery time.

Product name	4K 32"Monitor	4K 43''Monitor	4K 55"Monitor
Display size	698.4(H)*392.85(V)mm	941.184(H)*529.416(V)mm	1209.6(H)*680.4(V)mm
Dot pitch(diagonal)	0.36375(V)*0.12125(H)mm	0.297(V)*0.297(H)mm	0.297(V)*0.297(H)mm
Maximum resolution	3840×2160 UHD	3840×2160 UHD	3840×2160 UHD
Display color	10-bit	10-bit	12-bit
Contrast	1400: 1	1400: 1	1400: 1
Brightness	700 cd/ m ²	700 cd/ m ²	1000 cd/ m ²
Response time	6ms	6ms	6ms
Viewing angle (CR≥10)	89/89/89/89 (Min.)	89/89/89/89 (Min.)	89/89/89 (Min.)
Power	100W	120W	150W
Signal interface	HDMI、DVI、DP、VGA、 USB	DVI, HDMI, DP, VGA, USB	DVI, HDMI, DP, VGA, USB
Input voltage	100-240VAC, 50-60Hz, 1.4A 12V=8.5A,102W		
Working environment	Temperature 0°C-50°C	Humidity5%-95%	

CO₂ Insufflator



High pressure tube with gaspurification and decompression function

Function Characteristic:

External CO2 gas filter

Technical Parameters:

Use MOTORALA pressure sensor , three - way pressure observe and control ,

large flow air supply. Long life, safe and reliable.

- Fully automatic, quiet operation
- Automatic safety alarm function

Supply voltage : AC110~230V Range of flw : 10~30L/min Power : 40VA Noise : ≤50dB

Range of press : 5~25mmHg

- 3 level flow rate
- Pulse gas supply design for great safety
- Dual gas filtering and decompression design

Decompression watch	Pressure tube	Filter	Pneumoperitoneum needle
High pressure watch	Silicone tube	Connector	Insufflator connecter

SY-GWQ400 CO₂ Insufflator



High pressure tube with gaspurification and decompression function



Technical Parameters:

Power supply: AC100~240V Power frequency: 50Hz

Power: 120VA Fuse: T2AL250V

Environment temperature: 10°C~40°C

Performance indicators:

- 1. With heating function
- 2.Gas pressure control range: 5~25mmHg
- 3. Pressure control precision: 2mmHg
- 4.Gas velocity range: 0~40L/min, variable speed
- 5.Gas velocity allowance: 20%
- Pressure alarm: it provides a sound alarm When the Cylinder pressure is lower than 0.3MPa.

Function Characteristic:

- · Variable speed of flow
- · Light and acoustic alarm,safe and reliable
- · Long life, stable property

 Large LCD display, with heating function, large flow output

Decompression watch	Pressure tube	Filter	Pneumoperitoneum needle
High pressure watch	Silicone tube	Connector	Insufflator connecter

CO₂ Insufflator



High pressure tube with gaspurification and decompression function



Technical Parameters:

Power supply: AC100~240V Power frequency: 50Hz

Power: 120VA Fuse: T2AL250V

Environment temperature: 10°C~40°C

Performance indicators:

1. With heating function

2.Gas pressure control range: 5~30mmHg 3.Pressure control precision: 2mmHg

4.Gas velocity range: 10/20/30/40/50/55L/min

5.Pressure alarm: it provides a sound alarm When the Cylinder

pressure is lower than 0.3MPa.

Function Characteristic:

- · Variable speed of flow
- Light and acoustic alarm, safe and reliable
- Long life,stable property

- 7" LCD screen, more convenient, more accurate and smarter to operate
- · With heating function

Decompression watch	Pressure tube	Filter	Pneumoperitoneum needle
High pressure watch	Silicone tube	Connector	Insufflator connecter

Endoscopy Pump



Products introduction:

Washing and suction the effluent or fragment in the enterocoelia surgery

Function Characteristic:

Irrigate and suction alternately

Large flow

Adjusted irrigate and suction pressure as the need

Reflux prevention to prevent the effluent into the pump

Technical Parameters:

Supply voltage: 110~230V 50HZ

Power: 50VA

Range of pos-pressure: 10~50kPa

Range of neg-pressure: -50~-10kPa

Noise: <= 70dB



SY-GWG200 Irrigation Pump



- Used in orthopaedics, Gynecology and Urology systems
- Sterile tubing sets with sensor
- Emulsion tube and shim are replaceable
- · High sensitivity pressure sensor

Function Characteristic:

Use roller pump to get large flow, irrigation tube can be autoclavable sterilization to avoid secondary pollution.

