

# 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 reinitediated 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.

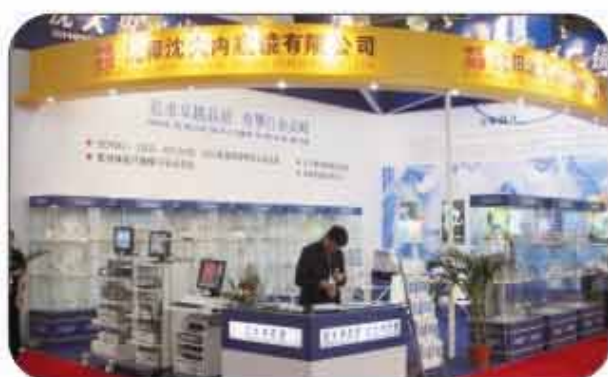
## Quality and Sales

- 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.



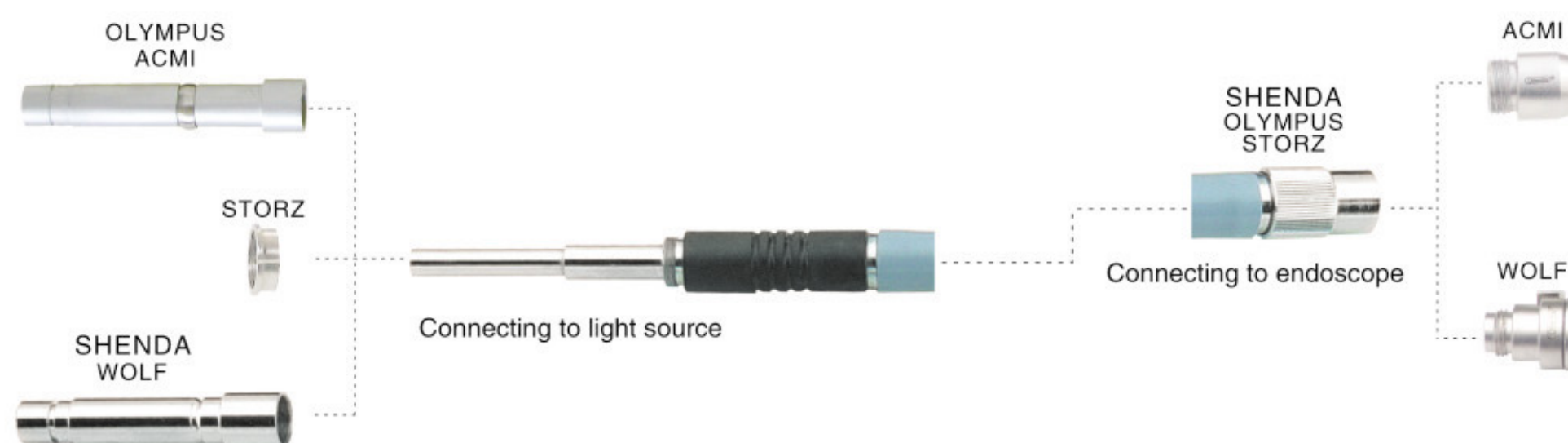
## Code of endoscope

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

## Mark of color code

|                                                                                     |                                                                                                |                                                                                             |                                                                                                           |                                                                                                    |                                                                                              |                                                                                               |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|  | <br>0° / 5° | <br>12° | <br>30° / 25°<br>22° | <br>45° / 90° | <br>70° | <br>110° |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

## How to connect the light cable



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

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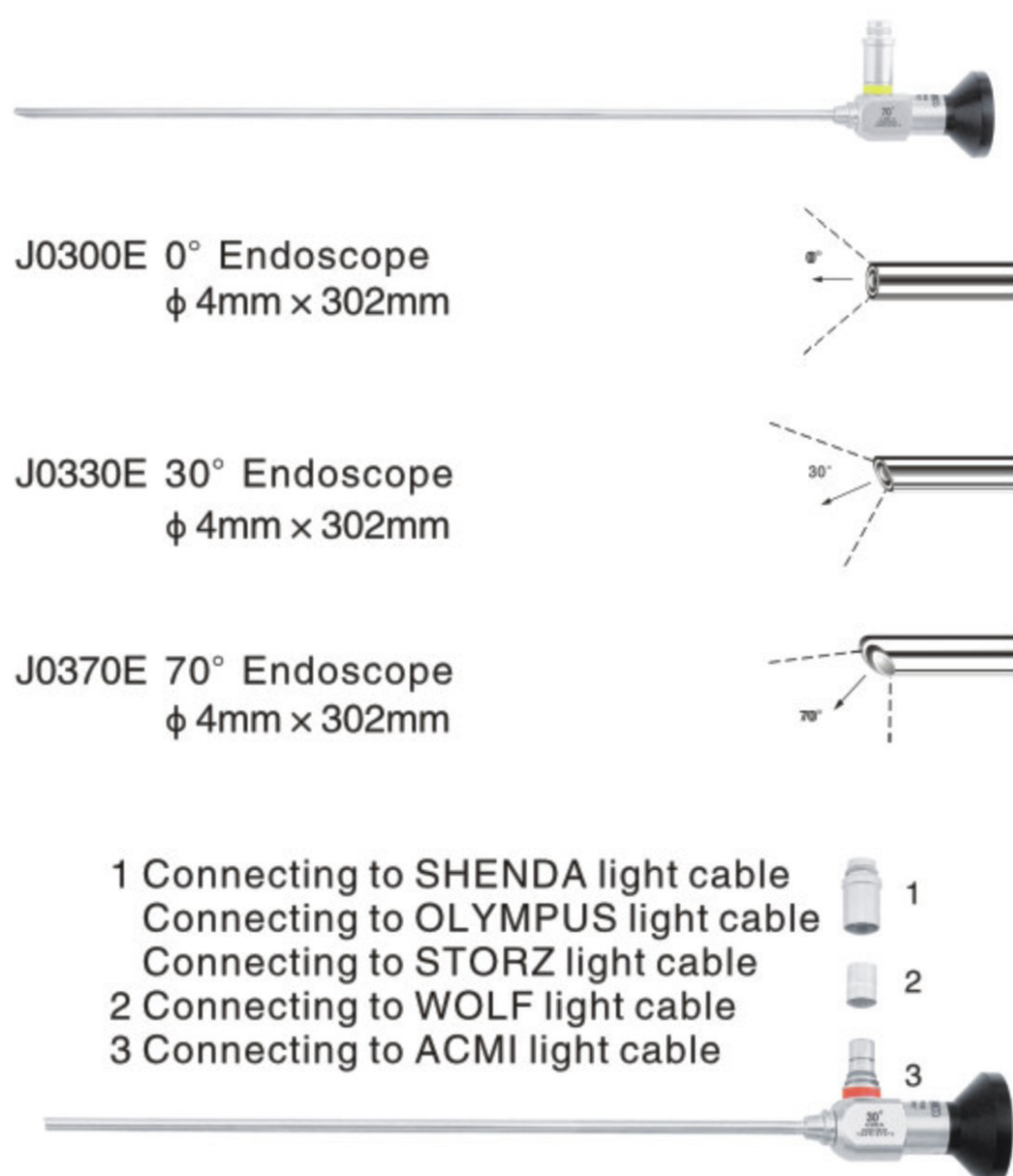
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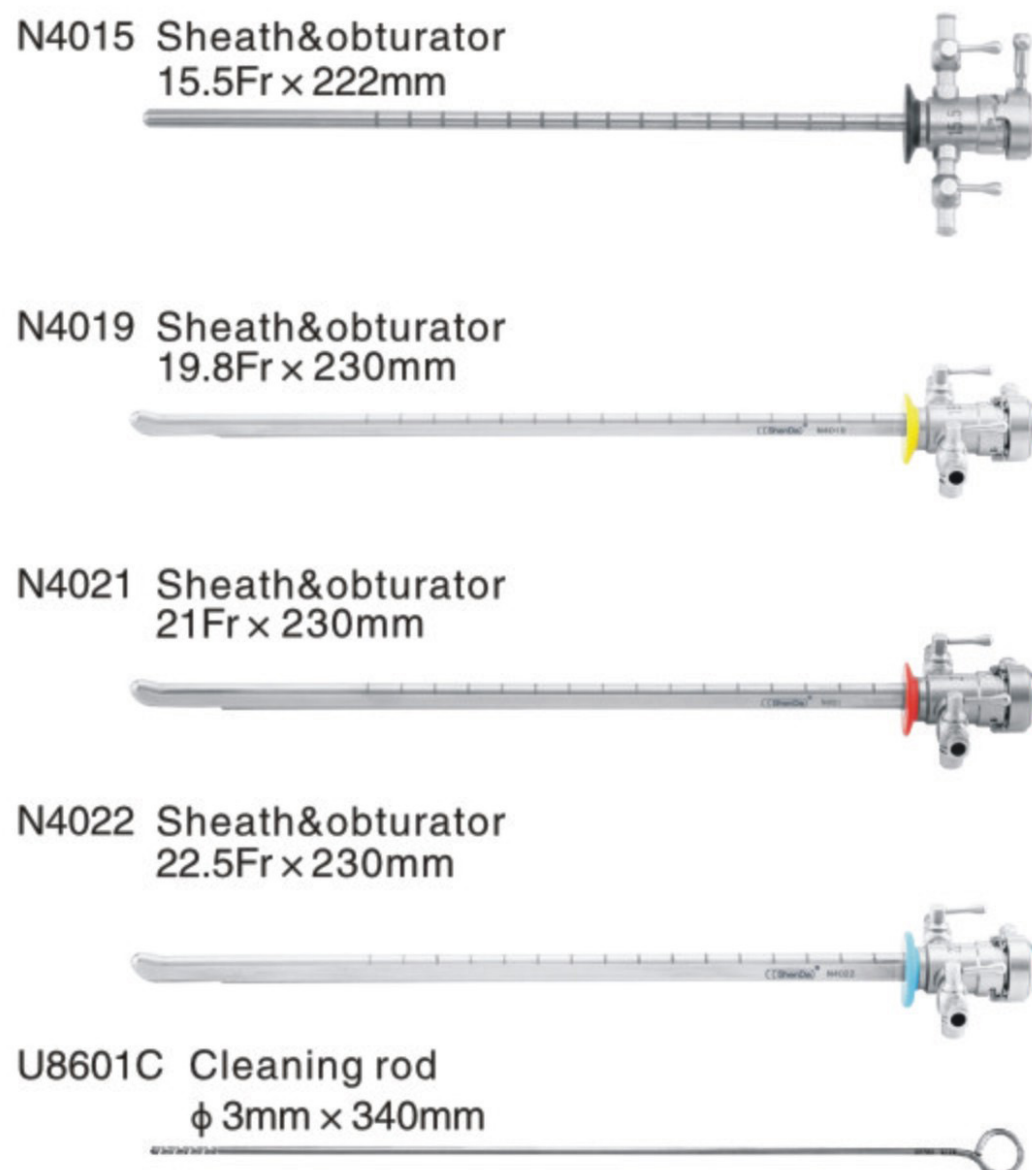


