



**FULL HD ENDOSCOPE CAMERA SYSTEM COMPLETE SOLUTION**



Shanghai Shiyin Photoelectric Instrument Co., Ltd.

# COMPANY PROFILE

We provide professional complete solution for minimally invasive surgery.

Shanghai Shiyin Photoelectric Instrument Co., Ltd provides total Solutions for professional medical monitor, full HD endoscope camera system, LED cold light source, instruments, endoscope workstation and so on. Besides, we can also provide portable camera system and OEM service. Located in Shanghai Nanhui Industrial Park, we are a medical industry company on R&D, production and sale. Founded in 2009, till now, we Dedicated to science and technology innovation. Enhance the innovation stimulating mechanism, develop and use medical remote control after-sales service. Increases competitive power of enterprises by cooperating with foreign manufactures. At the same time, provide maintenance of all brands of endoscope camera, rigid endoscope, video endoscope and medical equipment for free. We stress the ways companies benefit society simply by helping customers solving problem.

Our company will be conscientiously implement and observe business regulations. Company policy : market as be realistic and pragmatic, Forge Ahead, continued cooperation. "Blaze New Trails, Focus on Quality, High Integrity Services" for the company purpose. To promotethe development of the micro-invasive medical instrument, building a medical equipment brands, serves for human health. Our principle business includes all kinds of medical endoscope camera system and accessories, LED medical cold light source, monitor, trolley, medical workatation, gas Insufflator, Irrigation pump, all kinds of rigid endoscope, instruments and related consumable. What's more, we also supply custom-made service to fulfill customer demand.

*We provide professional complete  
solution for minimally invasive surgery.*



# SY-GW1000C-T

## Intelligent digital full HD Endoscope camera



### Functions and advantages:

1. Intelligent digital full HD 1200lines 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. Double 5 " touch LCD screen, wear-resistant, scratch resistant, fastness, quick-witted.
4. Solving electromagnetic interference of energy platform during operation ( such as ultrasonic knife, plasma knife, electrosurgical unit, etc.)
5. Camera head waterproof: IP8X, to prevent water from entering the camera head during the surgery.
6. Extinction speed is less than 0.2s, which can solve the operation delay of surgical images and reduce visual fatigue.
7. Professional camera head and special needs of doctors are customized to meet the needs of different departments.
8. 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)

### Technical parameters:

Specifications	Parameters
Image Sensor	1/2.8 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 lamination	F1.2 ≤ 0.5Lux
Certification	CE , ISO9001, ISO13485
Scanning Frequency	N:60HZ P:60HZ
Video output	VGA*1, BNC*1, HDMI*4 SDI*1





## Our products :

**One year replacement Three years warranty**

Application: Arthroscopy, ENT, PTED, Cystoscopy, Percutaneous Nephrolithotomy, Ventriculoscopy, Hysteroscopy, proctoscopy, Sigmoidoscopy, Resectoscopy(Urology&Gynecology), Plastic surgery, Laparoscopy, Breast augmentation, Thoracoscopy , fiber nasopharyngoscope, fiber bronchoscopy, fiber ureteroscopy, APP hernia repair, etc complete minimally invasive solutions.

**Certificates: CE, ISO9001, ISO13485**



# SY-GW900C-T

## Intelligent digital full HD Endoscope camera



### Functions and advantages:

1. Intelligent digital full HD 1100lines HD-1080P, Effective pixels is 1920(H)\*1080(V).
2. 5 " touch LCD screen, wear-resistant, scratch resistant, fastness,quick-witted.
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.
6. Professional camera head and special needs of doctors are customized to meet the needs of different departments.
7. The color reproduction capability and image geometric distortion of this device have passed the test of relevant national institutions.
8. 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)

### Technical parameters:

Specifications	Parameters
Image Sensor	1/2.8 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



## Our products :

**One year replacement Three years warranty**

Application: Arthroscopy, ENT, PTED, Cystoscopy, Percutaneous Nephrolithotomy, Ventriculocopy, Hysteroscopy, proctoscopy, Sigmoidoscopy, Resectoscopy(Urology&Gynecology), Plastic surgery, Laparoscopy, Breast augmentation, Thoracoscopy , fiber nasopharyngoscope, fiber bronchoscopy, fiber ureteroscopy, APP hernia repair, etc complete minimally invasive solutions.

**Certificates: CE, ISO9001, ISO13485**

# SY-GW800C-N

## Medical Full HD endoscope camera



### Functions and advantages:

- 1.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





## **Our products :**

**One year replacement Three years warranty**

Application: Arthroscopy, ENT, PTED, Cystoscopy, Percutaneous Nephrolithotomy, Ventricul-  
oscopy, Hysteroscopy, proctoscopy, Sigmoidoscopy, Resectoscopy(Urology&Gynecology),  
Plastic surgery, Laparoscopy, Breast augmentation, Thoracoscopy , fiber nasopharyngoscope,  
fiber bronchoscopy, fiber ureteroscopy, APP hernia repair, etc complete minimally invasive  
solutions.