Pressure is adjustable on request and real time monitored.

Technical Parameters:

Supply voltage: 110 ~230V 50HZ

Power: 150VA

Range of press: 15~400mmHg(2~53.3kPa)

Range of flw: 0.1~1.0L/min

Noise : ≤70dB



SY-GWGX200

Irrigation Pump with suction



- Used in Orthopaedics , Gynecology and Urology systems
- · Sterile tubing sets with sensor
- Emulsion tube and shim are replaceable
- High sensitivity pressure sensor
- With suction function

Function Characteristic:

Use roller pump to get large flow , irrigation tube can be autoclavable sterilization to avoid secondary pollution.

Pressure is adjustable on request and real time monitored.

Technical Parameters:

✓ Irrigation Pressure Rangee : 50-400mmHg (6.7-53.3kPa)

✓ Irrigation Flow Range : 0.1-1.2L/min

✓ Suction Pressure Range : 5-30kPa

✓ Power : ~100-240V,50/60Hz

✓ Input Power : 100VA

✓ Total Noise of the Host : ≤50dB.



SY-R100

Full HD video recorder



Easy to carry and connect.

Imported aluminum & independent protective device of power.

Can connect with any endoscope camera system.

Apply to gynecology, ENT, obstetrics, urology, orthopedics, chest surgery, general surgery, etc.

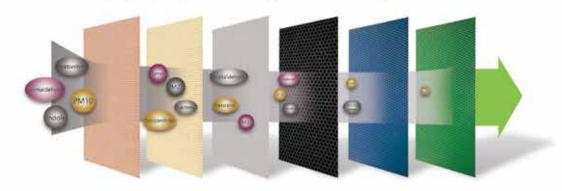
Can record HD&SD videos. (HDMI & BNC signal)
High-quality HD recorder helps to show
the surgery process actually.
Can used for experts to do
academic exchange and report.

Specifications	Parameters	
Recording format	MP4	
Recording quality	MAX 18Mbs@1080P 30fps	
Recording interface	USB disk and Removable hard disk MAX 128G	
External U flash disk		
External mobile HDD	MAX 2T	
Input signal	BNC, HDMI	
Output signal	HDMI	
Resolution	Input/output/Record	
	720×480 (60p) , 720×576 (50p)	
	1280×720 (50p) , 1280×720 (50p)	
	1920×1080 (50i) , 1920×1080 (60i)	
	1920×1080 (24p) , 1920×1080 (25p)	
	1920×1080 (30p) , 1920×1080 (50p)	
	1920×1080 (60p)	

Intelligent Fume-extracting System



- 1.Keep the surgery image clearly visible, accurately determine the cause of the tissue, smokeless interference accurately determine the cause of tissue, no smoke interference.
- 2.Intra-abdominal surgery to purify smoke and prevent harmful gases.

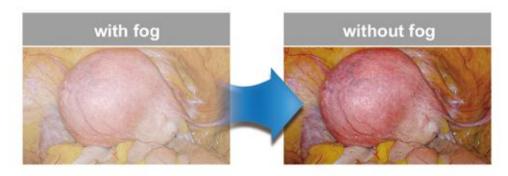


Specifications	Parameters
Power	AC110~230V
Frequency	60HZ
nput power	60VA
Control method	Capacitive touch
Display method	5 "LCD display
Noise	≤70dB
iltration system	Custom filter
Smoking stall	3 stall
Service life	average of 20 surgeries
Size	L*W*H 340*350*108mm
Default flow	1L/min
Accessory	Intake hose/Single pedal