# UROLOGY

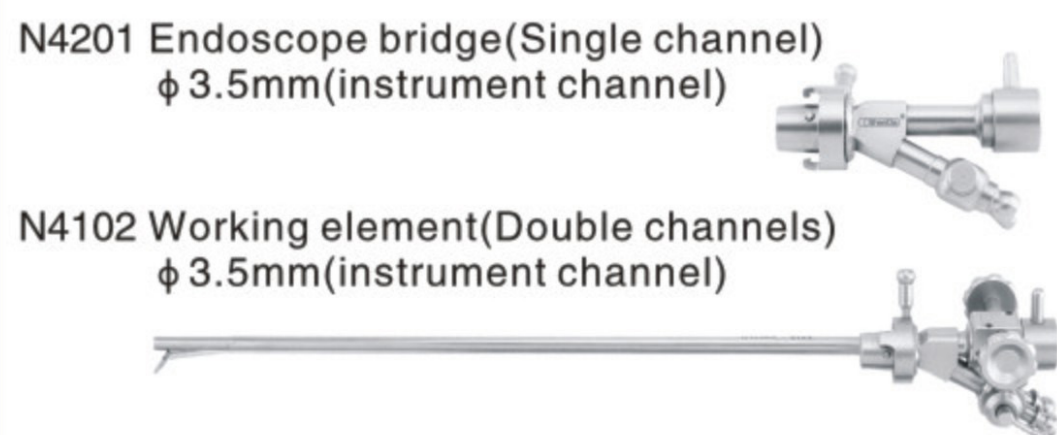
## Endoscope



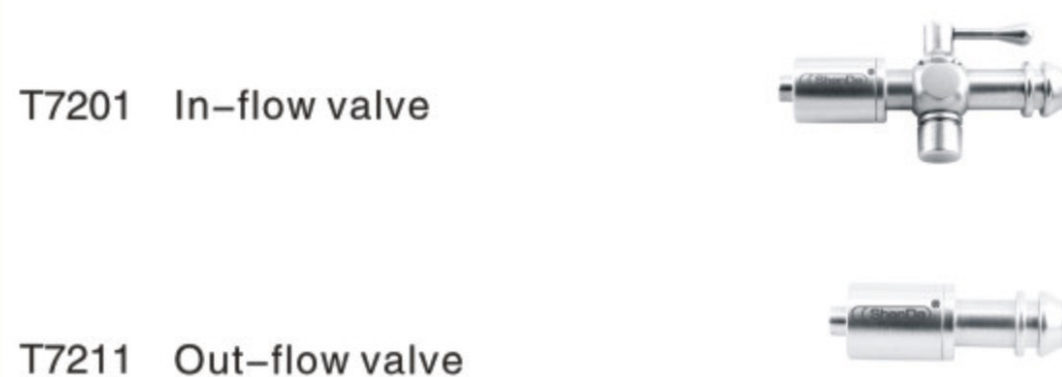
## Sheath&obturator,Cleaning rod



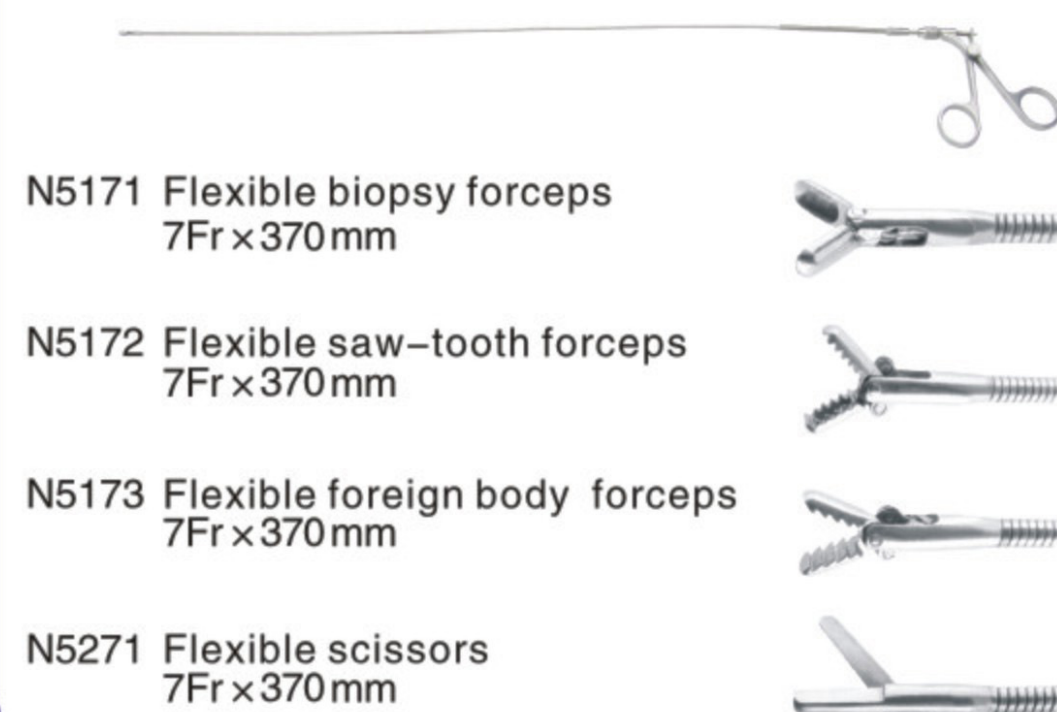
## Endoscope bridge,Working element



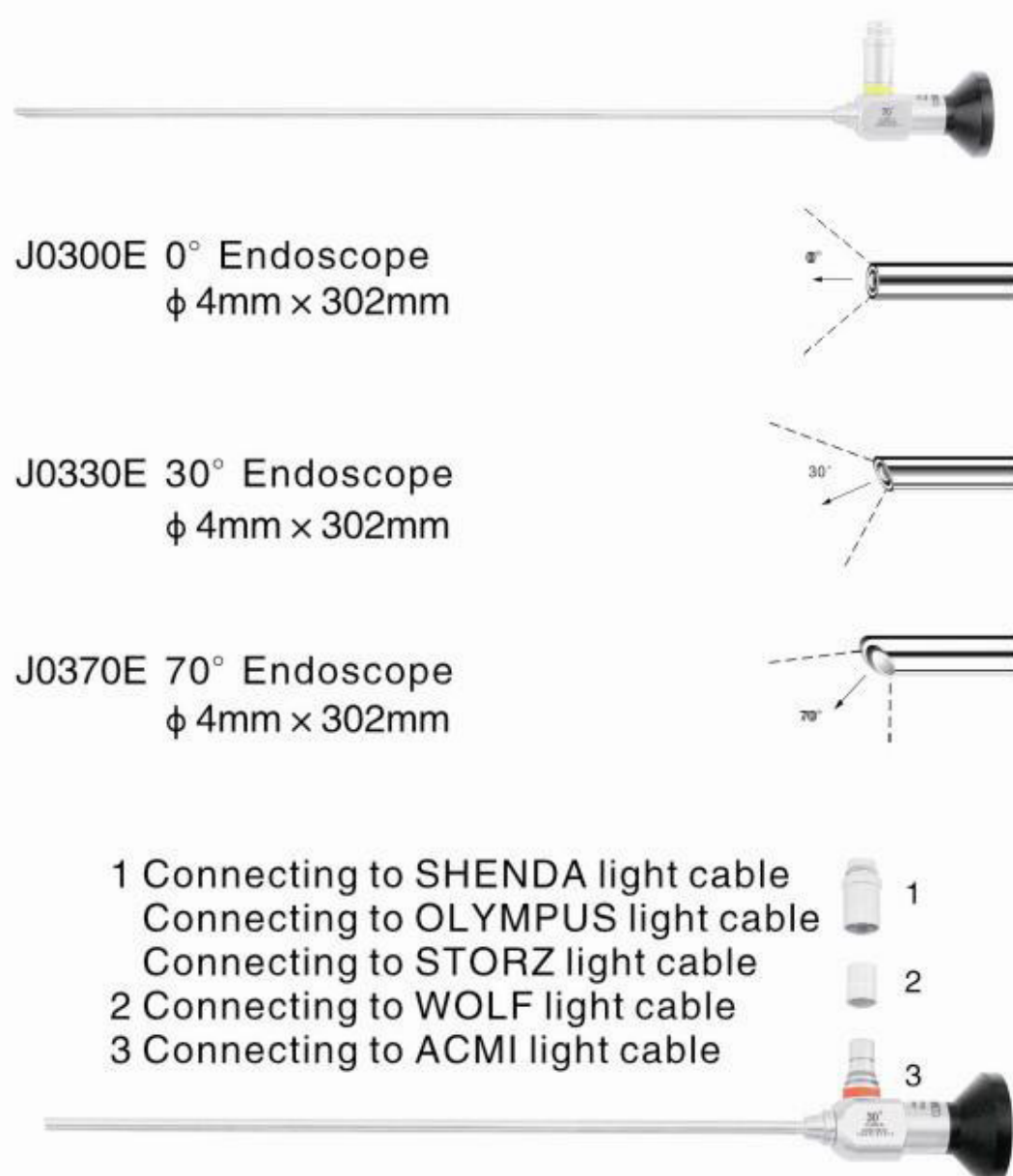
## Light cable,Accessories



## Instrument



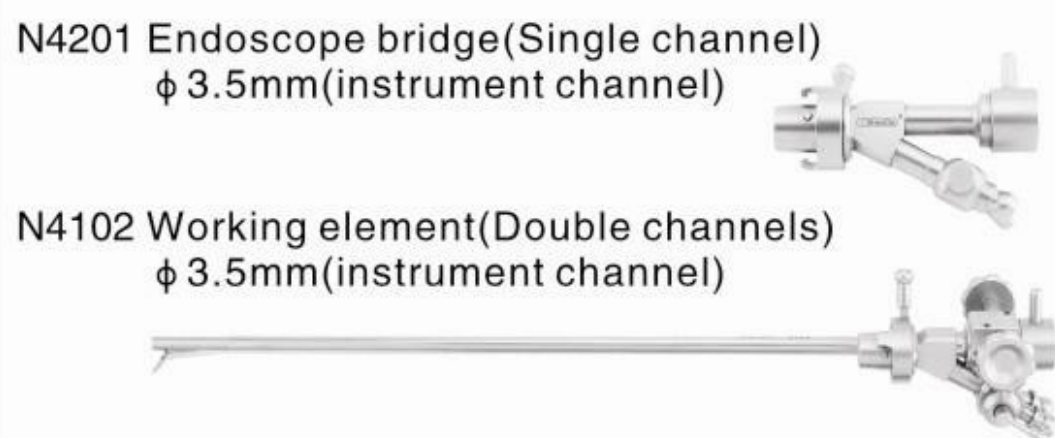
## Endoscope



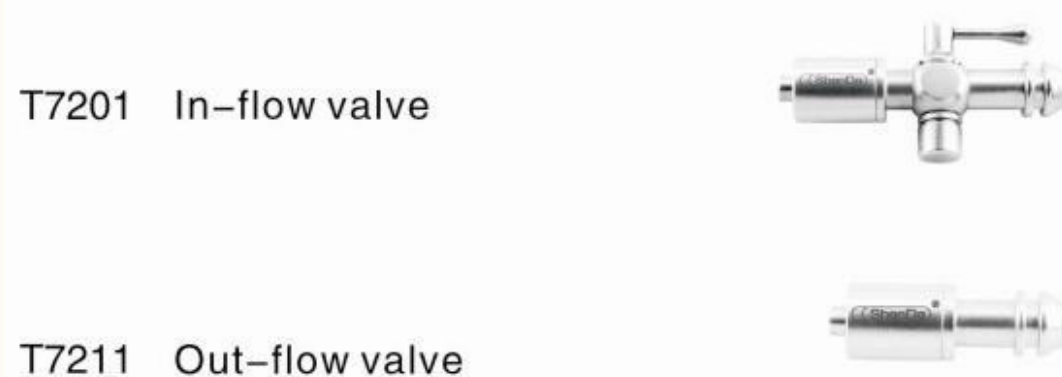