**Certificates: CE, ISO9001, ISO13485**

# SY-GW700C

## Medical endoscope camera



### Functions and advantages:

1. Standard 700lines, effective pixels is 752(H)\*582(V).
2. Full intelligent automatic white balance(Patented technology: no one step white balance, don't need adjust white balance every time when you turn on it. Save operation time. Natural Color Technology
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

### Technical parameters:

Specifications	Parameters
Image Sensor	1/3 CCD
Effective pixels	752(H)*582(V)
Scan mode	Interlacing scan
Horizontal resolution	700TVLines
Focusing range	≥(2~200)mm
SNR	≥50dB
Brightness	ODS adjustable
Video output	BNC*2, VGA
Min illumination	F1.2 ≤ 0.5Lux
Certification	CE , ISO9001,ISO13485



**Our products :**

**One year replacement Three years warranty**

Application: Otolaryngology, ENT, Cystoscopy, Hysteroscopy, Arthroscopy, PTED, etc.

**Certificates: CE, ISO9001, ISO13485**



## NEW 3D Digital full HD endoscope camera system



Application: Laparoscope, Arthroscope, ENT, PTED(percutaneous transforaminal endoscopic discectomy), Sigmoidoscope, Ventriculoscope, Urology resectoscope, Plastic surgery endoscope, APP hernia repair, Breast implant endoscope, Thoracoscope, Hysteroscope, Fiber choledochoscope, Lacrimal passage, Minimally invasive varicose veins, etc.

### Partial cases of 3D laparoscopic surgery



## Definition of 4K Ultra HD

The "UHD" standard released by the International Telecommunication Union (ITU), with a physical resolution of 3840x2160 (4Kx2K) and above, which is called Ultra HD. It is twice the width and height of the Full HD (1920X1080) and four times of the area.

**4K resolution is 4 times of 1080P**  
 $3840 \times 2160 = 1920 \times 2 \times 1080 \times 2$



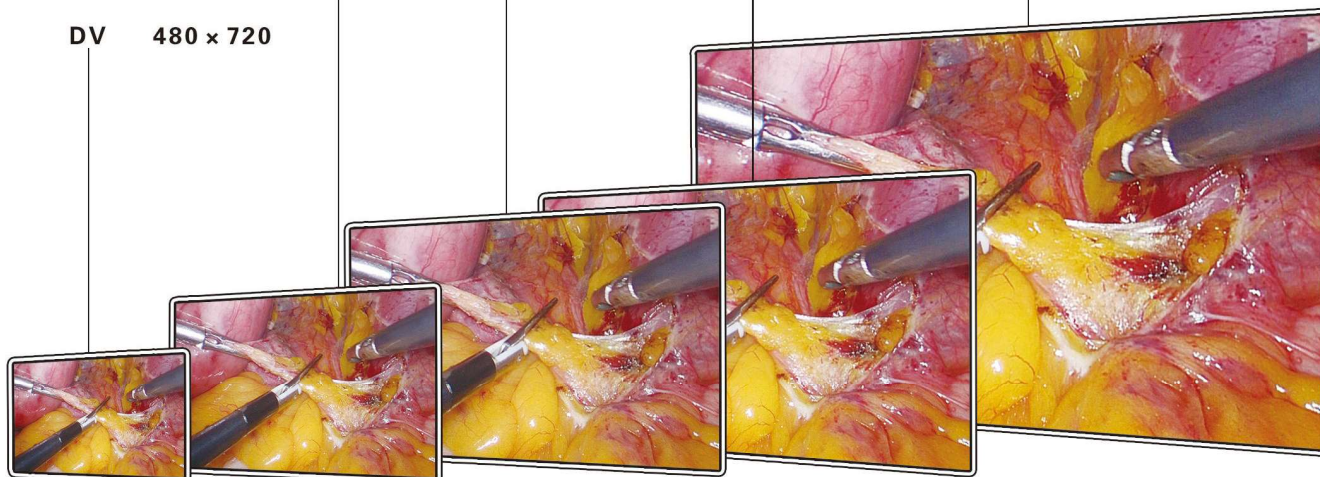
**4K 2160 × 3840**

**2K 1152 × 2048**



**1080P 1080 × 1920**

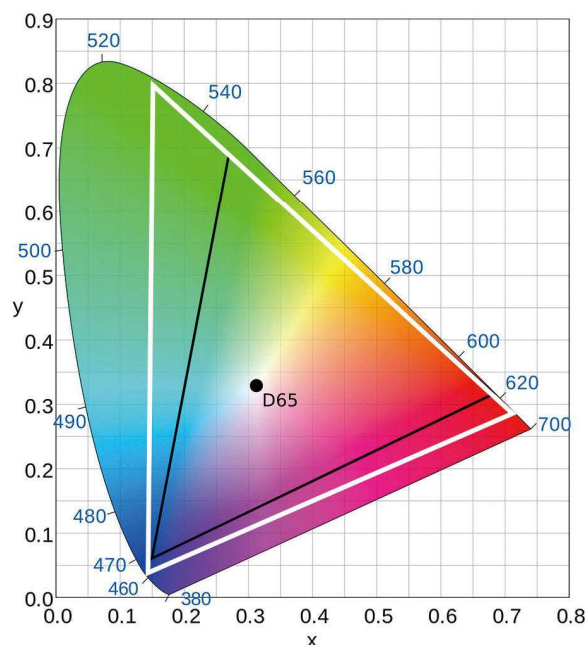
**720P 720 × 1280**

**DV 480 × 720**





Name	Pixel layout	Resolution	Pixel number
FHD		1920xRGB (3)x1080 1 pixel = 3 seed pixels (R,G,B)	6.2M Colors
UHD (4Kx2K) RGB		3840xRGB (3)x2160 1 pixel = 3 seed pixels (R,G,B)	24.9M Colors (=FHDx4)