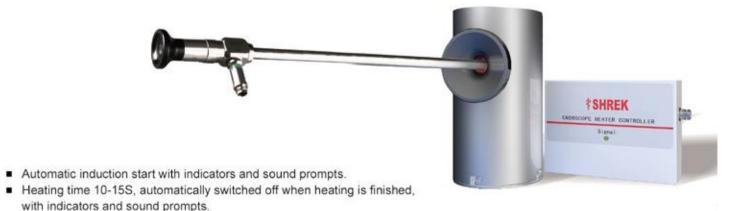


SY-GW722 Endoscopy Heater

With the development of modern medical technology, minimally invasive surgery is widely carried out clinically, and laparoscopic surgery is an important part of minimally invasive surgery. Clear surgical visibility is key to the safety of laparoscopic surgery, so anti-fog treatment of laparoscopic lenses is essential. In the process of endoscopy surgery, due to the difference between the cavity temperature and external temperature, some water vapor encountered cold laparoscopic lens easily condensed to form a layer of fog, affecting the clarity of the field presented on the display.



Over the years, the clinical use of traditional lens warm-up method for anti-fog treatment, but in practice, the method often occurs hot saline sprinkling, scalding, lens tip-over and other phenomena, increasing the chances of intraoperative contamination and lens damage.



- Temperature protection.
- The temperature does not exceed 55 degrees during heating, effectively protecting the life of endoscope.
- Dedicated disinfect basket is optional.
- Portable suitcase, easy to carry, and protect product effectively.

Cleaning Machine

Application:

SY-GW6211 is mainly used for the cleaning of vessels and metal surgical instruments in the hospital.

Component:

Host, water cannon, high-pressure air gun, multi-functional nozzle, quick connector, pipeline system, control system filter, and tap.











Parameter:

Specifications	Parameters	
Output air pressure	0.4MPa±20%	
Output water pressure	0.35MPa±20%	
Rate of work	800VA	
Power	AC110~220V 50HZ	
Environment temperature	5℃~40℃	
Relative humidity	≤80%	
Barometric pressure	(700~1060) hpa	
Noise	≤70dB	



- SY-ENT0722A is the most popular ENT treatment unit. It has a large table surface and extra cabinet and drawers for placing ENT computer station, printer and documents. For small clinic room, doctor doesn't need to place another work desk, SY-ENT0722A is a economic solution.
- To fulfill most ENT diagnose application, SY-ENT0722A is designed to be able to attach various of medical equipment, for extending functionality, like ENT patient chair, endoscope camera, cold light source, medical monitor, etc.

Accessories				
Metal host	1	Compressor	1	
Electronic control system	1	Vacuum pump	1	
Hiccup damper	1	Instrument tray	2	
Spray gun	3	Ointment jar	3	
Blow gun	1	X-ray viewing lamp bracket	1	
Suction gun	1	Endoscope integrated machine bracket	1	
Endoscope defogger	1	Sewage collection system	1	
LED inspection light	1	LED backlit X-ray viewing lamp	1	
Total height:1560mm		Table size:1600* 600* 780mm		

SY-ENT0725A

ENT treatment unit



Advantage:

- ✓ Touch screen operation
- Automation control system
- ✓ Built-in noise insulation design
- ✓ Spray gun/blow gun/suction gun system
- Laryngoscope pre-heating
- Blow off system
- Swivel doctor stool
- Manual patient chair

Composition of the ENT treatment table:

Accessories				
Metal host	1	Compressor	1	
Electronic control system	1	Vacuum pump	1	
Hiccup damper	1	Instrument tray	2	
Spray gun	3	Ointment jar	3	
Blow gun	1	X-ray viewing lamp bracket	1	
Suction gun	1	Endoscope integrated machine bracket	1	
Endoscope defogger	1	Sewage collection system	1	
LED inspection light	1	LED backlit X-ray viewing lamp	1	
Table size:1600* 600* 780cm, G.W:250kg				

FHD Endoscope Camera:

Specifications	Parameters
Image Sensor	1/1.8 CMOS
Effective pixels	1920(H)*1080(V)
Scan mode	Progressive scan
Horizontal resoution	1000TVL (1080P)
Focusing range	≥(2~200)mm
SNR	≥50dB
Brightness	ODS adjustable

LED Light Source:

Specifications	Parameters
Light out	Diameter (10±0.30) mm
Light source	Led light
Effective optical power	≥100mW
Input power	100VA
Noise	≤55dB(A)
Working environment	5°C~40°C
Atmospheric pressure	860hPa~1060hPa

Shanghai Shiyin Photoelectric Instrument Co.,Ltd.

