

ENDOSCOPES



COMPANY PROFILE

Shenyang shenda endoscope co., ltd was established in the 1980s. Our company is the pioneer and manufacturer of medical rigid endoscopes in China. After more than 30 years unremitting efforts, manifold endoscopes and instruments, specially the creative curved hysteroscopes, are widely being used in clinical diagnosis and minimally invasive operation. Shenda has products in urology, gynecology, ENT, anus-enterology, orthopaedics, laparosurgery and the domain of industrial production. It's our principle in business "High quality, reasonable price,value demand of customers". We are actively doing cooperation with many friends throughout the world. We have contributed to the furtherance of dissemination and development of minimally invasive operation.

Development

- Shenda company always have high regard for exploitation and development of products.The first optical fiber style cystoscope,arthroscope, resectoscope were born in shenda company.The flexible endoscope protection system which can avoid iatrogenic cross infection is reinited in the world by shenda company. It is a huge progress of endoscope technology.
- At present, we have more than 1000 kinds of products. They are used in minimally invasive operation in urology, gynecology, ENT, anus-enterology, orthopaedics and laparosurgery. In recent years, shenda received the endoscope as our preponderant products. Large scale production of endoscope has brought satisfactory effect.

Technique and production

- Our company has complete professional technical teams in the fields of optics, mechanics, electrics equipment, quality management, standardization and so on.We can do and design optics system, full set of products and the design of electric equipment production. In addition, our company has a consultant which has many famous medical experts in our country.
- We use optics material, optical fiber, metal and nonmetal material. The processing of the components realizes digital machining and ensures the property and quality.
- In recent years, we strengthen the contact with domestic and overseas markets, and the domestic and foreign and optics companies are satisfied with the large amount of the lenses we produced for them. This helps domestic endoscopes and optics components to go out of our country, and increases our status in the domestic endoscope market.
- Our company can design and produce various kinds of special endoscopes according to the needs of the customers.

Quality and Sales

- Our company has complete quality management system.We passed the ISO9001 : 2008 and ISO 13485 : 2012 quality managment system and gained CE certificate.
- Our company sets perfect service and commercial network in order to provide high cost performance products for customers and ensure the after sale service.

Honor

Our company has gained more than 40 patents in different countries, including Chinese patent of invention and practical new patent, Japanese patent, Spanish patent and has passed PCT international patent application, and we will get the proprietary intellectual property rights of America, European Union and so on. The rod lens process method has been used in many companies in our country. Our products got more than 20 prizes of our country. The cysto-urethroscope NP-1, open laparoscope KF-1 and hysteroscope XG-5 are national new products.

- We awarded Liaoning high and new technology company in 1990.
- We became the member of Chinese medical apparatus and instruments association in 1996.
- "Shenda"Brand Endoscope got top ten of medical apparatus and instruments industry in 1998.
- We became the membership of Chinese science and technology industrialization seminar in 2001.
- We awarded top-50 private science and technology enterprise of Shenyang in 2003.
- We got the program of promoting business by applying scientific and technological advances in 2005.
- Plasma resectoscope got the support of national science and technology innovation fund in 2006.



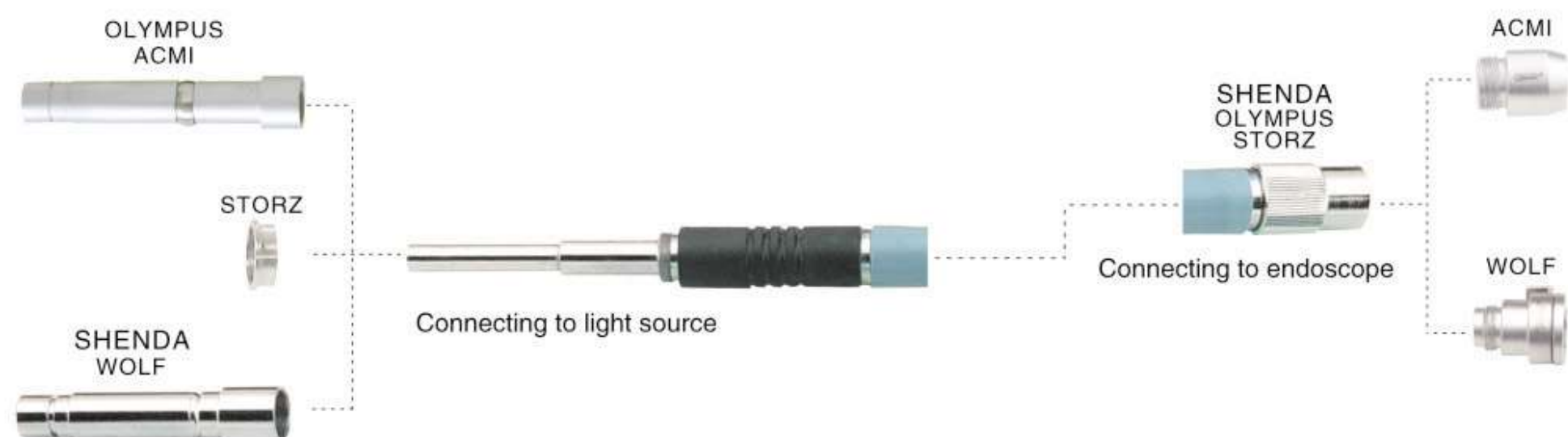
Code of endoscope

	Endoscopes	Autoclavable endoscope
	J□□□□ G or CG G: wide angle, CG: wider angle Code(English letter) Angle of view direction (Arabic numerals) kinds of endoscopes(Arabic numerals)	Autoclave 134° C/273° F

Mark of color code

	 0° / 5°	 12°	 30° / 25° 22°	 45° / 90°	 70°	 110°
---	--	---	---	--	--	---

How to connect the light cable



The picture is only for reference. Please refer to the real object.

Contents

Urology

Cystoscope NP-3	2
Cystoscope NP-3X	4
Resectoscope QD-2	6
Resectoscope QD-2	8
Urethrotome NQ-2	10
Lithotriptoscope PS-1,PS-2	12
Lithotriptoscope PS-3	14
Ureteroscope SNJ-1	16
Transcutaneous nephroscope JS-1....	18
Transcutaneous nephroscope JS-1....	20
Transcutaneous nephroscope JS-1W.....	22
Resectoscope QD-2/30°	24
Thulium laser apparatus	26
Green laser apparatus	28
Accessories for choice	30

Gynecology

Hysteroscope XG-5,XG-5A	33
Hysteroscope ZG-1	35
Hysteroscope ZG-2	37
Hysteroscope ZG-3	39
Hysteroscope ZG-3A,ZG-3B	43
Hysteroscope ZG-3A	45
Resectoscope QD-2	47
Accessories for choice	49

Laparoscope DF

Laparoscope DF.....	51
---------------------	----

ENT

Sinuscope BD-1.....	64
Accessories of sinuscope	67
Otoscope EJ-1,2,3,4	75
Laryngoscope HJ-1	75
Operating Laryngoscope HZ-1	76

Orthopedics

Arthroscope GJ-3.....	79
Accessories of arthroscope.....	82
BXQ Computer powerful chipping device	88

Anus-enterology

Proctoscope CZ-4	90
Sigmoidoscope CJ-4	92
Electrical equipment.....	94
Endoscopic image system.....	97
Monitor.....	98
Industrial Endoscope	99



GYNECOLOGY

Hysteroscope XG-5/XG-5A

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ The unique 22° curved tube can make doctor find the left and right fallopian tube easily
- ◆ The endoscope has limiting stopper, easy to control the insertion depth
- ◆ Hysteroscope with handle and instruments with metal handle can be chosen
- ◆ Low temperature plasma sterilization can be used