### Advantages of 4K Ultra HD

**Core image:** CMOS sensor:1/1.8 Original imported sensor parts, processor: More than 8 million Ultra HD processing system

**Ultra Clear Coating:** Ultra high resolution  $\geq(3840 \times 2160)$  Real color, Ultra Clear Coating, super delicate

**More precise:** More meticulous observation of histopathology and vascular to operation. Real field of view can effectively improve visibility during surgery

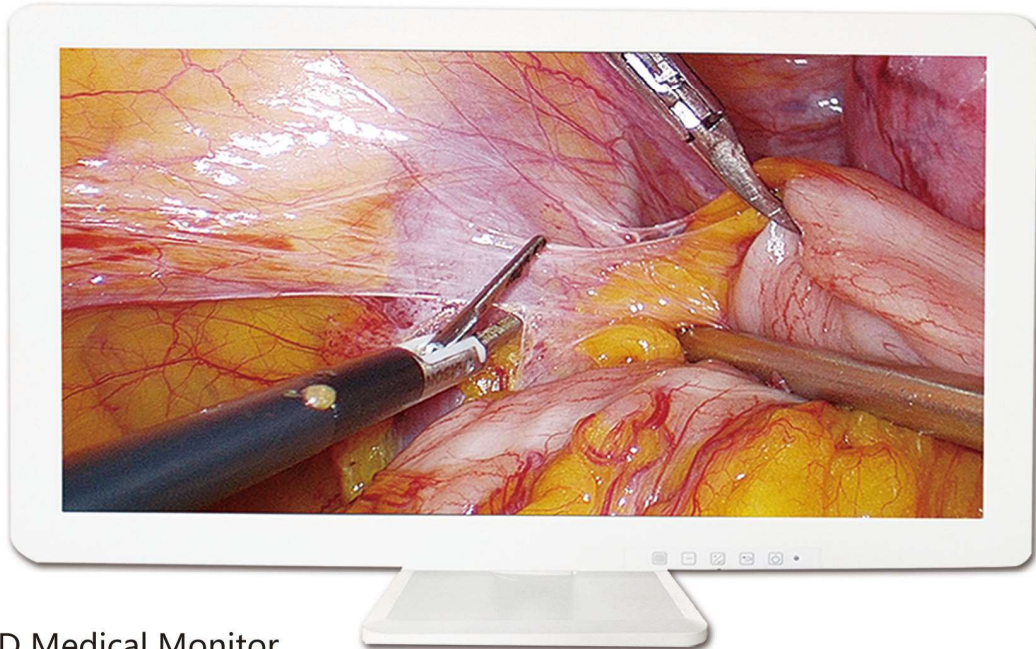
**More intelligent:** 7" high-definition intelligent control screen, easier and more convenient to operate.

**More secure:** Effective reduction of surgical time and ensure that doctors and patients are safer under the same conditions

**Application:** General surgery, Gynecology , ENT, Urology, Orthopedics, Plastic surgery, Aorectal etc.



## Composition of 4K Ultra HD



4K Ultra HD Medical Monitor



4K Ultra HD Endoscope  
Camera System



High brightness  
LED Light Source



4K Ultra HD Camera head



Light Cable



4K Laparoscope



Instrument

**4K Ultra HD Monitor Technical parameters:**

<b>Specifications</b>	<b>Parameters</b>
Type	a-Si TFT-LCD
Resolution	3840 ( RGB ) *2160 UHD
Screen	43寸
Aspect ration	16:9 (H:V)
Pixel arrangement	RGB vertical
Display brightness	350 cd/m <sup>2</sup>
Contrast	1000-1
Viewing angle	89°
Response time	6ms
Supported color	16.7M
Frame frequency	60HZ
Power	70W
Power supply	GSPT120A24-R7B
Interface type	VGA DVI HDMI USB DP
Voltage supply	DC24V
Application environment	Endoscopic surgery video display and medical teaching demonstration display
Display area	941.184(H) x 529.416(V)mm
External dimension	964.6(H)x555.4(VI)x29.1(T)mm
Weight	27Kg
Additional function	Support remote maintenance and parameter guidance adjustment; compatible with video sources such as FHD, HD and SD etc.

**4K Ultra HD Endoscope Camera System Technical parameters:**

<b>Specifications</b>	<b>Parameters</b>
Image Sensor	1/1.8 CMOS
Total pixels	9.03M
Effective pixels	8M
Resolution	3840*2160
Shortcut function	One step WB/One step Freeze/One step PIP
Video output	HDMI*4, 2.0 2160P output
White balance	AWC/One step WB/MWC
Gamma Correction	0.45
SNR	≥50dB

## Medical endoscope HD USB camera **1080P**

# SY-HD7021



Connection: Laptop or desktop

USB

TO USB CABLE

Mobile phone

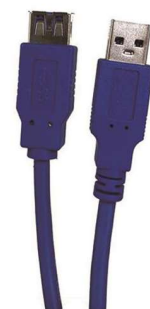
USB

TO USB CABLE

Medical monitor

SDI

TO SDI CABLE



USB cable



SDI cable

- The original Full HD CMOS chip.
- Multi-output: USB, SDI.(Type C, HDMI adapters optional)
- Extinction speed is less than 0.1s.
- The resolution of endoscope camera is up to 1100 lines,1080P.
- Camera head waterproof: IPX8, to prevent water during the surgery.
- Supports Windows XP, 7, 8, &10.
- With menu button to adjust parameters.