## Sheath&obturator,Cleaning rod



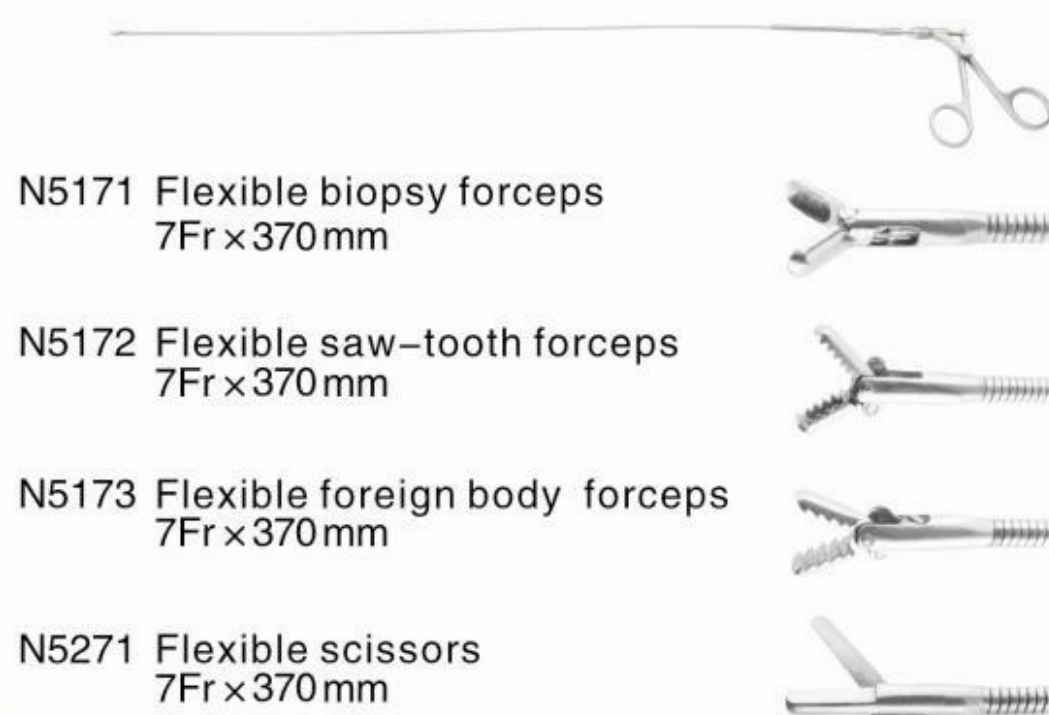
## Endoscope bridge,Working element



## Light cable,Accessories



## Instrument



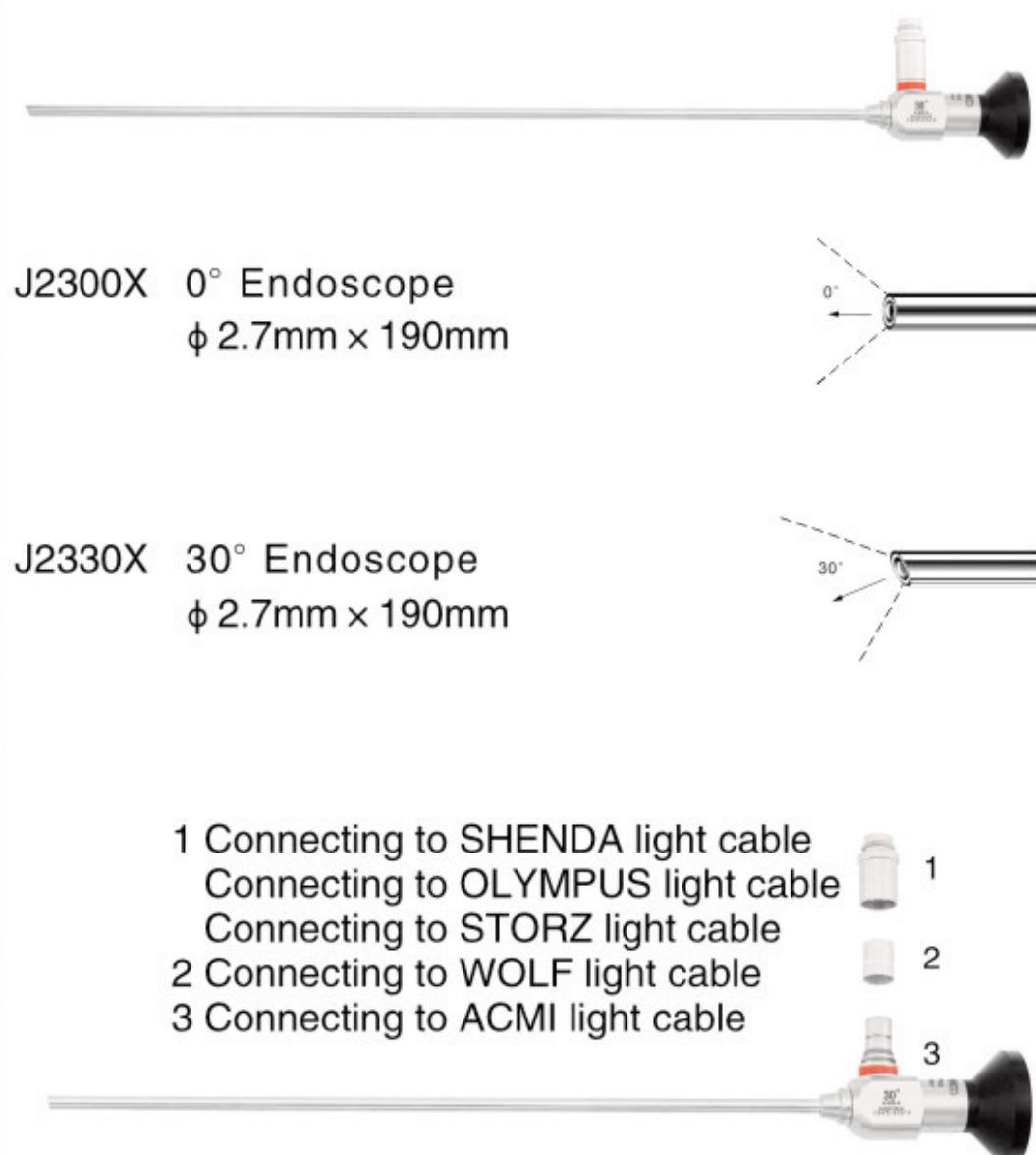
## Cystoscope NP-3X ( Child Type )

- ◆ 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
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ Handle wheel of working element has ups and downs indicator
- ◆ The autoclavable endoscope can be chosen