J0122
J0122A

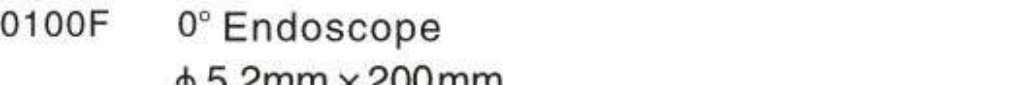
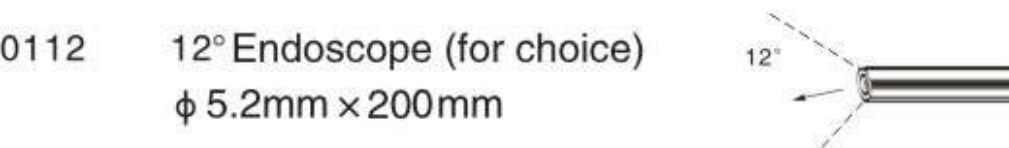
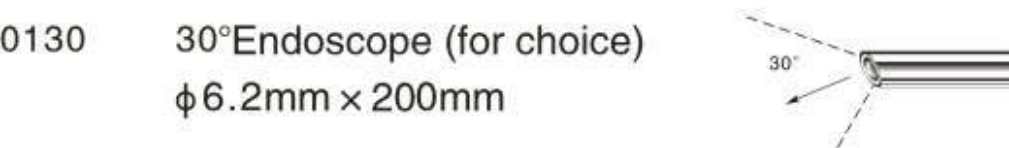
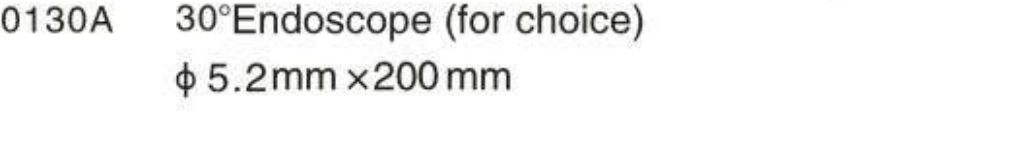
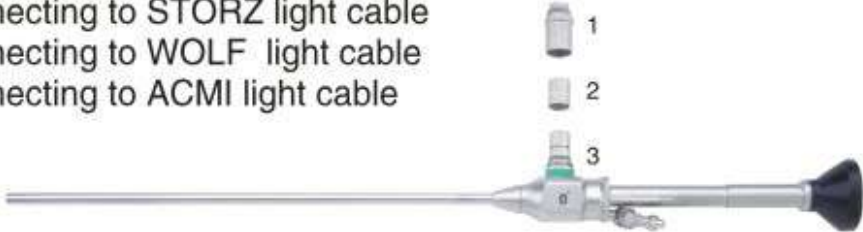
Endoscope		Steel Wire, Flexible brush, Sealed cap, Light cable	
J0122	22° Curved hysteroscope φ 6.4mm × 170mm	X5803	Steel wire φ0.8mm × 300mm
		U8661	Flexible brush 6Fr
J0122A	22° Curved hysteroscope φ 5.2mm × 170mm	T7303	Sealed cap
1 Connecting to SHENDA light cable Connecting to OLYMPUS light cable Connecting to STORZ light cable 2 Connecting to WOLF light cable 3 Connecting to ACMI light cable		U8724	Light cable Φ4mm × 2m
		U8724C	Light cable Φ4mm × 3m
		1	2
		1 Connecting to SHENDA fountain Connecting to WOLF fountain 2 Connecting to STORZ fountain	
Instrument		Accessories	
Instrument with normal handle			
Instrument with metal handle		J0122R	Curved hysteroscope (With handle) φ 6.4mm × 170mm
		J0122AR	Curved hysteroscope (With handle) φ 5.2mm × 170mm
X5161A	Flexible biopsy forceps 6Fr × 385mm	T7511	Infusion unit
X5161B	Flexible biopsy forceps (Metal handle) 6Fr × 385mm	X5162	Flexible grasping forceps 6Fr × 385mm
X5261A	Flexible scissors 6Fr × 385mm	X5164	Flexible saw tooth forceps 6Fr × 385mm
X5261B	Flexible scissors (Metal handle) 6Fr × 385mm	X5164B	Flexible saw tooth forceps (Metal handle) 6Fr × 385mm
X5163A	Flexible grasping ring forceps 6Fr × 385mm	X5165	Flexible foreign body forceps 6Fr × 385mm
X5163B	Flexible grasping ring forceps (Metal handle) 6Fr × 385mm	X5165B	Flexible foreign body forceps (Metal handle) 6Fr × 385mm

Hysteroscope ZG-1

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Doctor can conveniently control the direction through straight endoscope
- ◆ The endoscope has limiting stopper, easy to control the insertion depth
- ◆ Hysteroscope with handle and instruments with metal handle can be chosen
- ◆ Low temperature plasma sterilization can be used



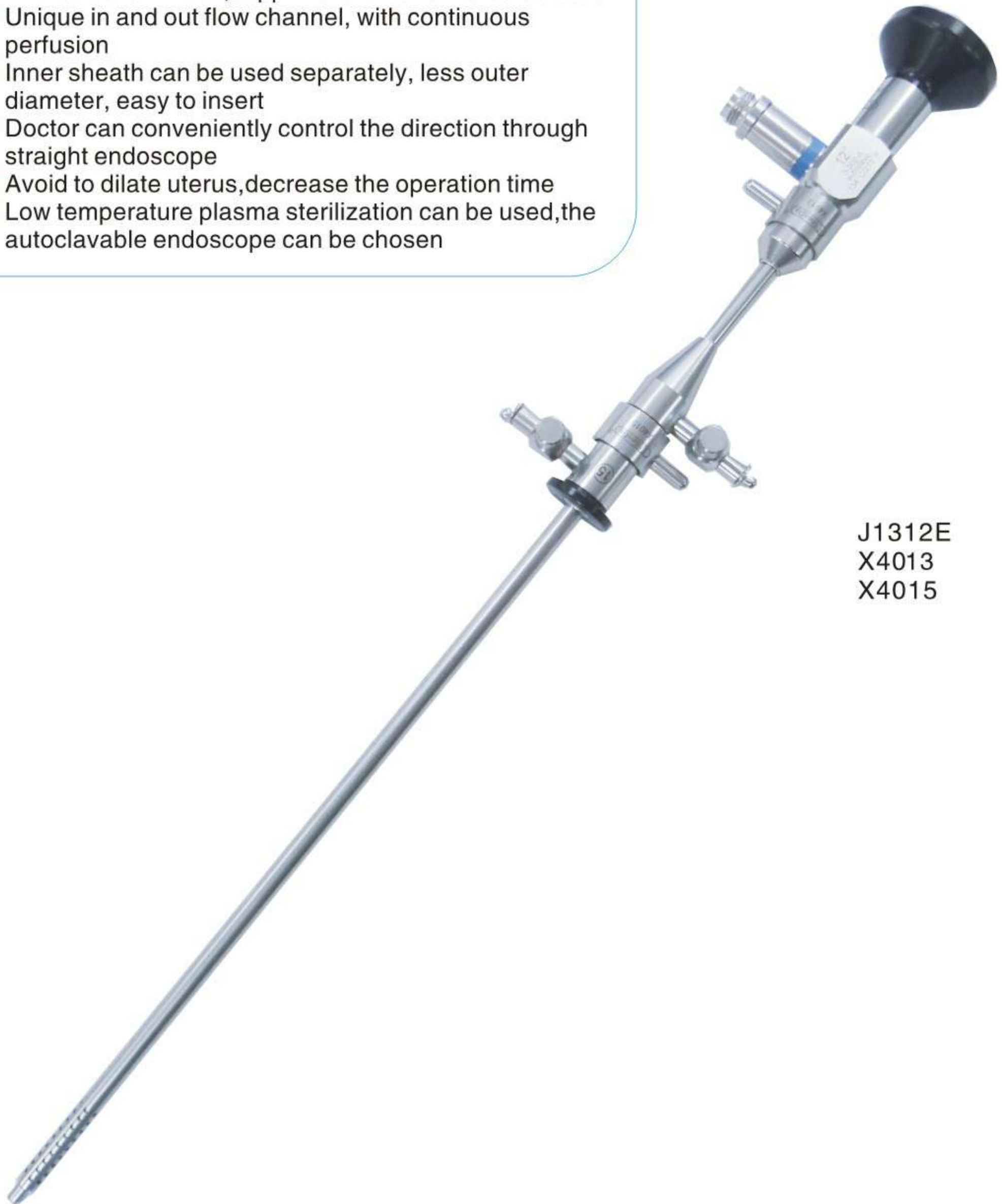
J0100A
J0100F

Endoscope		Steel Wire, Flexible brush, Sealed cap, Light cable	
	J0100A 0° Endoscope φ 6.2mm × 200mm	X5803 Steel wire φ0.8mm× 300mm	
	J0100F 0° Endoscope φ 5.2mm × 200mm	U8661 Flexible brush 6Fr	
	J0112 12° Endoscope (for choice) φ 5.2mm × 200mm	T7303 Sealed cap	
	J0130 30° Endoscope (for choice) φ 6.2mm × 200mm	U8724 Light cable Φ4mm × 2m	
	J0130A 30° Endoscope (for choice) φ 5.2mm × 200 mm	U8724C Light cable Φ4mm × 3m	
1 Connecting to SHENDA light cable Connecting to OLYMPUS light cable Connecting to STORZ light cable 2 Connecting to WOLF light cable 3 Connecting to ACMI light cable		1 Connecting to SHENDA fountain Connecting to WOLF fountain 2 Connecting to STORZ fountain	
			