Tel: +86 021-58189111 Website: www.shshrek.com

Address: Building 5A, No. 9628, Hunan Road, Pudong New Area, Shanghai, China



Composition:

SY-DG300

Arthroscopy shaver

The host Operating handle Cutting tools Foot switch forward reverse reciprocate button

- Equipped with the most advanced brushless motor in the world, themaximum speed can reach 12000RP
- Supports dual-channel operation at the same time.
- The handle supports high and low speed switching.
- Supports handle and foot pedal control equipment operation.
- Supports high temperature and high pressure, low temperature plasma sterilization.
- The foot pedal can achieve infinite speed adjustment, waterproof IPX8.

Blades:

Grinding head Φ5.9*130mm

• Connect to grinding head:

Speed: 500~12000RPM

Cutting head Φ4.2*130mm

Connect to cutting head:

Forward, reverse: 100~6000RPM

Reciprocate: 100~3000RPM

Specifications	Parameters
Input voltage	220VAC
Input frequency	50Hz
Input power	650VA
Handle weight	Less than 630g (excluding cable)
Disinfection and sterilization method	High temperature and high pressure steam sterilization/low temperature plasma sterilization
Display	Touch screen
Interface	Power socket, foot switch interface, RS232 interface, handle interface A, handle interface B, USB interface, Ethernet interface.
Electric shock protection type	Class I
Working mode	Continuous operation
Working temperature	5°C~40°C
Working humidity	30%~80%, non-condensing
Working atmospheric pressure	700hPa ∼ 1060hPa

Shanghai Shiyin Photoelectric Instrument Co.,Ltd.

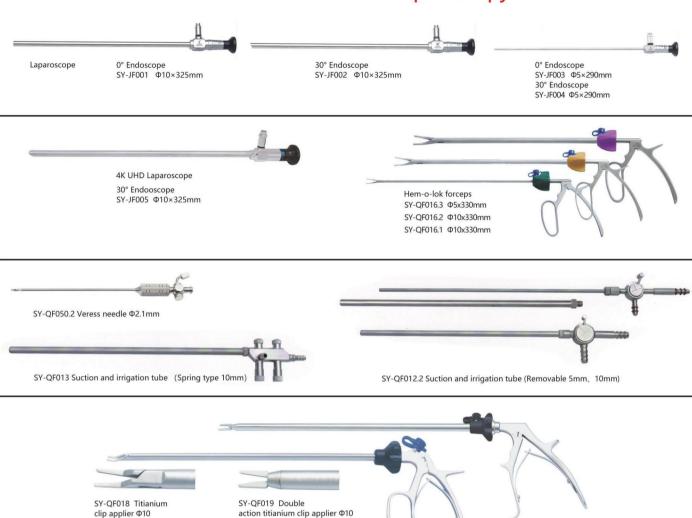
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Laparoscope