## Medical endoscope USB camera SY-GW702C

### MONITOR



### TV



### COMPUTER



BNC

TO BNC CABLE

AV

TO AV CABLE

USB

TO USB CABLE

USB

Menu button

BNC



AV

USB

POWER LINE

Connection:

- 1、 Laptop or desktop.
- 2、 Medical monitor.
- 3、 TV

The original import ccd chip.  
Multi-output : USB, BNC, AV.  
Extinction speed is less than 0.2s.  
The resolution of endoscope camera is up to 700lines.  
Camera head waterproof: IPX8, to prevent water during the surgery.  
Supports Windows XP, 7, 8, &10  
With menu button to adjust parameters  
Dont need driver

# SY-GW611

## Portable Endoscopy Unit



- 4 in 1, camera 700lines + LED light source + monitor+ HD recorder.
- Medical grade HDmonitor, 17 inch.
- With suitcase, easy to carry.
- Suitable for diagnosis and surgery.
- Application: Gynecology, Urology, ENT, Orthopedics, etc.

Detailed parameter as following table:

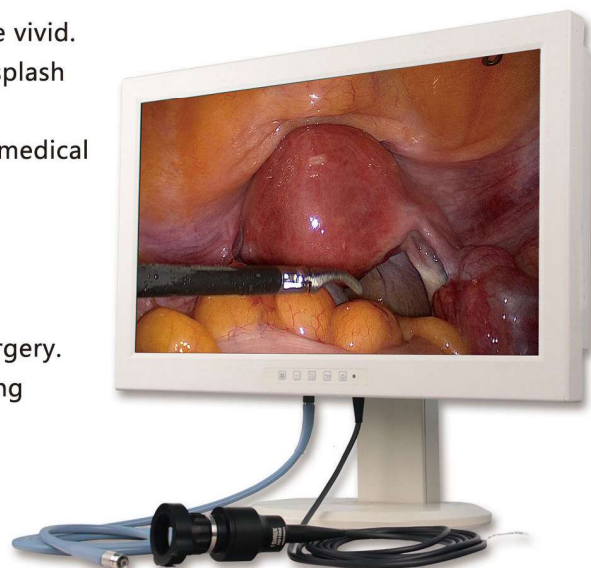
<b>Medical Monitor</b>			
LCD screen	17”		
Color	10.7 billion		
Aspect Ration	5:4		
<b>Endoscope CCD Camera</b>			
Image device	1/3 CCD	SNR	≥50dB
SY	PAL	Brightness	ODS Adjustable
Total Pixels	N:811(H)*508(V) P:795(H)*596 (V)	Backlight processing	Wide dynamic (rank adjustable) / backlight compensation/strong inhibition
Effective Pixels	N:768(H)*494(V) P:752(H)*582 (V)	Synchronous system	Internal Synchronization
Scanning system	2:1 interlaced	White balance	ATW1/ATW2/MANUA
Scan frequency	N:15.734KHZ 59.94HZ P:15.635KHZ 50HZ	Acutance & saturation	Turn on/off grade adjustable
Scanning mode	Interlaced scanning	AG	Low/medium/high/off grade adjustable
Horizontal Resolution	700TVL	Minimum Illumination	F1.2≤0.5lx
Electronic shutter	N:1/60S-110000sec P:1/50S-120000sec	Rollovers	on/off
OSD Control-Menu	Built in external	DNR	2D VOX
<b>LED Light Source</b>			
Input power	60VA	Light output hole diameter	φ ( 10±0.10 ) mm
Light source	LED	Working conditions	5°C ~ + 40°C
Brightness	≥490,000Lux	Storage conditions	-40°C ~ + 55°C
Color temperature	≥6500k	Continuous working hours	>4h
<b>HD Recorder</b>			
Specifications	Parameters	External U flash disk	Max 64G
Recording format	MP4	External mobile HDD	Max 2T
Recording quality	MAX 18Mbs @1080P 30Fps	Recorder interface	Support USB disk & removable hard disk



# SY-GW602

## Portable Medical HD Endoscope Camera System

- Unique TC (true color) reduction technology making color more vivid.
- Preposition anti-glare, anti-fingerprint, protective glass, avoid splash liquid pollution.
- FHD, use top medical IPS high-definition panel, specifically for medical applications.
- The original import chip , digital signal.
- The resolution of endoscope camera is up to 1000lines.
- Extinction speed is less than 0.2s.
- Camera head waterproof: IPX8, to prevent water duiring the surgery.
- 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.
- Colour temperature purity: natural light 6500k, no stray lights.
- High brightness: 490,000Lux, great transparency, excellent color rendering, great three-dimensional sense of the surgery.