Instrument		Accessories	
Instrument with normal handle		J0100AR Straight tube hysteroscope (With handle) φ 6.2mm × 205mm	
Instrument with metal handle		J0100FR Straight tube hysteroscope (With handle) φ 5.2mm × 205mm	
		T7511 Infusion unit	
X5161A Flexible biopsy forceps 6Fr × 385mm		X5162 Flexible grasping forceps 6Fr × 385mm	
X5161B Flexible biopsy forceps (Metal handle) 6Fr × 385mm		X5164 Flexible saw tooth forceps 6Fr × 385mm	
X5261A Flexible scissors 6Fr × 385mm		X5164B Flexible saw tooth forceps (Metal handle) 6Fr × 385mm	
X5261B Flexible scissors (Metal handle) 6Fr × 385mm		X5165 Flexible foreign body forceps 6Fr × 385mm	
X5163A Flexible grasping ring forceps 6Fr × 385mm		X5165B Flexible foreign body forceps (Metal handle) 6Fr × 385mm	
X5163B Flexible grasping ring forceps (Metal handle) 6Fr × 385mm			

Hysteroscope ZG-2

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Unique in and out flow channel, with continuous perfusion
- ◆ Inner sheath can be used separately, less outer diameter, easy to insert
- ◆ Doctor can conveniently control the direction through straight endoscope
- ◆ Avoid to dilate uterus, decrease the operation time
- ◆ Low temperature plasma sterilization can be used, the autoclavable endoscope can be chosen

GYNECOLOGY



J1312E
X4013
X4015

Endoscope	Accessories(4mm,30° Endoscope)
J1330E 30° Endoscope φ 3mm × 302mm  1 Connecting to SHENDA light cable Connecting to OLYMPUS light cable Connecting to STORZ light cable 2 Connecting to WOLF light cable 3 Connecting to ACMI light cable 	J0330E 30° Endoscope φ 4mm × 302mm  X4019T Outer sheath 19Fr × 210mm  X4016T Inner sheath & obturator 16Fr × 230mm 
Outer sheath,InnerSheath& obturator,Valve	
X4015 Outer sheath 15Fr × 210mm  X4012A Inner sheath & obturator 12Fr × 230mm  T7201 In-flow valve  T7211 Out-flow valve 	T7202A In-flow valve  T7211D Out-flow valve 
Light cable	Accessories(12° Endoscope)
U8724 Light cable Φ4mm × 2m U8724C Light cable Φ4mm × 3m  1.Connecting to SHENDA fountain Connecting to WOLF fountain 2.Connecting to STORZ fountain	J1312E 12° Endoscope φ 3mm × 302mm  X4015 Outer sheath 15Fr × 210mm  X4013 Inner sheath & obturator 12Fr × 230mm  T7201 In-flow valve  T7211 Out-flow valve 

Hysteroscope ZG-3(6Fr)

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Doctor can conveniently control the direction through straight endoscope
- ◆ The rigid instruments is well-positioned, long life
- ◆ Low temperature plasma sterilization can be used, the autoclavable endoscope can be chosen

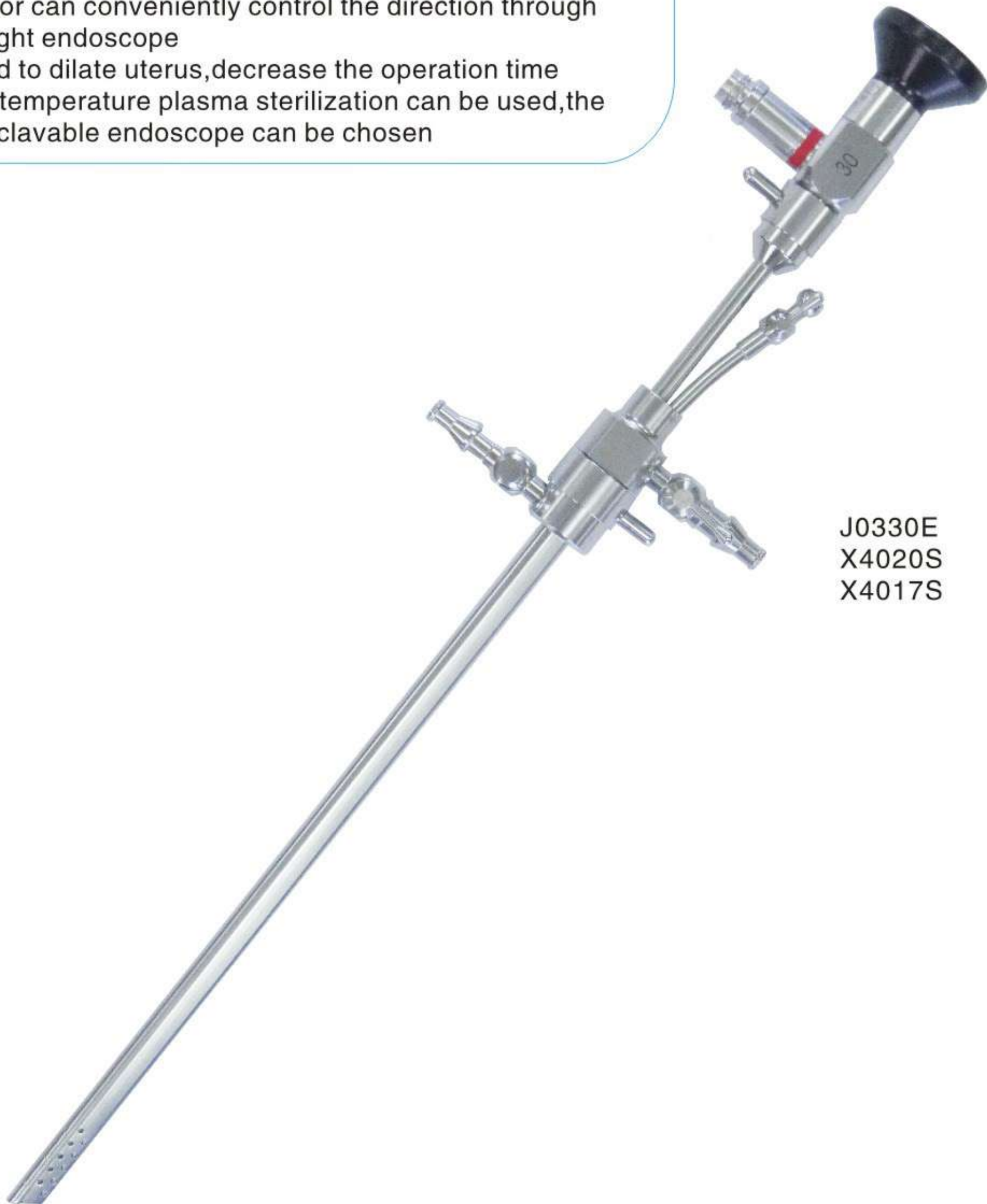


J0330E
X4019

Endoscope	Instrument
J0330E 30° Endoscope φ 4mm × 302mm  1 Connecting to SHENDA light cable Connecting to OLYMPUS light cable Connecting to STORZ light cable 2 Connecting to WOLF light cable 3 Connecting to ACMI light cable  	 X5001 Rigid biopsy forceps 6Fr × 340mm  X5301 Rigid scissors 6Fr × 340mm 
Working element, Obturator	Accessories
X4019 Working element 19.5Fr × 190mm  X4012 Obturator 12Fr 	T7204C In-flow valve  T7211 Out-flow valve 
Light cable	T7303 Sealed cap 
U8724 Light cable Φ 4mm × 2m U8724C Light cable 1 2 Φ 4mm × 3m  1. Connecting to SHENDA fountain Connecting to WOLF fountain 2. Connecting to STORZ fountain	