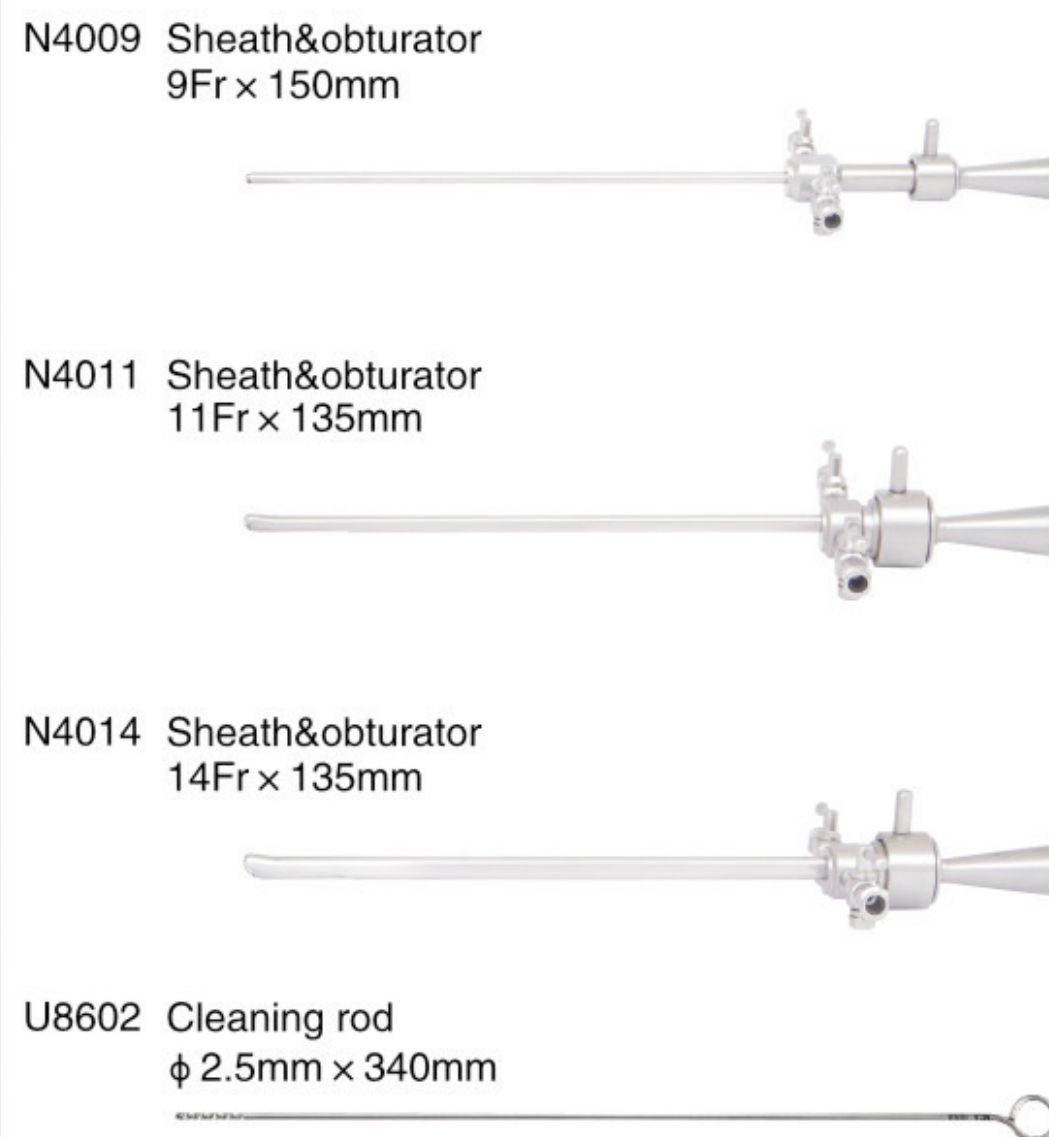


J2330X  
N4201X  
N4102X  
N4014

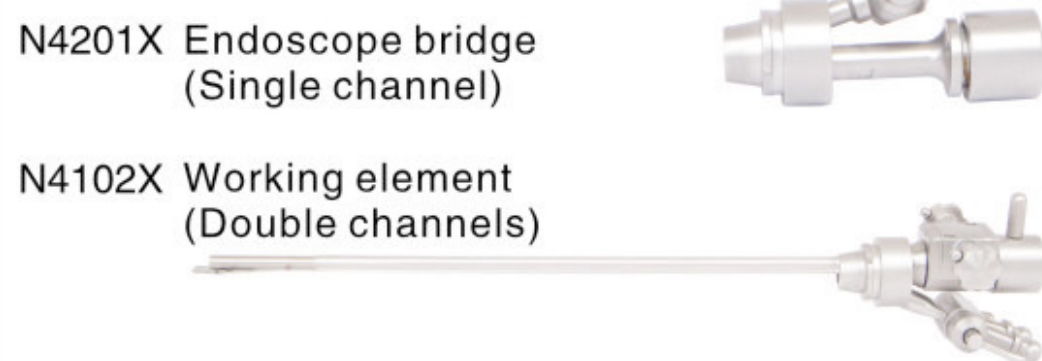
## Endoscope



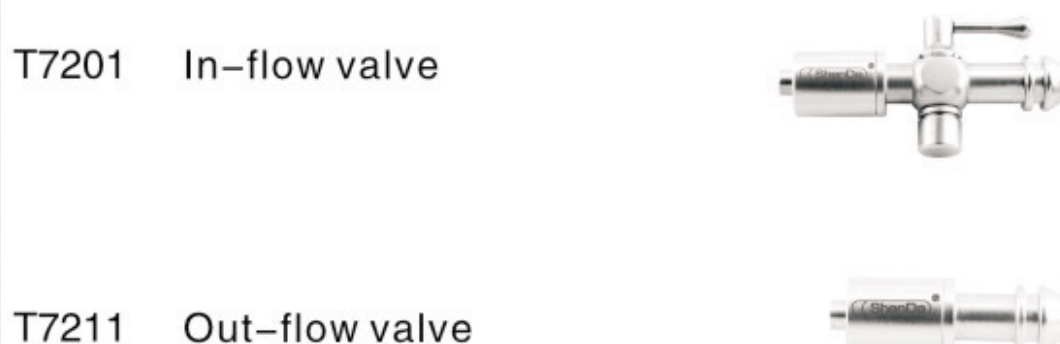
## Sheath&obturator,Cleaning rod



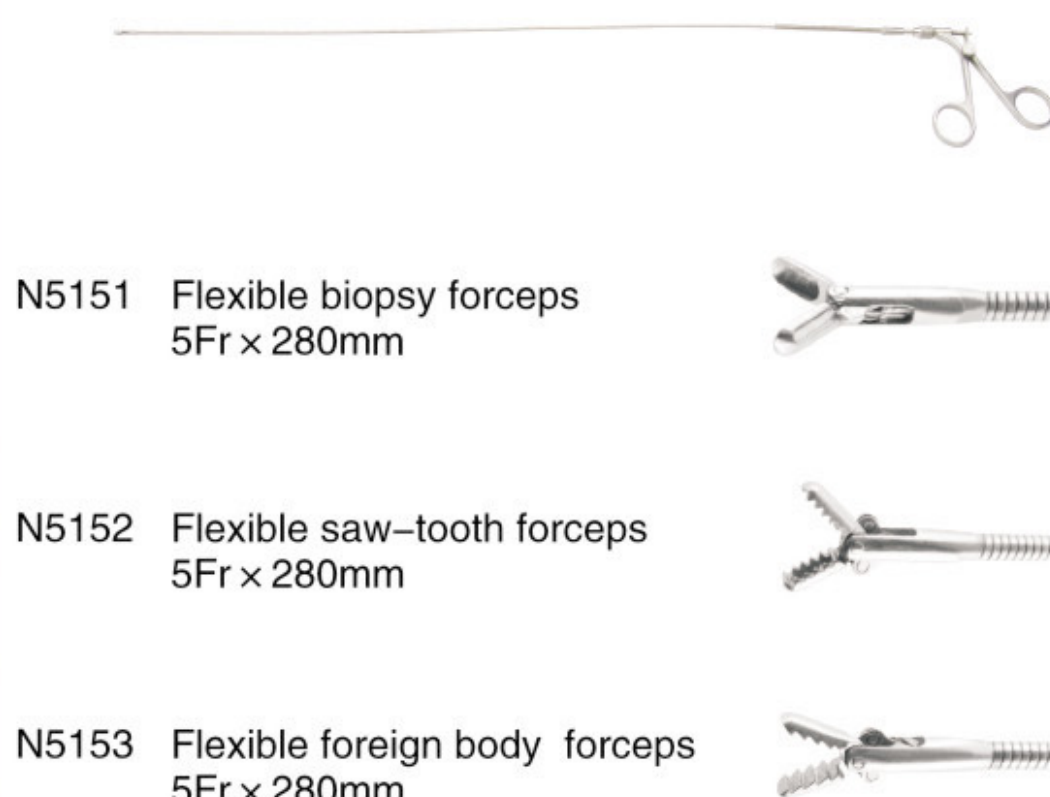
## Endoscope bridge,Working element



## Light cable,Accessories



## Instrument



## Resectoscope QD-2 (Rotating Locked)

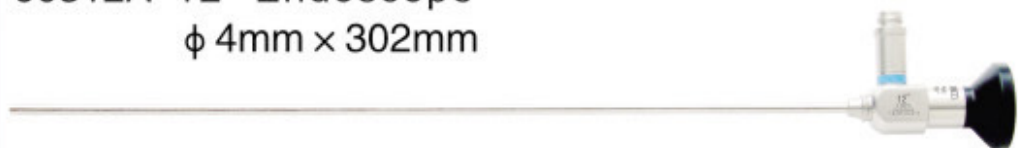
- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Adopt high temperature and high intensity 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)