### Technical parameters :

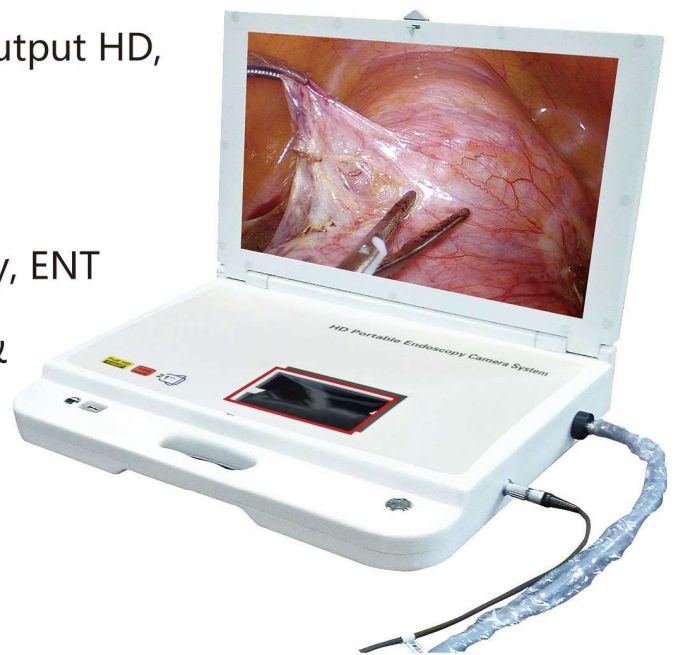
Specifications	Parameters
Screen	21"
Resolution	1920*1080
Aspect Ration	16:9
Input Signal	DVI
Image Sensor	1/2.8 CMOS
Language	Chinese/English/Korean
Effective pixels	P:1920(H)*1080(V)
Scanning Frequency	N:60HZ P:60HZ
Scan mode	Progressive scan
Horizontal resolution	1000TVL
Brightness	ODS adjustable
Min illumination	F1.2≤0.1Lux
Input power	50VA
Light source	Led light
Effective optical power	≥100mW
Brightness(Lux)	≥490000lx
Color temperature	≥6500K
Surface temperatures	≤60°C
Flat thermal of light source	≤80°C
Machine power	50VA



# SY-GW603

## Portable HD endoscopy unit

- Adopt 3CCD technique, 1080 video output HD, good stereoscopic.
- Multi-output: HDMI, BNC
- Application: hysteroscopy, arthroscopy, ENT
- Medical Endoscope Full HD Camera & Medical LCD Monitor & LED Light Source & HD Recorder



Detailed parameter as following table:

Medical Monitor			
LCD screen	21"		
Resolution	1920*1080		
Aspect Ration	16:9		
Port	Camera head port-1pc; Light cable socket-1pc; Usb port-1pc;		
HD Recorder			
Specifications	Parameters	External U flash disk	Max 64G
Recording format	MP4	External mobile HDD	Max 2T
Recording quality	MAX 18Mbs @1080P 30Fps	Recorder interface	Support USB disk & removable hard disk



**Endoscope Full HD Camera**

Image device	1/2.8 CMOS	SNR	≥50dB
SY	PAL	Brightness	ODS Adjustable
Total Pixels	N:2010(H) *1108(V)      P:2010(H) *1118(V)	Backlight processing	Wide dynamic(rank adjustable) /backlight compensation/ strong inhibition
Effective Pixels	N:1920(H) *1080(V)      P:1920(H) *1080(V)	Synchronous syetem	Internal Synchronization
Scanning system	2:1 progressive	White balance	Auto/MANUA
Scan frequency	N:60HZ P:60HZ	Acutance & saturation	Turn om/off grade adjustable
Scanning mode	Progressive scanning	AG	Low/medium/high/ off grade adjustable
Horizontal Resolution	1200TVL	Minimum IIIumination	F1.2≤0.11Lx
Electronic shutter	1/50(60)S-1/60,000s	Rollovers	on/off
OSD Control-Menu	Built in      external	DNR	3D VOX

**LED Light Source**

Input power	100VA	Light output hole diameter	φ ( 10±0.10 ) mm
Light source	LED	Working conditions	5°C ~ + 40°C
Brightness	≥1,900,000Lux	Storage conditions	-40°C ~ + 55°C
Color temperature	≥6500k	Continuous working hours	>4h



# SY-GW605

## Portable HD endoscopy 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			
Screen size	17"		
Color	10.7 billion		
Aspect Ration	5:4		
HD Recorder			
Specifications	Parameters	External U flash disk	Max 64G
Recording format	MP4	External mobile HDD	Max 2T
Recording quality	MAX 18Mbs @1080P 30Fps	Recorder interface	Support USB disk & removable hard disk



<b>Endoscope Full HD Camera</b>				
Image device	1/1.8 CMOS		SNR	≥50dB
SY	PAL		Brightness	ODS Adjustable
Total Pixels	N:2010(H) *1108(V)	P:2010(H) *1118(V)	Backlight processing	Wide dynamic(rank adjustable) /backlight compensation/ strong inhibition
Effective Pixels	N:1920(H) *1080(V)	P:1920(H) *1080(V)	Synchronous syetem	Internal Synchronization
Scanning system	2:1 progressive		White balance	Auto/MANUA
Scan frequency	N:60HZ P:60HZ		Acutance & saturation	Turn om/off grade adjustable
Scanning mode	Progressive scanning		AG	Low/medium/high/ off grade adjustable
Horizontal Resolution	1100TVL		Minimum Illumination	F1.2≤0.11Lx
Electronic shutter	1/50(60)S-1/60,000s		Rollovers	on/off
OSD Control-Menu	Built in	external	DNR	3D VOX
<b>LED Light Source</b>				
Input power	80VA	Light output hole diameter	φ ( 10±0.10 ) mm	
Light source	LED	Working conditions	5°C ~ + 40°C	
Brightness	≥1,200,000Lux	Storage conditions	-40°C ~ + 55°C	
Color temperature	≥6500k	Continuous working hours	>4h	