Hysteroscope ZG-3(5Fr)

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ New optic system, big field of view, high resolution
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Unique in and out flow channel, with continuous perfusion
- ◆ Less outer diameter of working element, easy to insert
- ◆ Doctor can conveniently control the direction through straight endoscope
- ◆ Avoid to dilate uterus, decrease the operation time
- ◆ Low temperature plasma sterilization can be used, the autoclavable endoscope can be chosen



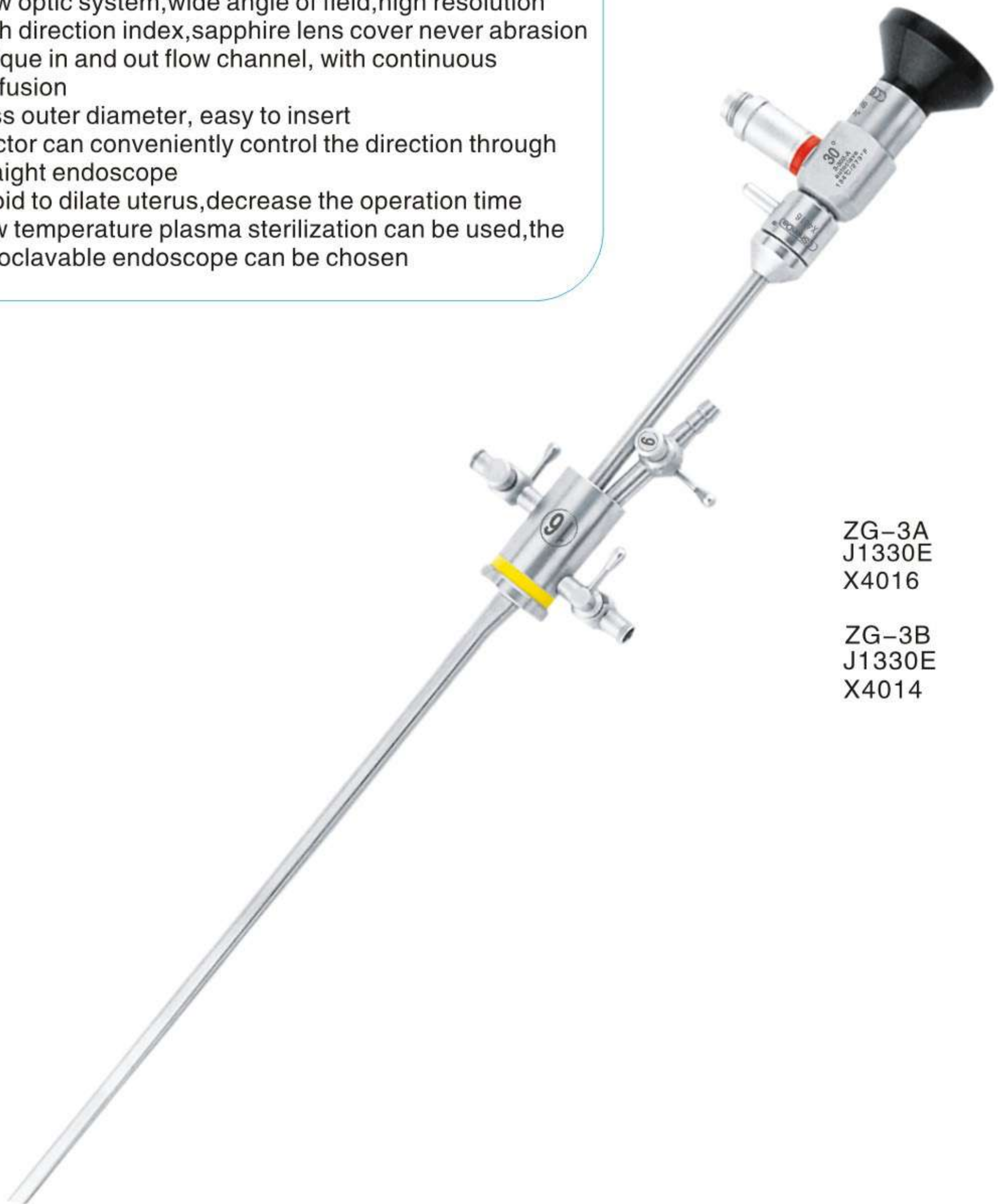
J0330E
X4020S
X4017S

Endoscope	Instrument
J0330E 30° Endoscope φ 4mm × 302mm  1 Connecting to SHENDA light cable Connecting to OLYMPUS light cable Connecting to STORZ light cable 2 Connecting to WOLF light cable 3 Connecting to ACMI light cable  	 X5005 Rigid forceps 5Fr × 340mm 
Outer sheath, Working element, Obturator	Accessories
X4020S Outer sheath&Obturator 19.5Fr × 210mm  X4017S Working element 	T7201 In-flow valve  T7211 Out-flow valve  X5803 Steel wire Φ0.8 × 300mm 
Instrument	
 X5004 Rigid biopsy forceps 5Fr × 340mm  X5302 Rigid scissors 5Fr × 340mm 	U8661 Flexible brush 6Fr  T7303 Sealed cap  U8724 Light cable Φ4mm × 2m  U8724C Light cable Φ4mm × 3m  1 Connecting to SHENDA fountain Connecting to WOLF fountain 2 Connecting to STORZ fountain

Hysteroscope ZG-3A/ZG-3B

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ New optic system, wide angle of field, high resolution
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Unique in and out flow channel, with continuous perfusion
- ◆ Less outer diameter, easy to insert
- ◆ Doctor can conveniently control the direction through straight endoscope
- ◆ Avoid to dilate uterus, decrease the operation time
- ◆ Low temperature plasma sterilization can be used, the autoclavable endoscope can be chosen

GYNECOLOGY



ZG-3A
J1330E
X4016

ZG-3B
J1330E
X4014

Hysteroscope ZG-3A(16Fr)

J1330E 30° Endoscope
 ϕ 3mm $\times$ 302mm



Working element

X4016 Working element
 16Fr $\times$ 200mm



Instrument

X5001 Rigid biopsy forceps
 6Fr $\times$ 340mm



X5301 Rigid scissors
 6Fr $\times$ 340mm



Valve, Steel wire, Sealed cap, light cable

T7204C In-flow valve



T7211 Out-flow valve



X5803 Steel wire
 ϕ 0.8 $\times$ 300mm



T7303 Sealed cap



U8724 Light cable
 Φ 4mm $\times$ 2m

U8724C Light cable
 Φ 4mm $\times$ 3m



1. Connecting to SHENDA fountain
 Connecting to WOLF fountain
2. Connecting to STORZ fountain

Accessories

J1300E 0° Endoscope
 ϕ 3mm $\times$ 302mm



Hysteroscope ZG-3B(14Fr)

J1330E 30° Endoscope
 ϕ 3mm $\times$ 302mm



1. Connecting to SHENDA light cable
 Connecting to OLYMPUS light cable
 Connecting to STORZ light cable
2. Connecting to WOLF light cable
3. Connecting to ACMI light cable



Working element

X4014 Working element
 14Fr $\times$ 200mm



Valve, Steel wire, Sealed cap, Light cable

T7204C In-flow valve



T7211 Out-flow valve



X5803 Steel wire
 ϕ 0.8mm $\times$ 300mm



T7303 Sealed cap



U8724 Light cable
 Φ 4mm $\times$ 2m

U8724C Light cable
 Φ 4mm $\times$ 3m



1. Connecting to SHENDA fountain
 Connecting to WOLF fountain
2. Connecting to STORZ fountain

Hysteroscope ZG-3A (5Fr Instruments)

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ New optic system, wide angle of field, high resolution
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Unique in and out flow channel, with continuous perfusion
- ◆ Less outer diameter, easy to insert
- ◆ Doctor can conveniently control the direction through straight endoscope
- ◆ Avoid to dilate uterus, decrease the operation time
- ◆ Low temperature plasma sterilization can be used, the autoclavable endoscope can be chosen