Passive

## Cutting loops



Q6211 Cutting loops  
φ 4mm × 282mm



Q6301 Roll cutting loops  
φ 4mm × 287mm



Q6302 Spade-style cutting loops  
φ 4mm × 282mm



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



Q6213 Cutting tumour loops  
φ 4mm × 282mm



## Fistula instrument

Q4516 Fistula instrument  
16Fr × 95mm

Q4518 Fistula instrument  
18Fr × 95mm

Q4520 Fistula instrument  
20Fr × 95mm

Q4522 Fistula instrument  
22Fr × 95mm

Q4524 Fistula instrument  
24Fr × 95mm



## Sheath&obturator, Valve

Q4027A Outer sheath  
27Fr × 180mm



Q4077A Obturator for outer sheath  
(Active)



Q4025A Inner sheath&obturator  
25Fr × 195mm



T7202A In-flow valve



## HF cord,Suction device,Light cable

U8412B HF cord  
3m



U8307 Suction device (Hoffman-type)

U8303-3 Flexible tube

U8303-4 Connector

U8303-W Connector(Wolf)



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

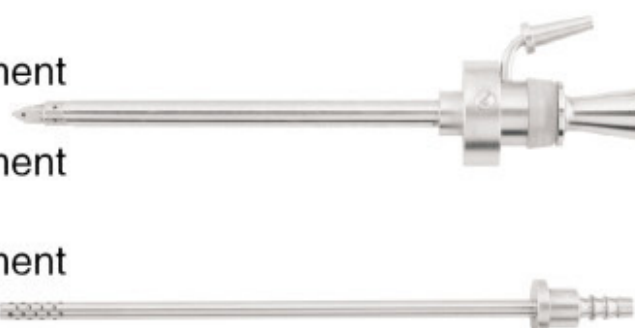


## Resectoscope QD-2 (Snap-in and out)

- ◆ 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 or passive can be chosen freely
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ Low temperature plasma sterilization can be used
- ◆ When the inner sheath & outer sheath keep still, working element, endoscope and cutting loops can rotate 360° freely, with continuous perfusion

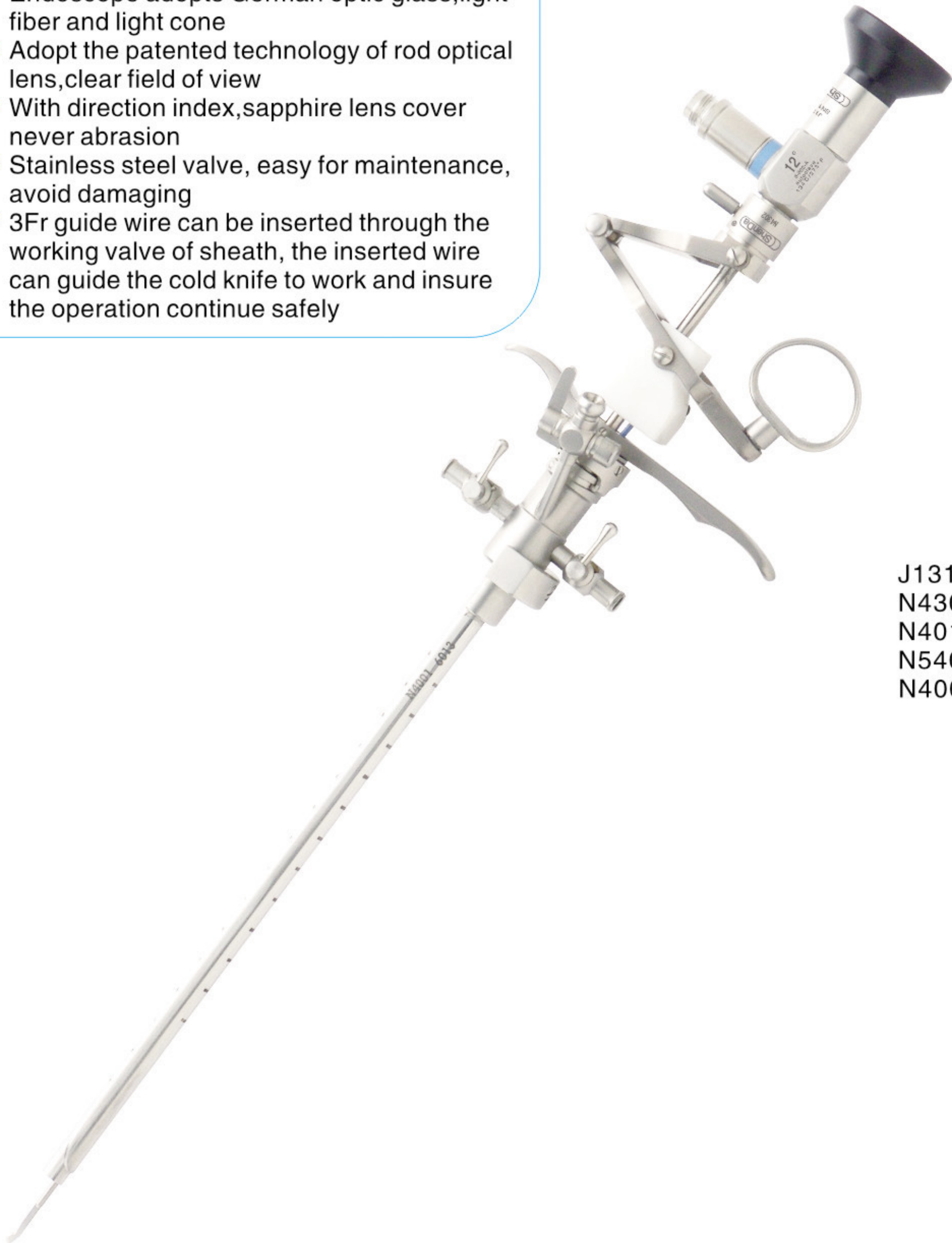


J0312D  
Q6020B  
Q4025B  
Q4027B

| Endoscope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sheath&obturator,Valve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>J0312D 12° Endoscope<br/>φ 4mm × 305mm</p>  <p>1 Connecting to SHENDA light cable<br/>Connecting to OLYMPUS light cable<br/>Connecting to STORZ light cable<br/>2 Connecting to WOLF light cable<br/>3 Connecting to ACMI light cable</p>                                                                                                                                                                                                                                                                                                | <p>Q4027B Outer sheath<br/>27Fr × 180mm</p>  <p>Q4077B Obturator for outer sheath(Active)</p>  <p>Q4025B Inner sheath&amp;obturator (Oblique lip)<br/>25Fr × 195mm</p>  <p>Q4033 Inner sheath valve</p>  <p>T7202A In-flow valve</p>                                                                        |
| Working element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HF cord,Suction device,Light cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Q6010B Working element(Active)</p> <p>Q6020B Working element(Passive)</p>  <p>Passive</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>U8412B HF cord<br/>3m</p>  <p>U8307 Suction device (Hoffman-type)<br/>U8303-3 Flexible tube<br/>U8303-4 Connector<br/>U8303-W Connector(Wolf)</p>  <p>U8601C Cleaning rod<br/>φ 3mm × 340mm</p>  <p>U8724 Light cable<br/>Φ 4mm × 2m<br/>U8724C Light cable<br/>Φ 4mm × 3m</p>  <p>1 Connecting to SHENDA fountain<br/>Connecting to WOLF fountain<br/>2 Connecting to STORZ fountain</p> |
| Cutting loops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fistula instrument                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Q6211 Cutting loops<br/>φ 4mm × 282mm</p>  <p>Q6301 Roll cutting loops<br/>φ 4mm × 287mm</p>  <p>Q6302 Spade-style cutting loops<br/>φ 4mm × 282mm</p>  <p>Q6221 Needle-style cutting loops<br/>φ 4mm × 287mm</p>  <p>Q6213 Cutting tumour loops<br/>φ 4mm × 282mm</p>  | <p>Q4516 Fistula instrument<br/>16Fr × 95mm</p> <p>Q4518 Fistula instrument<br/>18Fr × 95mm</p> <p>Q4520 Fistula instrument<br/>20Fr × 95mm</p> <p>Q4522 Fistula instrument<br/>22Fr × 95mm</p> <p>Q4524 Fistula instrument<br/>24Fr × 95mm</p>                                                                                                                                                                                                                                                                                                                                                                                                              |