Laparoscopy hand instruments









SY1108 Right angle titianium

clip applier Φ10

SY-EH001.2 Plastic clip M



SY-EH001.3 Plastic clip S



SY-QF017 Single action titianium

clip applier Φ5

SY-EH002.1 Clip S



SY-EH002.2 Clip M



SY-EH002.3 Clip ML



SY-EH002.4 Clip L



SY-QF037.4 Sealing cap Ф5mm



SY-QF037.5 Sealing cap Φ10mm



SY-QF037.6 Sealing cap Ф12.5mm



SY-QF038.1 Cross-shaped sealing cap Φ5mm



SY-QF038.2 Cross-shaped sealing cap Φ10mm

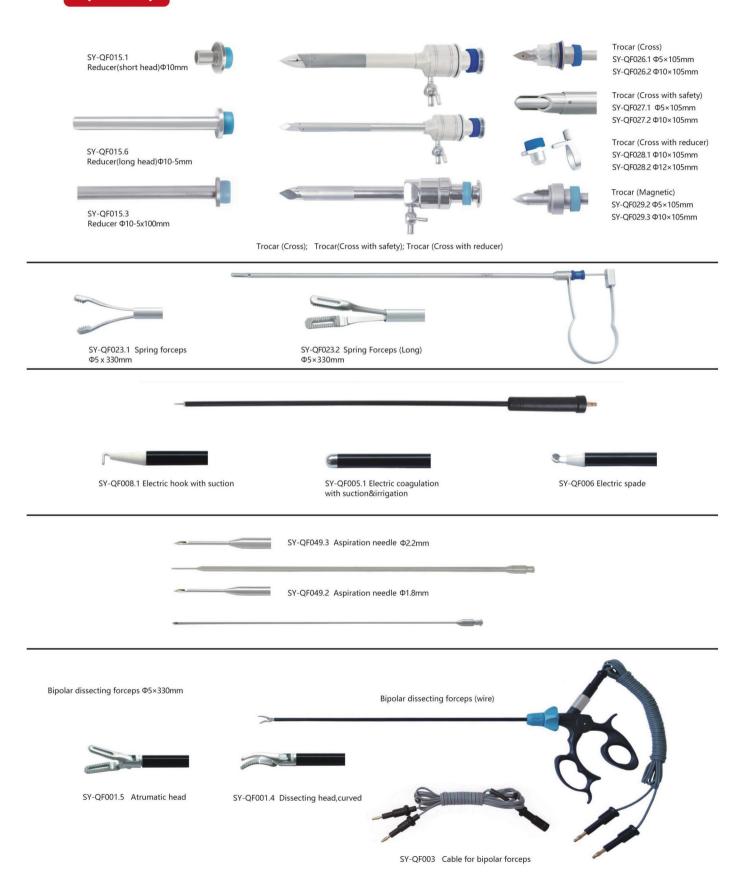


SY-QF135.1 Sealing ring Φ5mm

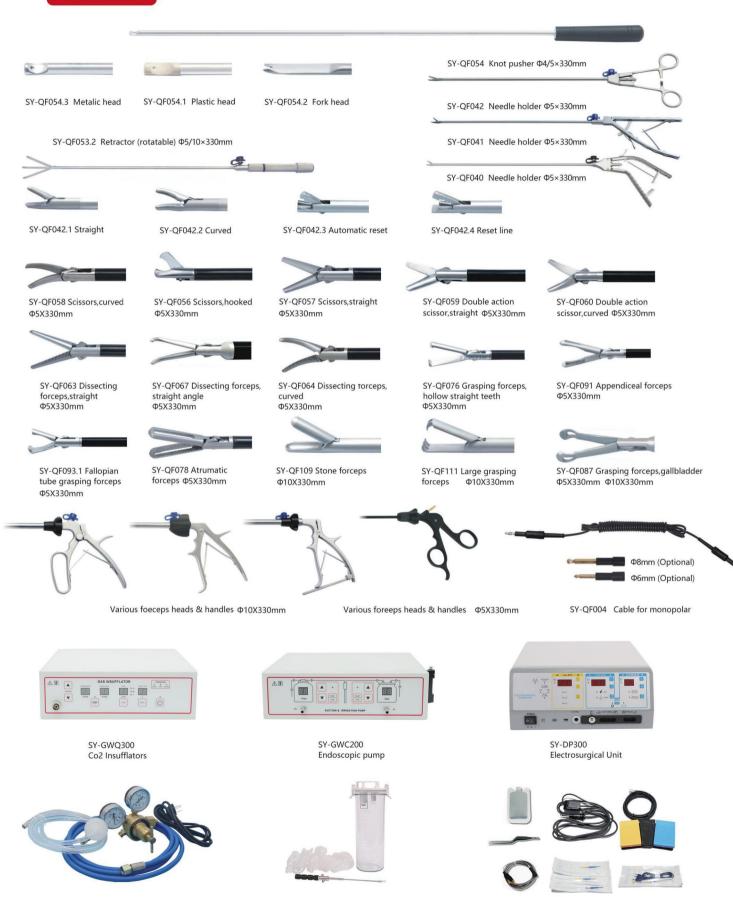


SY-QF135.2 Sealing ring Ф10mm

Laparoscope



Laparoscope



China . Shanghai SHREK endoscopy

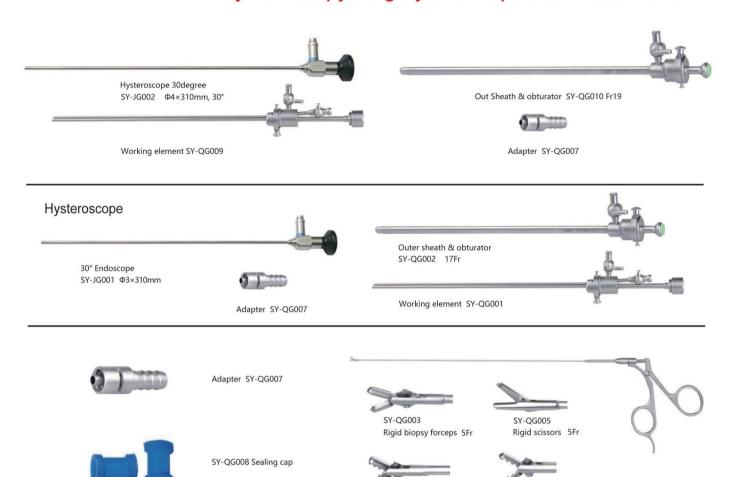
Laparoscope

Morcellator (SY-ZMO-1)