J1330E
X4013S
X4016S

Endoscope	Instrument
J1330E 30° Endoscope φ 3mm × 302mm  1.Connecting to SHENDA light cable Connecting to OLYMPUS light cable Connecting to STORZ light cable 2.Connecting to WOLF light cable 3.Connecting to ACMI light cable  	 X5005 Rigid forceps 5Fr × 340mm 
Outer sheath & obturator, Working element(inner sheath)	
X4016S Outer sheath & obturator 16Fr × 210mm  X4013S Working element (Inner sheath) 13Fr × 220mm 	T7201 In-flow valve  T7211 Out-flow valve  X5803 Steel wire φ0.8mm × 300mm 
Instrument	
 X5004 Rigid biopsy forceps 5Fr × 340mm  X5302 Rigid scissors 5Fr × 340mm 	U8661 Flexible brush  T7303 Sealed cap  U8724 Light cable Φ4mm × 2m U8724C Light cable Φ4mm × 3m  1.Connecting to SHENDA fountain Connecting to WOLF fountain 2.Connecting to STORZ fountain

Resectoscope QD-2 (Rotating locked)

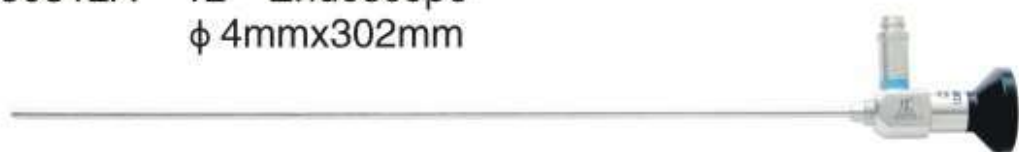
- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Adopt high temperature and high intensity ceramic
- ◆ Big diameter stainless steel valve
- ◆ Active and passive can be chosen freely
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ When the inner sheath & outer sheath keep still, working element, endoscope and cutting loops can rotate 360° freely, with continuous perfusion
- ◆ Low temperature plasma sterilization can be used
- ◆ Thumb ring is movable and more convenient



J0312A
Q6020A
Q4025A
Q4027A

Endoscope

J0312A 12° Endoscope
φ 4mm×302mm



- 1 Connecting to SHENDA light cable
- Connecting to OLYMPUS light cable
- Connecting to STORZ light cable
- 2 Connecting to WOLF light cable
- 3 Connecting to ACMI light cable



Working element

Q6010A Working element(Active)

Q6020A Working element(Passive)



Cutting loops



Q6211 Cutting loops
φ 4mm × 282mm



Q6221 Needle-style cutting loops
φ 4mm × 287mm



X6201 Cutting loops, straight
φ 4mm × 283mm



Q6303 Ball-style cutting loops
φ 4mm × 287mm



Sheath&obturator, Valve

Q4027A Outer sheath
27Fr × 180mm



Q4025A Inner sheath & obturator
25Fr × 195mm



T7202A In-flow valve



HF cord, Cleaning rod, Light cable

U8412B HF cord
3m



U8601C Cleaning rod
φ 3mm × 340mm



U8724 Light cable
Φ 4mm × 2m

U8724C Light cable
Φ 4mm × 3m



- 1 Connecting to SHENDA fountain
- Connecting to WOLF fountain
- 2 Connecting to STORZ fountain

Resectoscope QD-2/30°

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Adopt high temperature and high intensity ceramic
- ◆ Big diameter stainless steel valve
- ◆ Active and passive can be chosen freely
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ When the inner sheath & outer sheath keep still, working element, endoscope and cutting loops can rotate 360° freely, with continuous perfusion
- ◆ Low temperature plasma sterilization can be used
- ◆ Thumb ring is movable and more convenient



J0330E
Q6020H
Q4025H
Q4027H

Endoscope

J0330E 30° Endoscope
 ϕ 4mm $\times$ 302mm



- 1 Connecting to SHENDA light cable
- Connecting to OLYMPUS light cable
- Connecting to STORZ light cable
- 2 Connecting to WOLF light cable
- 3 Connecting to ACMI light cable



Working element

Q6020H Working element(Passive)

Q6010H Working element(Active)



Passive

Cutting loops



Q6211 S3 Cutting loops
 ϕ 4mm $\times$ 281mm



Q6221 S1 Needle-style cutting loops
 ϕ 4mm $\times$ 288mm



X6201S1 Cutting loops, Straight
 ϕ 4mm $\times$ 282mm



Q6303S1 Ball-style cutting loops
 ϕ 4mm $\times$ 287mm



Sheath&obturator,Valve

Q4027H Outer sheath
 26Fr $\times$ 180mm



Q4025H Inner sheath&obturator (Oblique lip)
 24Fr $\times$ 195mm



T7202A In-flow valve



HF cord,Suction device,Light cable

U8412B HF cord
 3m



U8601C Cleaning rod
 ϕ 3mm $\times$ 340mm



U8724 Light cable
 Φ 4mm $\times$ 2m

U8724C Light cable
 Φ 4mm $\times$ 3m



- 1 Connecting to SHENDA fountain
- Connecting to WOLF fountain
- 2 Connecting to STORZ fountain

High intensity cold light source



U9111 GL 350-5
High intensity cold light source

- ◆ Adopt the xenon lamp as the main light, increase the stability of the facility.
- ◆ Adopt the sphere high pressure short arc xenon lamp as the light, with high brightness, pure light color temperature, good color recovering.
- ◆ Adopt the PWM electrical source to provide electric, which has the characteristics of high power efficiency, good energy-saving effect, stable output electric, and these prolong the life of light source.
- ◆ The brightness is adjustable, the round rotation switch in the front panel can control the strength of the output light, simple and convenient to use.
- ◆ Illumination > 2000000LX
- ◆ Power consumption < 500W
- ◆ Colour temperature: 5500K

High intensity cold light source



U9112 GL 350-5A
High intensity cold light source

- ◆ Adopt 350W xenon lamp + 250W halogen lamp, guarantee the inspection and operation going successfully.
- ◆ Adopt the high pressure short arc xenon lamp as the light, with high brightness, pure light color temperature, good color recovering.
- ◆ The brightness is adjustable, the transform of two lamps and strength of the output light can be controlled by the switch in front panel, simple and convenient to use.
- ◆ Adopt the PWM electrical source to provide electric, which has the characteristics of high power efficiency, good energy-saving effect, stable output electric, and these prolong the life of light source.
- ◆ Colour temperature: Main lamp: 5500k, Spare lamp: 3200k
- ◆ Illumination: Main lamp > 2000000LX, Spare lamp ≥ 1800000LX

Medical cold light source



U9125 YG-250
Medical cold light source

- ◆ The light source adopts double-lamp, double output structure. The spare light can be used when the main light does not work, guarantee the inspection and operation going successfully.
- ◆ Adopt the double-halogen lamps as the light, which has the characteristics of high power efficiency, good energy-saving effect, stable output electric, and these prolong the life of light source.
- ◆ Adopt the PWM electrical source to provide electric, which has the characteristics of power efficiency, good energy saving effect, stable output electric, and this prolongs the life of light source.
- ◆ The brightness is adjustable, the transform of two lamps and strength of the output light can be controlled by the switch in front panel, simple and convenient to use.
- ◆ Illumination ≥ 1800000LX
- ◆ Colour temperature: 3200K

LED Light source



U9111 GL-100L
LED light source

PRODUCT PARAMETER

- ◆ 30W LED Lamp
- ◆ Color temperature: 6500k
- ◆ Illuminance: 500000Lx
- ◆ SNR: < 35 dB
- ◆ Input Power: < 100W

Uteri auto inflate and pressure



U9522 DG-1
Uteri auto inflate and pressure

It is used for gynaecology endoscopy and operation. In order to make the field of view clear, uterus is inflated by gas pressure.