## Urethrotome NQ-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
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ 3Fr guide wire can be inserted through the working valve of sheath, the inserted wire can guide the cold knife to work and insure the operation continue safely

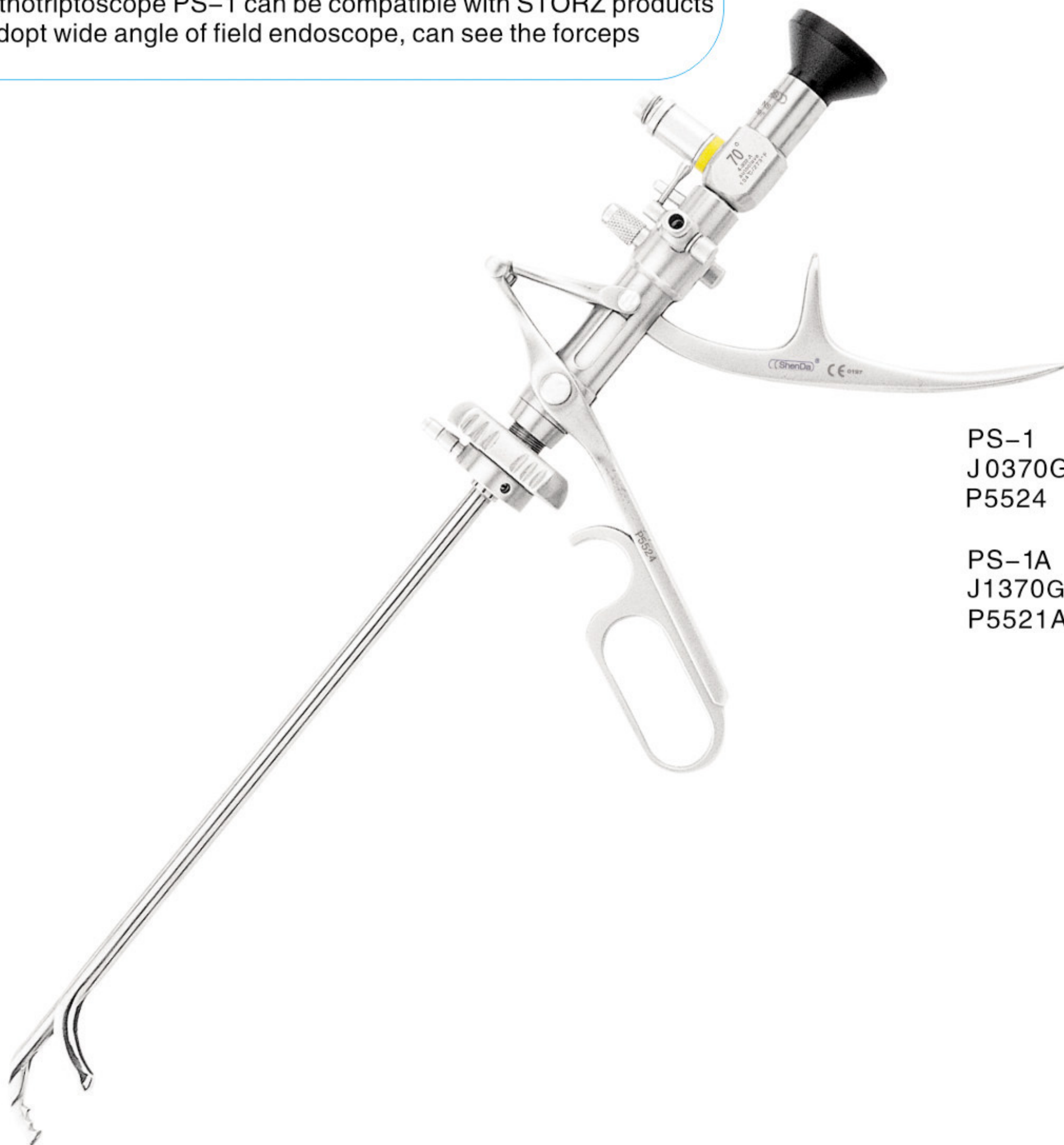


J1312A  
N4302  
N4018  
N5402  
N4001

| Endoscope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cold knife                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>J1312A 12° Endoscope<br/>φ 3mm × 302mm</p>  <p>1 Connecting to SHENDA light cable<br/>Connecting to OLYMPUS light cable<br/>Connecting to STORZ light cable<br/>2 Connecting to WOLF light cable<br/>3 Connecting to ACMI light cable</p>   | <p>N5401 Lance style knife<br/>φ 3mm × 282mm</p>  <p>N5402 Half round knife<br/>φ 3mm × 282mm</p>  <p>N5403 Triangle knife<br/>φ 3mm × 282mm</p>                                                                                                                                                                                                                                               |
| Cutting device, Sheath & obturator, Half-round sheath                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Light cable, Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <p>N4302 Cutting device</p>  <p>N4018 Sheath &amp; obturator<br/>18.5Fr × 200mm</p>  <p>N4001 Half-round sheath<br/>25Fr × 180mm</p>                                                                                                       | <p>N5804 Ureter catheter<br/>3Fr</p>  <p>T7303 Sealed cap</p>  <p>U8601C Cleaning rod<br/>φ 3mm × 340mm</p>  <p>U8724 Light cable<br/>Φ 4mm × 2m<br/>U8724C Light cable<br/>Φ 4mm × 3m</p>  <p>1 Connecting to SHENDA fountain<br/>Connecting to WOLF fountain<br/>2 Connecting to STORZ fountain</p> |

## Lithotriptoscope(PS-1,PS-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
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ The autoclavable endoscope can be chosen
- ◆ Lithotriptoscope PS-1 can be compatible with STORZ products
- ◆ Adopt wide angle of field endoscope, can see the forceps



PS-1  
J0370G  
P5524

PS-1A  
J1370G  
P5521A

## Lithotriptoscope PS-1

J0370G 70° Endoscope (Angle of field: 90° )  
 $\phi$  4mm  $\times$  302mm



P5524 Stone forceps  
 24Fr  $\times$  220mm



N4021 Sheath & obturator  
 21Fr  $\times$  230mm



## Lithotriptoscope PS-1A

J1370G 70° Endoscope  
 $\phi$  3mm  $\times$  302mm



P5521A Stone forceps  
 21Fr



N4021 Sheath & obturator  
 21Fr  $\times$  230mm



## Light cable, Suction device

U8303 Suction device (Allik)  
 U8303-1 Rubber ball  
 U8303-2 Glass bottle  
 U8303-3 Flexible tube  
 U8303-4 Connector  
 U8303-W Connector (Wolf)



U8724 Light cable  
 $\Phi$  4mm  $\times$  2m  
 U8724C Light cable  
 $\Phi$  4mm  $\times$  3m



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

## Light cable, Suction device

U8303 Suction device (Allik)  
 U8303-1 Rubber ball  
 U8303-2 Glass bottle  
 U8303-3 Flexible tube  
 U8303-4 Connector  
 U8303-W Connector (Wolf)