Gynecology

Hysteroscopy surgery and inspection instruments



SY-QG004

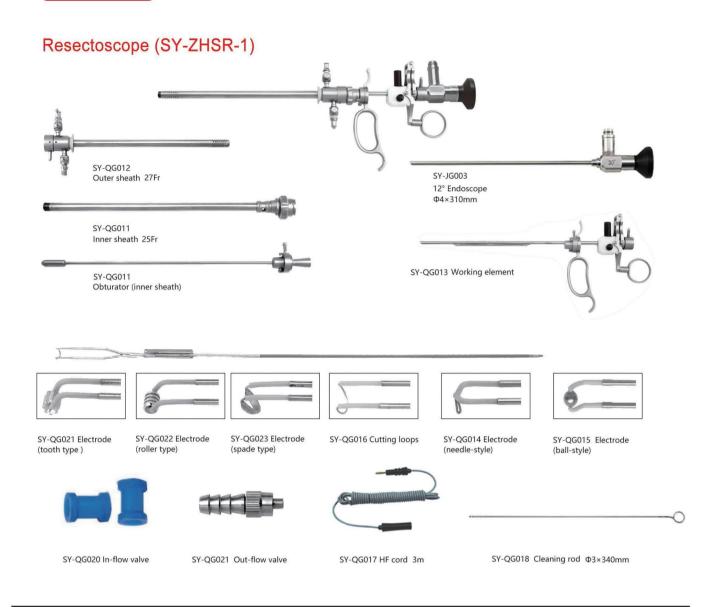
Flexible biopsy forceps 5Fr

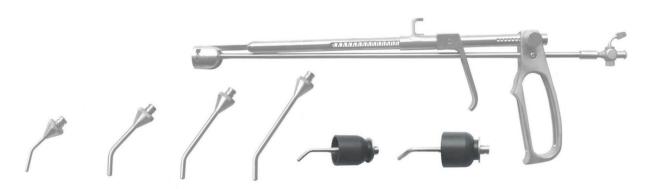
SY-QG006

Rigid Barb-hobing forceps 5Fr



Gynecoscopy

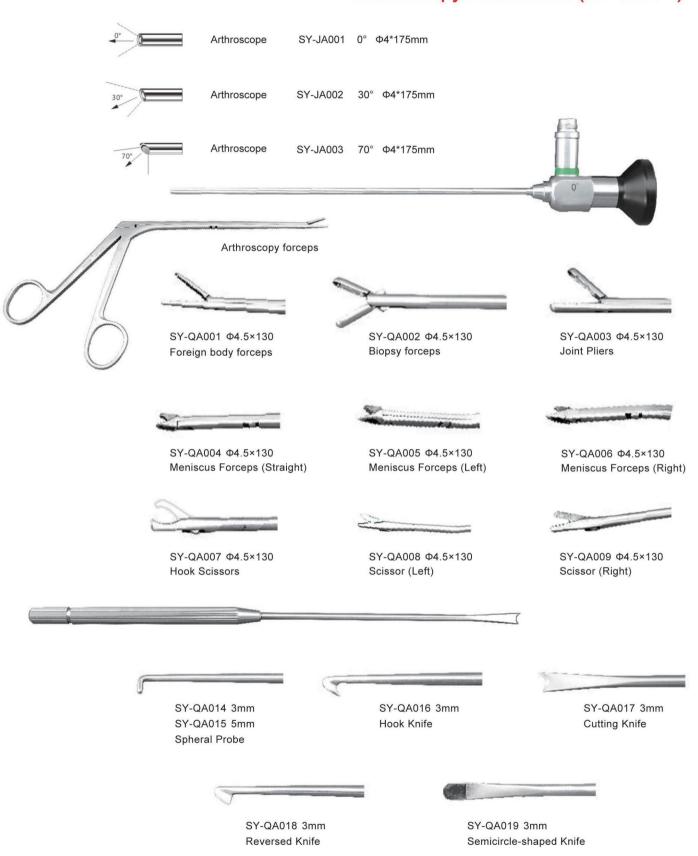




Multifunction uterine manipulator SY-QF011

Arthroscope

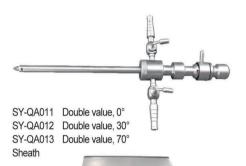
Arthroscopy instruments (SY-ZAR-1)



Arthroscope



SY-QA010 Φ4.5×130 Sheath

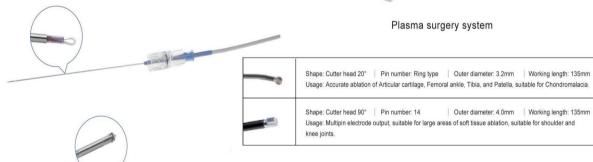




Shaver SY-DG100







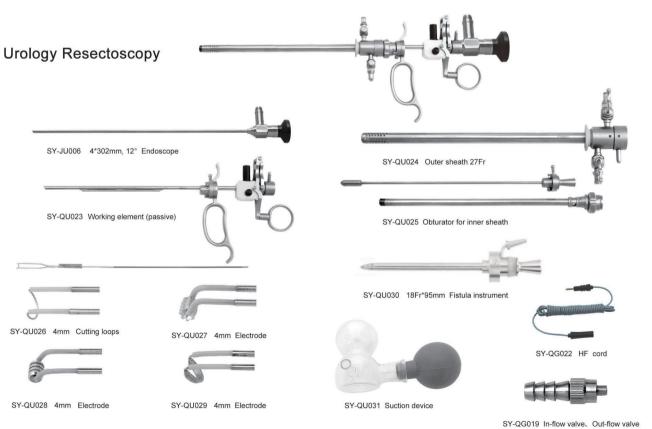


	Shape: Cutter head 90° Pin number: 18 Outer diameter: 4.0mm Working length: 135mm Usage: Multipin electrode output, suitable for large areas of soft tissue ablation, suitable for shoulder and knee joints	