- ◆ Power 220V ± 22V 50Hz ± 1Hz
- ◆ Power rating 30W
- ◆ Pressure range 1Kpa~30Kpa
- ◆ Adjusting step length 1Kpa
- ◆ Setting pressure 1~30Kpa
- ◆ Alarm pressure 30Kpa

HF Electrotome



U9331 YT300 Intelligent HF Electrotome

- ◆ Monopolar
 - ◆ Working frequency: 470KHz
 - ◆ Rated load: 500Ω
 - ◆ Power Output: pure electrotomy: 0–350W
 - Compound electrotomy1: 0–250W
 - Compound electrotomy2: 0–250W
 - Powerful coagulation: 0–120W
 - Soft coagulation: 0–100W
- ◆ Power Supply : AC220V, 50Hz
- Bipolar
 - ◆ Working frequency: 410KHz
 - ◆ Rated load: 75Ω
 - ◆ Power Output: bipolar coagulation: 0–100W
 - ◆ Automatic bipolar coagulation: 0–50W

Automatic high flow CO₂ insufflator



U9401 QG-II
Automatic high flow CO₂ insufflator

- ◆ Gas flow and abdominal pressure are controlled by microcomputer technology automatically.
- ◆ Pulse gas supply can be adjusted by setted abdominal pressure and actual abdominal pressure value automatically according to advanced pulse gas supply principle.
- ◆ Gas cylinder pressure, the actual abdominal pressure and air flow are displayed by light beam.
- ◆ With the electrical safety protection system, when the pressure is too high, inflation needle is jammed or gas pressure is insufficient, audible and visual alarm will work.

QG-II

Inlet pressure: 0.28 ~ 0.6MPa
Actual abdominal pressure: 0 ~ 30mmHg
Setted abdominal pressure: 5 ~ 25mmHg
Actual flow: 0 ~ 30L/min
Set flow: 0 ~ 30L/min

Peritoneum cleaner QXQ-1000J



U9421
Peritoneum cleaner QXQ-1000J

Peritoneum Cleaner QXQ-1000J is used for irrigations and suctions of organs in cavity under the laparoscopic surgery in order to make the field of view clear and clean the feculence prevent from pollution and adhesion after the operation

- ◆ The peritoneum cleaner is controlled by computer, adjusted the positive spressure and negative pressure according to the user's demands and shows the value on the screen.
- ◆ It can positive pressure irrigate and negative pressure suck, it can be matched single tube with double channels suction unit (D4403, D4403A) for irrigation and suction and exchange frequently.
- ◆ Washing pressure: 40KPa~70KPa Suction pressure: 30KPa~65KPa.

Perfusion pump for endoscope



U9523 QB-1
Perfusion pump for endoscope

- ◆ The cavity speculum filling pupm QB-1 is an open pressure equipment. It is easy and convenient to clean the liquid in the operation.
- ◆ It takes stepping electrical motor. When the equipment drives. It is steady and makes low noise.
- ◆ Pressure and flow is controlled by computer automatically, when the power is over, the computer will cut off electric source automatically, and when the power recovers, the equipment will be in normal situation. Meanwhile, control equipment is safe and reliable.
- ◆ The range of pressure is 2–53Kpa, the range of flow is 0.1–1L/min. The number is showed on the equipment, and it can adjust the number according to the need.
- ◆ Cavity speculum filling pump QB-1 has the ability of memory. When you open the equipment, it can show the power and flow stated last time.

High definition camera



U9225 High definition camera(HD-668)

PRODUCT FEATURE

- ◆ 1 chip CMOS image sensor achieves digital high definition image
- ◆ 16:9 wide clear picture,excellent display the image
- ◆ With DVI,HD-SDI and various signal outputs interface,compatible with different high-definition monitors
- ◆ Four professional mode settings,meet the needs of different endoscopes
- ◆ Small and light camera head meets the ergonomics design;waterproof grade reaches IPX8

PRODUCT PARAMETER

- | | |
|---|--|
| ◆ Camera head : 1/3" CMOS | ◆ Resolution Rate : 1920(H) × 1080(V) |
| ◆ Outputs : HD-SDI,DVI,Y/C | ◆ Response rate : 2000L × F7(Standard) |
| ◆ SNR : ≥50dB | ◆ White balance : automatic/manual |
| ◆ Automatic gain control : 0~18db | ◆ Automatic shutter : 1/50~1/4000 |
| ◆ Digital zoom : 1-4 times digital zoom | ◆ Weight : camera head :60g |
| ◆ Main body : 1.2kg | |

Colour mini camera (1CCD)



U9226 Colour mini camera
(SD-618 /Luxury type)

PRODUCT PARAMETER

- | | |
|---|---|
| ◆ Major size: 320 × 80 × 350(mm) | ◆ SNR:60 dB |
| ◆ Camera size:Φ32 × 60(mm) | ◆ Shutter:1/60s-1/10,000s |
| ◆ Resolution: PAL | ◆ Signal gain: automatic |
| ◆ Scanning standard: 600 lines | ◆ White balance: automatic/manual |
| ◆ Minimal illumination:0.6 LUX(F1.2) | ◆ Outputs: BNC/ Y/C / RGB /DVI/ USB(optional) |
| ◆ Camera head: 1/3" SONY 1 chip waterproofing camera head | |
| ◆ Extended function:SD Dynamic/Static storage | |

PRODUCT FEATURE

- ◆ Offer different clinical department. Thoracoscopic,Fiber-optic, Cystoscopy,Hysteroscopy, Laparoscopic and ENT etc.
- ◆ Customizing the mode for users. Fulfills the personality needs.
- ◆ Support different languages, Chinese and English.
- ◆ To optimize and process the Moore fringes for the fiber-optic.
- ◆ High image definition, adjust three grades.
- ◆ Image can freeze and save, support SD card dynamic storage.
- ◆ Picture-in-Picture,Four picture display.
- ◆ Completely waterproof camera head, conform to CE highest standard IPX8.
- ◆ Camera head has two edit buttons, can control white balance,image freeze and storage.
- ◆ Different camera head,meet different needs.
- ◆ Specilized software control,when bleeding,the image doesn't become dark.

Colour mini camera (1CCD)



U9224 Colour mini camera
(SD-608/Universality type)

PRODUCT PARAMETER

- | | |
|----------------------------------|-----------------------------------|
| ◆ Major size: 320 × 80 × 350(mm) | ◆ Outputs: BNC |
| ◆ Camera size: Φ30 × 78(mm) | ◆ SNR: 60dB |
| ◆ Camera head: 1/3" 1 chip | ◆ Shutter: automatic |
| ◆ Resolution: PAL | ◆ White balance: automatic/manual |
| ◆ Scanning standard: 480 lines | |

PRODUCT FEATURE

- ◆ Completely medical degree design, soaked in liquid to sterilize.
- ◆ Support hand-actuated, automatic white balance
- ◆ Excellent optics adaptor,breathable, water leakage, remove mist,rotate
- ◆ Adjusting window size to adapt to different thickness of the endoscope.
- ◆ Brightness adgustment

Endoscope image system (NYX)



PRODUCT FEATURE

- ◆ Offer different clinical department. Thoracoscopic, Fiber-optic, Cystoscopy, Hysteroscopy, Laparoscopic and ENT etc.
- ◆ Customizing the mode for users. Fulfills the personality needs.
- ◆ Support different languages, Chinese and English.
- ◆ To optimize and process the Moore fringes for the fiber-optic.
- ◆ High image definition, adjust three grades.
- ◆ Image can freeze and save, support SD card dynamic storage.
- ◆ Picture-in-Picture, four picture display.
- ◆ Completely waterproof camera head, conform to CE highest standard IPX8.
- ◆ Camera head has two edit buttons, can control white balance, image freeze and storage.
- ◆ Different camera head, meet different needs.
- ◆ Specilized software control, when bleeding, the image doesn't become dark.