# SY-GW901

## Full HD Endoscope Camera & LED Light Source

- 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

Recording format	MP4	Recorder interface	Support USB disk & removable hard disk
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### 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	1100TVL

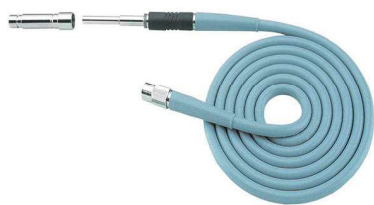
### LED Light Source

Input power	80VA	Light source	LED
Brightness	≥1,200,000Lux	Color temperature	≥6500K



# SY-GW900L-T

## Medical LED light source



Light guide cable  
2m/2.5m/3m( customizable )

### Functions and advantages:

1. 5 intelligent touch LCD screen reinforced tempered glass, wear-resistant, scratch resistant, super sensitive control.
2. Color temperature  $\geq 3000\text{K}$ - $7000\text{K}$ , natural light, no stray lights, great transparency, excellent color rendering, great three-dimensional sense of the surgery.
3. Imported key component: adopted medical imported LED module, strong stability good anti-seismic property.
4. Long working life, it is more than 20,000-40,000 hours, no need to change bulbs frequently, cost saving.
5. Avoiding bulb failure during the operation, which will affect the operation progress and ensure the operation quality and safety.
6. 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	$\geq 100\text{mW}$
Color temperature	$\geq 3000$ - $7000\text{K}$
Noise	$\leq 55\text{dB(A)}$
Working environment	$5^{\circ}\text{C}$ ~ $40^{\circ}\text{C}$
Atmospheric pressure	860hPa~1060hPa
Host fuse	T2AL 250V AC
Light out	Diameter ( $10 \pm 0.30$ ) mm

# SY-GW800L-N



## LED medical cold light source

- ✓ 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.
- ✓ Colour temperature purity: natural light 6500k.
- ✓ High brightness: 490,000Lux, 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
Input power	60VA
Power supply	AC100-240V 50/60Hz
Light source	Led light
Effective optical power	≥100mW
Brightness(Lux)	≥490000lx
Color temperature	≥6500K
Noise	≤55dB(A)
Surface temperatures	≤60°C
Flat thermal of light source	≤80°C
Working environment	5°C ~ 40°C
Atmospheric pressure	860hPa ~1060hPa
Machine power	50VA
Host fuse	T2AL 250V AC
Light power	≥100mW
Light out	Diameter (10±0.10)mm



Light guide cable



# SY-GW800L



## LED medical cold light source

- ✓ 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.
- ✓ Colour temperature purity: natural light 6500k.
- ✓ High brightness: 490,000Lux, 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
Input power	50VA
Power supply	AC100-240V 50/60Hz
Light source	Led light
Effective optical power	≥100mW
Brightness(Lux)	≥490000lx
Color temperature	≥6500K
Noise	≤55dB(A)
Surface temperatures	≤60°C
Flat thermal of light source	≤80°C
Working environment	5°C ~ 40°C
Atmospheric pressure	860hPa ~1060hPa
Machine power	50VA
Host fuse	T2AL 250V AC
Light power	≥100mW
Light out	Diameter (10±0.10)mm



WOLF

OLYMPUS



Light guide cable



OLYMPUS  
STORZ

WOLF

STRYKER  
ACMI



# SY-GW700L



## LED medical cold light source

- ✓ 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.
- ✓ Colour temperature purity: natural light 6500k.
- ✓ High brightness: 190,000Lux, 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
Input power	30VA
Power supply	AC100-240V 50/60Hz
Light source	Led light
Effective optical power	≥100mW
Brightness(Lux)	≥190000lx
Color temperature	≥6500K
Noise	≤55dB(A)
Surface temperatures	≤60°C
Flat thermal of light source	≤80°C
Working environment	5°C ~ 40°C
Atmospheric pressure	860hPa ~1060hPa
Machine power	30VA
Host fuse	T2AL 250V AC
Light power	≥100mW
Light out	Diameter (10±0.10)mm



# Medical Monitor



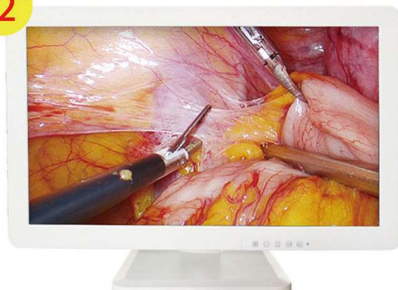
Monitor adopts the latest LED backlight drive technology and high performance I/P conversion. It only needs 5ms speed response time and no delay .