- AHHY	Shape: Cutter head 30° Pin number: 7 Outer diameter: 2.8mm Working length: 82mm Usage: Designed for Arthroscopy of the wrist, ankle, and elbow joints to improve surgical efficiency.	
	Shape: Cutter head 45° Pin number: 12 Outer diameter: 3.6mm Working length: 135mm Usage: Gasification, cutting and hemostasis of the knee synovium and the stenosis of the posterior horn of meniscus.	

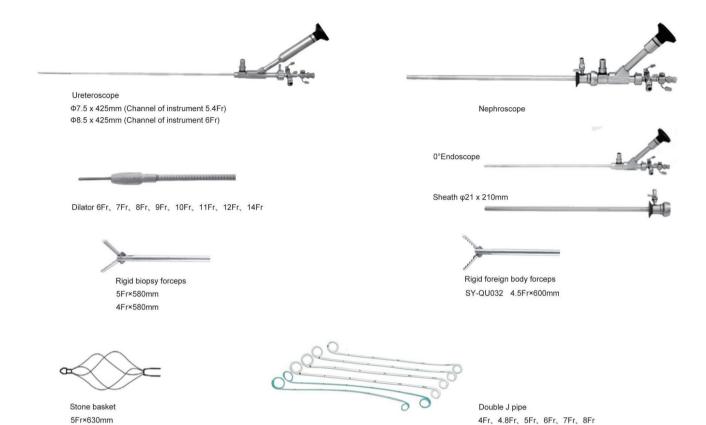
Urology

Urology surgery and inspection instruments





Urology





Minimally dilator drainage set Dilator:8Fr、10Fr、12Fr、 14Fr、16Fr、18Fr、20Fr、22Fr、24Fr Peeling sheath: 14Fr、16Fr、18Fr、20Fr、22Fr、24Fr Sheath:10Fr、12Fr、14Fr Drainage tube:8Fr、10Fr、 12Fr、14Fr、16Fr、18Fr、20Fr、22Fr