PRODUCT PARAMETER

- ◆ Major size: 320 × 80 × 350(mm)
- ◆ Camera size: Φ32 × 60(mm)
- ◆ Resolution: PAL
- ◆ Scanning standard: 600 lines
- ◆ Minimal illumination: 0.6 LUX(F1.2)
- ◆ Camera head: 1/3" SONY 1 chip waterproofing camera head
- ◆ Extended function: SD Dynamic/Static storage
- ◆ SNR: 60 dB
- ◆ Shutter: 1/60s–1/10,000s
- ◆ Signal gain: automatic
- ◆ White balance: automatic/manual
- ◆ Outputs: BNC/ Y/C / RGB / DVI/ USB(optional)
- ◆ U9226 Colour mini camera (F168D/Luxury type)
- ◆ U9712 Colour monitor
- ◆ U9111 High intensity cold light source
- ◆ U9401 Automatic high flow CO₂ insufflator
- ◆ U9523 Perfusion pump for endoscope
- ◆ U9820 Alloy car (with desk drawer)

Colour mini camera (3CCD)



U9227 Colour mini camera (SD-628)

PRODUCT FEATURE

- ◆ Completely medical degree design, soaked to sterilize, waterproof grade reaches IPX8
- ◆ Automatic exposure control, automatic identification of light intensity, automatic adjustment of the image brightness
- ◆ Double white balance function, automatic memory of white balance Image brightness can be adjustable in four grade, programmable button on the handle of camera head, convenient for doctor to adjust at any time
- ◆ Optimization function for fiber endoscope, removes Morie fringe when connected with endoscope, makes more clear image
- ◆ Outputs signal outputs : RGB / DVI × 1 BNC / S-video
- ◆ Sharpness can be adjustable in three grade, to choose the best suitable image
- ◆ Windows can be adjustable in three grade, suitable for different endoscopes
- ◆ With function of choosing light source, suitable for LED, xenon lamp and different kinds of cold light source

PRODUCT PARAMETER

- ◆ Camera head : 3 × 1/3" 1 chip waterproof camera head
- ◆ Scanning standard : 800 lines
- ◆ Minimal illumination : 3LUS
- ◆ SNR : 60dB
- ◆ Signal gain: automatic
- ◆ Resolution Rate : 1280 × 1024
- ◆ Outputs : DVI / RGB
- ◆ Shutter : automatic

Sony Monitor (LMD-1510W HD Monitor)



LMD-1510W HD Monitor

- ◆ Screen size: 15.6 inches
- ◆ High purity filter, excellent brightness and contrast
- ◆ 109% peak white and 10-bit signal processing
- ◆ Picture delay can be minimised for audio synchronization.
- ◆ Multiple inputs including SDI and HDMI
- ◆ Resolution: 1366 x 768(WXGA)
- ◆ Aspect ratio:16:9

Sony Monitor(LMD-2110MC Monitor)



LMD-2110MC Monitor

- ◆ Screen size : 21 inches
- ◆ Resolution : HD resolution 1920X1080,16:9
- ◆ Interface: composite analogy,Y/C, 3RCA/RGB Input/Output,HDMI Input,SD-SDI Input(Optional)
- ◆ 10-bit signal processing engine,high-precision LCD grayscale reproduction,wide-angle, high Brightness, contrast and response speed
- ◆ Built-in mono speaker 0.5W
- ◆ External synchronization input/output, parallel remote control
- ◆ Optional color temperature, pure blue mode.

Sony Monitor (LMD-2451MC Monitor)



LMD-2451MC Monitor

- ◆ Completely medical safety standard for UL60601-1,CSA C22.2,EN60601-1
- ◆ 24 inches, resolution 1920X1200, Image Aspect Ratio16:10
- ◆ High Brightness, high contrast,178° wider field of view
- ◆ Interface : composite, Y/C, RGB/3RCA, External synchronization,HD/SD-SDI
- ◆ Computer interface : DVI-D,HD15
- ◆ Optional : SD/HD-SDI, composite, Y/C, RGB/3RCA
- ◆ Serial, parallel remote control interface
- ◆ The screen surface has a AR reflection shield

Monitor (Samsung SMT-1930 /SMT-1934/SMT-2232)



Samsung SMT Monitors

Model	SMT-1930	SMT-1934	SMT-2232
Screen size	19" (Wide screen)	19"	22" (Wide screen)
Max Resolution	1,366 × 768	1,280 × 1,024	1,920 × 1,080
Brightness	300cd/m2	250cd/m2	300cd/m2
Contrast	1,000:1	1,000:1	1,000:1
Viewing Angle(H/V)	160° /160°	170° /160°	170° /160°
Response time	5ms	5ms	5ms
Video system	NTSC/PAL	NTSC/PAL	NTSC/PAL
Interface	HDMI/A	BNC/USB/HDMI	BNC/USB/HDMI/A



Industrial Endoscope

Name	Code	Specification
1 Industrial Endoscope	J4000	0° , φ 4mm × 380mm
2 Industrial Endoscope	J040008302	0° , φ 8mm × 302mm
3 Industrial Endoscope	J040006060	0° , φ 6mm × 60mm
4 Industrial Endoscope	J040004420	0° , φ 4mm × 420mm
5 Industrial Endoscope	J040030400	0° , φ 3mm × 400mm
6 Industrial Endoscope	J040052302	0° , φ 5.2mm × 302mm
7 Industrial Endoscope	J040052175	0° , φ 5.2mm × 175mm
8 Industrial Endoscope	J040004175	0° , φ 4mm × 175mm
9 Industrial Endoscope	J040012120	0° , φ 1.2mm × 120mm
10 Industrial Endoscope	J040012120	0° , φ 1.2mm × 150mm
11 Industrial Endoscope	J040012160	0° , φ 1.2mm × 160mm
12 Industrial Endoscope	J040004540	0° , φ 4mm × 540mm
13 Industrial Endoscope	J040050175	0° , φ 5mm × 175mm
14 Industrial Endoscope	J040006400	0° , φ 6mm × 400mm
15 Industrial Endoscope	J040060380	0° , φ 6mm × 380mm
16 Industrial Endoscope	J040052500	0° , φ 5.2mm × 500mm
17 Industrial Endoscope	J040027140	0° , φ 2.7mm × 140mm
18 Industrial Endoscope	J040010500	0° , φ 10mm × 500mm
19 Industrial Endoscope	J0400354	0° , φ 5.2mm × 354mm
20 Industrial Endoscope	J040016250	0° , φ 1.6mm × 250mm
21 Industrial Endoscope	J2600380	0° , φ 8mm × 380mm
22 Industrial Endoscope	J2600A803	0° , φ 6mm × 803mm
23 Industrial Endoscope	J0600	0° , φ 6mm × 450mm
24 Industrial Endoscope	J5000	0° , φ 4mm × 200mm
25 Industrial Endoscope	J0400	0° , φ 5.2mm × 420mm
26 Industrial Endoscope	J040008450	0° , φ 8mm × 450mm
27 Industrial Endoscope	J1400	0° , φ 3mm × 55mm
28 Industrial Endoscope	J1400B	0° , φ 3mm × 304mm
29 Industrial Endoscope	J043010340	30° , φ 10mm × 340mm
30 Industrial Endoscope	J043006400	30° , φ 6mm × 400mm
31 Industrial Endoscope	J047006300	70° , φ 6mm × 300mm
32 Industrial Endoscope	J047004380	70° , φ 4mm × 380mm
33 Industrial Endoscope	J047008302	70° , φ 8mm × 302mm
34 Industrial Endoscope	J047006540	70° , φ 6mm × 540mm
35 Industrial Endoscope	J047004200	70° , φ 4mm × 200mm
36 Industrial Endoscope	GTD1	70° , φ 4mm × 420mm
37 Industrial Endoscope	J047006600	70° , φ 6mm × 600mm
38 Industrial Endoscope	J047006655	70° , φ 6mm × 665mm
39 Industrial Endoscope	J2670380	70° , φ 6mm × 666mm
40 Industrial Endoscope	J047004540	70° , φ 4mm × 540mm
41 Industrial Endoscope	J047010325	70° , φ 10mm × 325mm
42 Industrial Endoscope	J047035302	70° , φ 3.5mm × 302mm
43 Industrial Endoscope	GTD2670B380	70° , φ 6mm × 380mm
44 Industrial Endoscope	J2670A803	70° , φ 6mm × 803mm
45 Industrial Endoscope	J0770T	70° , φ 8mm × 350mm
46 Industrial Endoscope	J0370500	70° , φ 4mm × 503mm
47 Industrial Endoscope	GTD	70° , φ 4mm × 380mm
48 Industrial Endoscope	GTD(g)	70° , φ 4mm × 380mm
49 Industrial Endoscope	J1690300	90° , φ 6mm × 300mm
50 Industrial Endoscope	J049006350	90° , φ 6mm × 350mm