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	SXGA 1024 x 768	SXGA 1920 x 1080	SXGA 1920 x 1080	SXGA 1920 x 1080
Display color	16.2M	10.7 billion colors	10.7 billion colors	10.7 billion colors
Contrast	700: 1	700: 1	700: 1	700: 1
Brightness	450 cd/ m <sup>2</sup>	450 cd/ m <sup>2</sup>	450 cd/ m <sup>2</sup>	450 cd/ m <sup>2</sup>
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	30W-40W	40W	40W-50W	40W-50W
Standby power	5W	5W	5W	5W
Signal interface	BNC/1 , DVI/1 , DP/1 , VGA/1 , USB/1			
Power output	100-240VAC, 50-60Hz, 1.4A 12V=8.5A,102W MAX			
Working environment	Temperature 5°C-45°C Humidity5%-95%			

32"



43"



**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	32" Monitor	43" Monitor
Display size	698.4(H)*392.85(V)mm	941.184(H)*529.416(V)mm
Dot pitch(diagonal)	0.36375(V)*0.12125(H)mm	0.297(V)*0.297(H)mm
Maximum resolution	1920(RGB)×1080 , FHD	3840(RGB)×2160 , UHD
Display color	16.7M (8-bit)	16.7M (8-bit)
Contrast	1200: 1	1000: 1
Brightness	350 cd/ m <sup>2</sup>	350 cd/ m <sup>2</sup>
Response time	8/10 (Typ.)(Tr/Td) (ms)	6ms
Viewing angle (CR≥10)	89/89/89/89 (Min.)	89/89/89/89 (Min.)
Power	8.16-10.8W	70W
Signal interface	HDMI×2	DVI×1,HDMI×1,DP×1,VGA×1,USB×1
Power output	100-240VAC, 50-60Hz, 1.4A 12V 8.5A,102W MAX	
Working environment	Temperature 0°C-50°C Humidity5%-95%	



# SY-Q400

## CO<sub>2</sub> Insufflator



External CO<sub>2</sub> gas filter

High pressure tube with gaspurification and decompression function

### Technical Parameters:

Power supply : AC220V  
 Power frequency : 50Hz  
 Input power : 320VA  
 Fuse : T2AL250V  
 Environment temperature : 10°C~40°C

### Performance indicators:

1. With heating function
2. Gas pressure control range: 5mmHg~25mmHg
3. Pressure control precision: 2mmHg
4. Gas velocity range: 0L/min~40L/min, variable speed
5. Gas velocity allowance: 20%
6. 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 connector

### ACCESSORIES

# SY-Q300

## CO2 Insufflator



External CO2 gas filter

High pressure tube with gaspurification and decompression function

### Function Characteristic:

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
- Dual gas filtering and decompression design

### Technical Parameters:

Supply voltage : ~220V 50HZ    Range of flw : 10~30L  
 Power : 40VA    Noise : ≤50dB  
 Range of press : 5~25mmHg

- 3 level flow rate
- Pulse gas supply design for great safety

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

### ACCESSORIES

# SY-G200

## Irrigation Pump



- Used in orthopaedics , Gynecology and Urology systems
- Sterile tubing sets with sensor , a peristaltic pump , with two channels
- Emulsion tube and shim are replaceable (5pce , L:approx.16cm)
- 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:

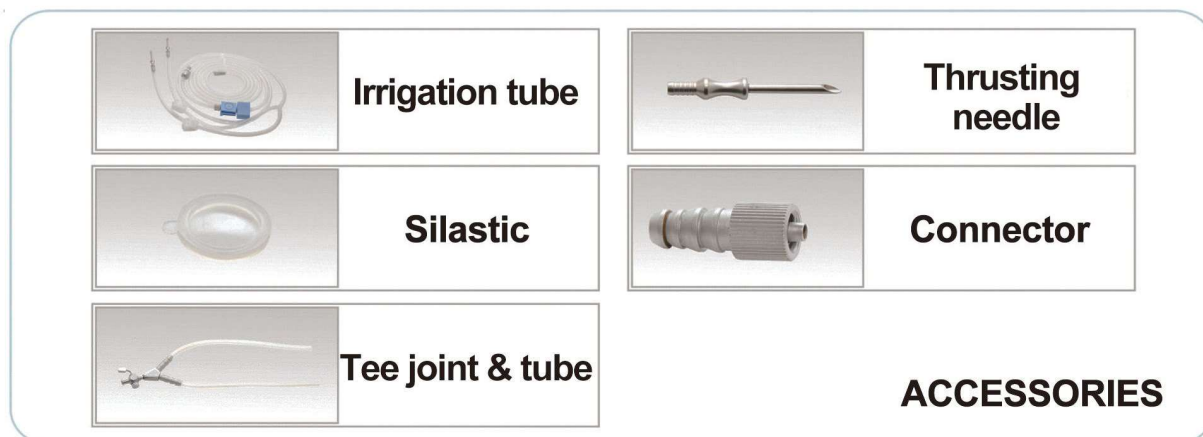
Supply voltage : ~220V 50HZ

Power : 150VA

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

Range of flw : 0.1~1.0L/min

Noise : ≤70dB





# SY-C200

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: ~220V 50HZ

Power: 50VA

Range of pos-pressure: 10~50kPa

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

Noise: <= 70dB



Silicone tube



Wash needle



Effluent bottle

ACCESSORIES

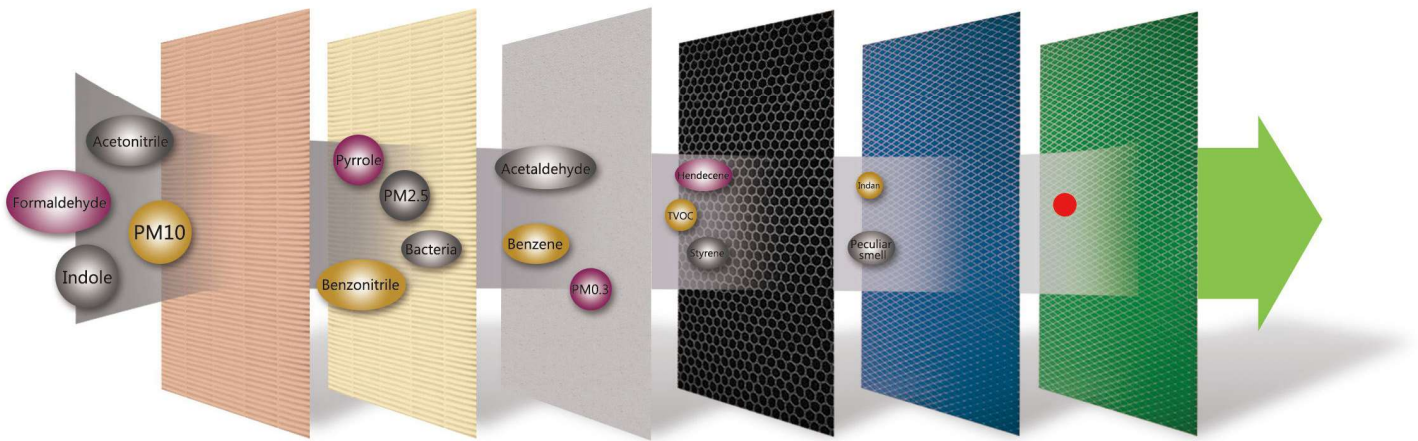
# Intelligent Fume-extracting System



## Functional and advantages

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.
3. Avoiding tissue protein degradation and gasification due to the use of high frequency power, ultrasonic scalpel during surgery.
4. The smoke generated during the operation will be instantly removed from the smoke and purified into a healthy air that the body can absorb.
5. The third gear intelligent control automatically removes the smoke speed, no need for personnel operation.
6. Simple operation, full core intelligent LED touch menu.
7. Pedal and smart touch screen, two boot modes, smokeless auto off.
8. It is suitable for minimally invasive endoscopic system of various brands in the world.
9. Application: General surgery, Urology, Gynecology and other laparoscopic surgery.

Layer 1 filtration    Layer 2 filtration    Layer 3 filtration    Layer 4 filtration    Layer 5 filtration    Layer 6 filtration



PM10 filter	PM2.5 filter	ULPA Ultra-efficient filter	GX Activated carbon	Catechin filter	Spongy silver ion
<ol style="list-style-type: none"> <li>1. Ecological negative oxygen ion generation technology with pollutant collection function;</li> <li>2. Adsorption and collection of pollutants to improve purification efficiency and achieve ultra-fine purification.</li> </ol>	<ol style="list-style-type: none"> <li>1. Deeply purify harmful tissue gases such as spores and bacteria below 2µm;</li> <li>2. Effectively filter PM2.5 particles.</li> </ol>	<ol style="list-style-type: none"> <li>1. ULPA is based on HEPA and has been enhanced to enhance the filtration efficiency of HEPA;</li> <li>2. The filtration efficiency of ULPA reached over 99.9999% for particles over 0.3 micron.</li> </ol>	<ol style="list-style-type: none"> <li>1. It has the function of reducing harmful gas oxidation and decomposition;</li> <li>2. Effectively filter virus bacteria; Adsorb and lock pollutants to prevent secondary pollution;</li> <li>3. Effectively filter TVOC gas.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove the smell of bacteria and smoke caused by ultrasonic force, Electrosurgical unit and tissue cutting.</li> </ol>	<ol style="list-style-type: none"> <li>1. Silver ions (Ag+) can strongly adsorb the protease of the bacterial body and quickly combine with it to destroy the protease of the bacterial body, leading to bacterial death .</li> </ol>

Specifications	Parameters
Power	AC220
Frequency	60HZ
Input power	60VA
Control method	Capacitive touch
Display method	5 "LCD display
Noise	≤70Db
Filtration 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-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
External U flash disk	MAX 128G
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)

# ENT Treatment Unit SY-GW2100T



Extensibility



Economic



Easy Maintain



Large Desk Surface

## 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. It is a economic solution.

To fulfill most ENT diagnose application, it 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.

## Configuration



### Standard Configuration

Metal unit body	1	Compressor	1
Electronic control system	1	Vacuum pump	1
Noise & vibration insulator	1	Instrument tray	2
Spray gun	3	Ointment jar	3
Blowing gun	1	Built in trash bin	1
Suction gun	1	Built in used instrument tray	1
Endoscope heater	1	Endoscope placement	3
LED inspection light	1	Sewage collect system	1



# Trolley TC130



- Product description
- Total size: 1250(H) x 610(W) x 620(D)
- Plate size: 503(W) x 460(D)
- Net weight: 28kg
- Carton packing size: 1230(L) x 630(W) x 230(H)
- Contain power socket
- The spacing of the plates can be adjusted



# **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 Magnifier, Bromhidrosis endoscope, Breast implant endoscope, Thoracoscope, Fibrolaryngoscope, Fiber choledochoscope, Fiber bronchoscope, Fiber ureteroscope, APP hernia repair, lacrimal passage, Minimally invasive varicose veins, etc.

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