Pneumatic impact crusher

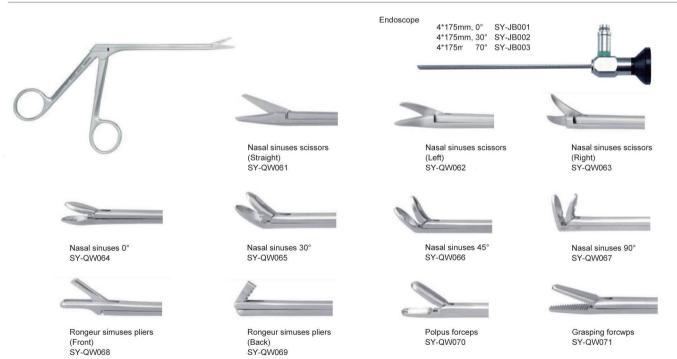




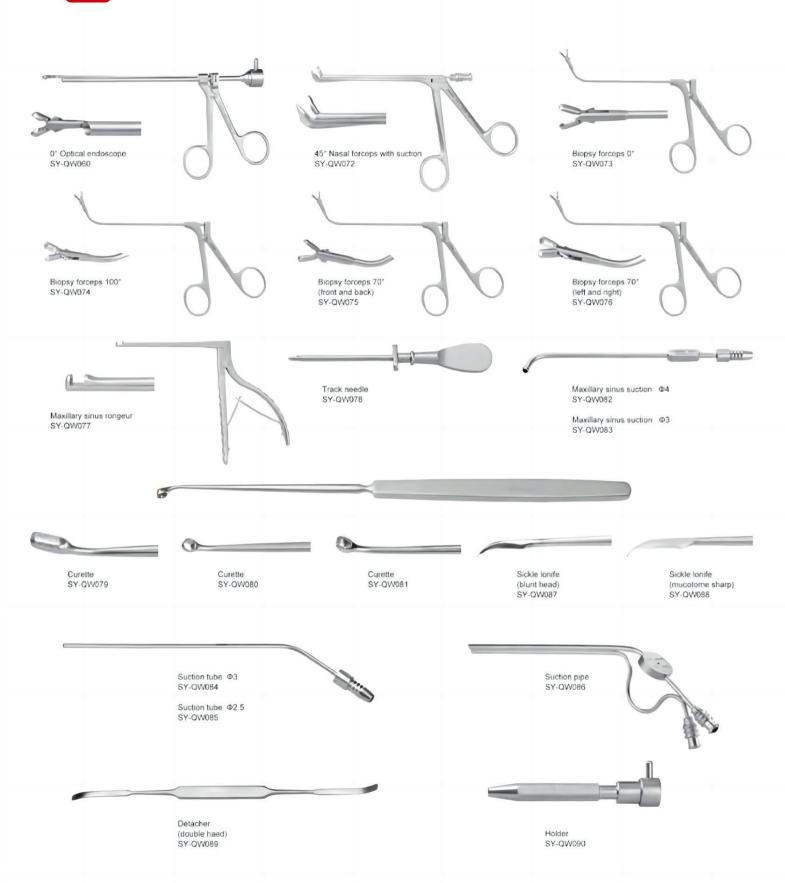
ENT surgery and inspection instruments











\$SHREK-SHIYIN-MEDICAL

Laparoscope, Hysteroscope, Arthroscope, ENT, PTED(percutaneous transforaminal endoscopic discectomy), MED(Micro Endo Disc System), Cystoscope, Percutaneous nephroscope, Ventriculoscope, Proctoscope, Sigmoidoscopy/proctosigmoidoscope, Urology resectoscope, Hairdressing Magnifer, Bromhidrosis endoscope, Breast implant endoscope, Thoracoscope, Fibrolaryngoscope, Fiber choledochoscope, Fiber bronchoscope, Fiber ureteroscope, TAPP hemia repair, lacrimal passage, Minimally invasive varicose veins, etc.

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