Industrial Endoscope



Industrial Endoscope

Name	Code	Specification
51 Industrial Endoscope	J0690D	90° , ϕ 8mm $\times$ 340mm
52 Industrial Endoscope	J049006450	90° , ϕ 6mm $\times$ 450mm
53 Industrial Endoscope	J049006580	90° , ϕ 6mm $\times$ 580mm
54 Industrial Endoscope	J049008450	90° , ϕ 8mm $\times$ 450mm
55 Industrial Endoscope	J049006380	90° , ϕ 6mm $\times$ 380mm
56 Industrial Endoscope	J049010500	90° , ϕ 10mm $\times$ 500mm
57 Industrial Endoscope	J049010360	90° , ϕ 10mm $\times$ 375mm
58 Industrial Endoscope	J049010300	90° , ϕ 10mm $\times$ 300mm
59 Industrial Endoscope	J0690A	90° , ϕ 8mm $\times$ 300mm
60 Industrial Endoscope	J0690B	90° , ϕ 8mm $\times$ 700mm
61 Industrial Endoscope	J0690C	90° , ϕ 8mm $\times$ 426mm
62 Industrial Endoscope	J0690	90° , ϕ 6mm $\times$ 455mm
63 Industrial Endoscope	J1690	90° , ϕ 6mm $\times$ 504mm

Endoscope disinfection box、Instruments disinfection box

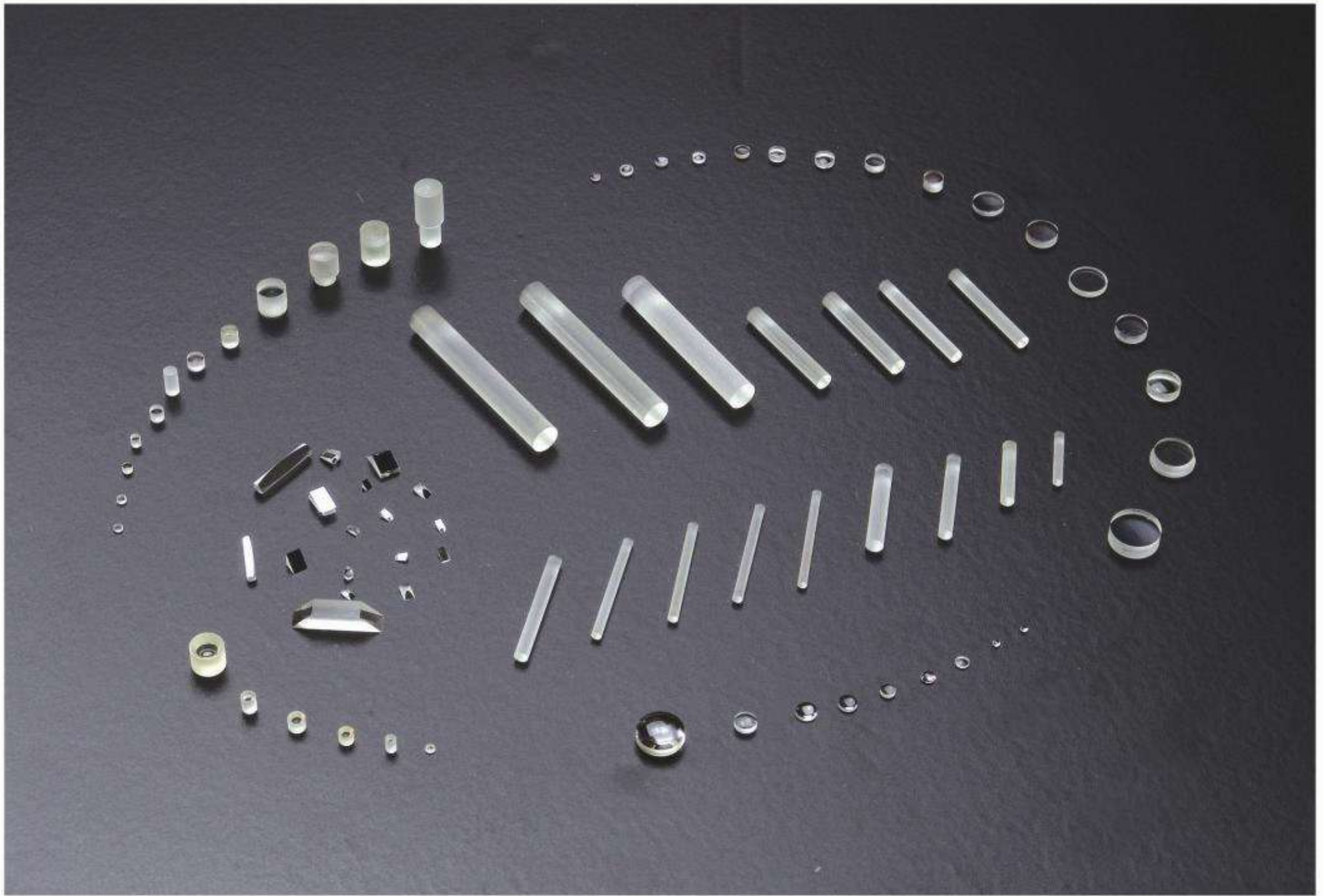


Endoscope disinfection box

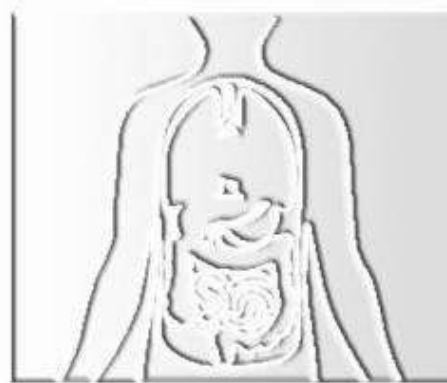
Name	Specification	Note
Laparoscope instruments	560mm $\times$ 235mm $\times$ 75mm	For instruments
Laparoscope instruments	565mm $\times$ 260mm $\times$ 75mm	For instruments
Laparoscope instruments	550mm $\times$ 305mm $\times$ 160mm	For instruments
Laparoscope instruments	540mm $\times$ 230mm $\times$ 70mm	For instruments
Sinuscope instruments	395mm $\times$ 225mm $\times$ 80mm	For instruments
Laparoscope,Cystoscope	430mm $\times$ 90mm $\times$ 45mm	For endoscope
Cystoscope	530mm $\times$ 230mm $\times$ 90mm	For endoscopes
Laparoscope	525mm $\times$ 300mm $\times$ 155mm	For full set products
Sinuscope,Otoscope	275mm $\times$ 90mm $\times$ 45mm	For endoscopes
Sinuscope	360mm $\times$ 260mm $\times$ 90mm	For endoscopes
Sinuscope instruments	380mm $\times$ 215mm $\times$ 70mm	For instruments
Resectoscope	435mm $\times$ 290mm $\times$ 100mm	For full set products
Resectoscope instruments	420mm $\times$ 280mm $\times$ 90mm	For instruments
Cystoscope	545mm $\times$ 240mm $\times$ 100mm	For full set products
Operating laryngoscope	460mm $\times$ 220mm $\times$ 95mm	For full set products
Operating laryngoscope	435mm $\times$ 210mm $\times$ 90mm	For full set products
Power-driven uterectomy	540mm $\times$ 240mm $\times$ 140mm	For full set products
Power-driven uterectomy	540mm $\times$ 250mm $\times$ 135mm	For full set products
Ureterscope	680mm $\times$ 265mm $\times$ 108mm	For single endoscope
Ureterscope	730mm $\times$ 200mm $\times$ 100mm	For single endoscope
Ureterscope	660mm $\times$ 140mm $\times$ 80mm	For single endoscope
Hysteroscope	360mm $\times$ 140mm $\times$ 85mm	For endoscopes
Endoscope	425mm $\times$ 84mm $\times$ 42mm	For endoscopes
Endoscope	270mm $\times$ 84mm $\times$ 42mm	For endoscopes
Endoscope instrument	550mm $\times$ 250mm $\times$ 70mm	For instruments
Endoscope instrument	550mm $\times$ 250mm $\times$ 100mm	For instruments



Instruments disinfection box



Our company undertake processing various optical lens and maintenance of imported brand endoscope.



Welcome you to cooperate with Shenda, please contact us at any time!



SHENYANG SHENDA ENDOSCOPE CO.,LTD.

Address:No.123 Hezuo Street,Dadong District,Shenyang,China

Zip code:110044

Tel:0086-24-88093290

Fax:0086-24-88903118

E-mail:overseas@china-endoscope.com

Website:en.china-endoscope.com