U8724 Light cable  
 $\Phi$  4mm  $\times$  2m  
 U8724C Light cable  
 $\Phi$  4mm  $\times$  3m



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

## Lithotriptoscope(PS-3)

- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and lightcone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover, never abrasion
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ The autoclavable endoscope can be chosen
- ◆ The abnormal straight tube lithotriptoscope has better insertability, less trauma and convenient, simple operation
- ◆ Increasing the contact area of the abnormal straight tube lithotriptoscope and the calculi, with sharp lithotriptoscope mouth



PS-3  
J0312A  
P5525A

## Lithotriptoscope PS-3(Abnormal straight)

J0312A 12° Endoscope  
φ 4mm × 302mm



P5525A Abnormal straight tube forceps  
25Fr × 240mm



(Sheath included)

P4025A Sheath&obturator  
25Fr × 220mm

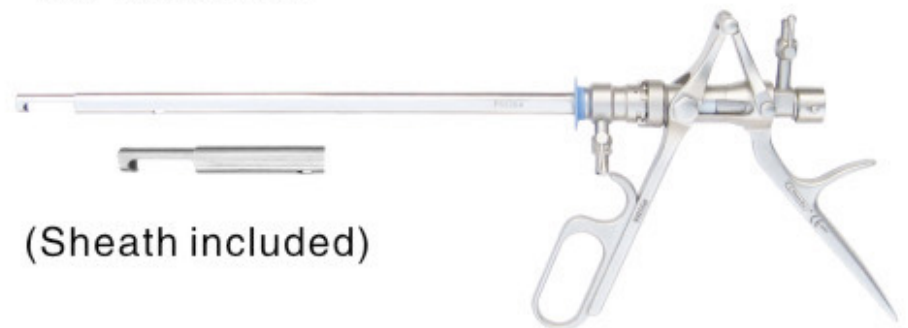


## Lithotriptoscope PS-3(Abnormal straight, Continuous water)

J0312A 12° Endoscope  
φ 4mm × 302mm



P5526A Abnormal straight tube forceps  
(Continuous water)  
25Fr × 234mm



(Sheath included)

P4026A Sheath&obturator  
25Fr × 212mm



T7201D In-flow valve



T7211D Out-flow valve



## Light cable, Suction device

U8303 Suction device(Allik)  
U8303-1 Rubber ball  
U8303-2 Glass bottle  
U8303-3 Flexible tube  
U8303-4 Connector  
U8303-W Connector (Wolf)



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

## Light cable, Suction device

U8303 Suction device(Allik)  
U8303-1 Rubber ball  
U8303-2 Glass bottle  
U8303-3 Flexible tube  
U8303-4 Connector  
U8303-W Connector (Wolf)



U8724 Light cable  
Φ 4mm × 2m

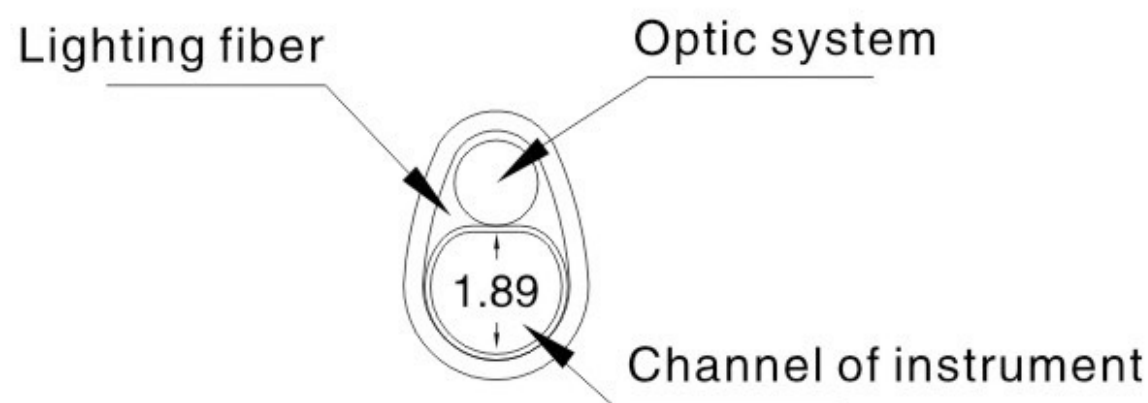
U8724C Light cable  
Φ 4mm × 3m



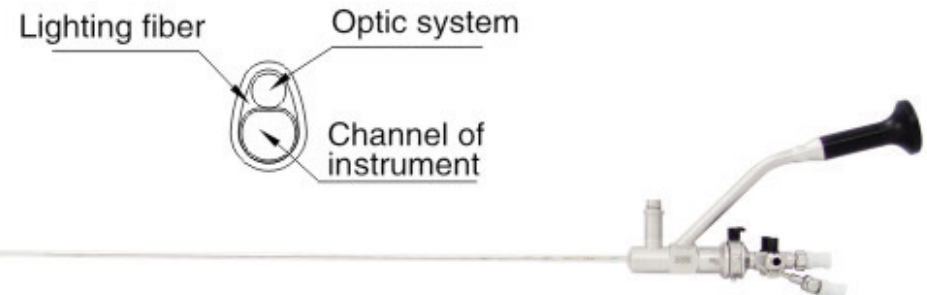
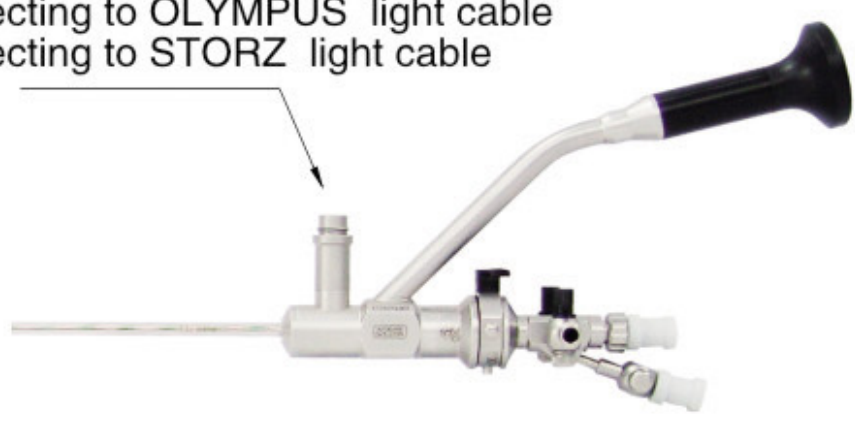
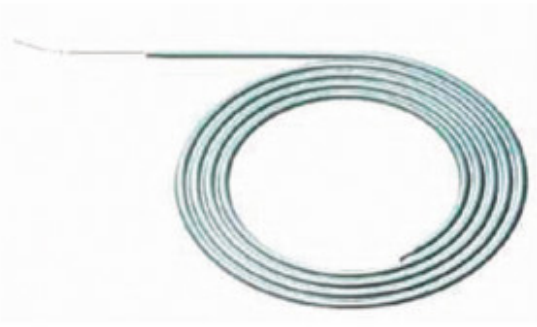
1 Connecting to SHENDA fountain  
Connecting to WOLF fountain  
2 Connecting to STORZ fountain

## Ureteroscope SNJ-1

- ◆ Endoscope adopt imported stainless steel material, assembled in Germany
- ◆ Adopt the imported image bundles, can stand proper bending
- ◆ Eliminate the reticulate pattern in the field of view, make image clear
- ◆ With direction index, sapphire lens cover, never abrasion
- ◆ Sleek insert part, tapering outer sheath, avoid scratches
- ◆ The angle of direction is  $5^{\circ}$ , easy to observe the position of instrument in the field of view
- ◆ Separate endoscope from water valve and instrument, easy to disinfect and operate
- ◆ All instruments adopt imported stainless steel material
- ◆ Double water valves make the perfusion smooth

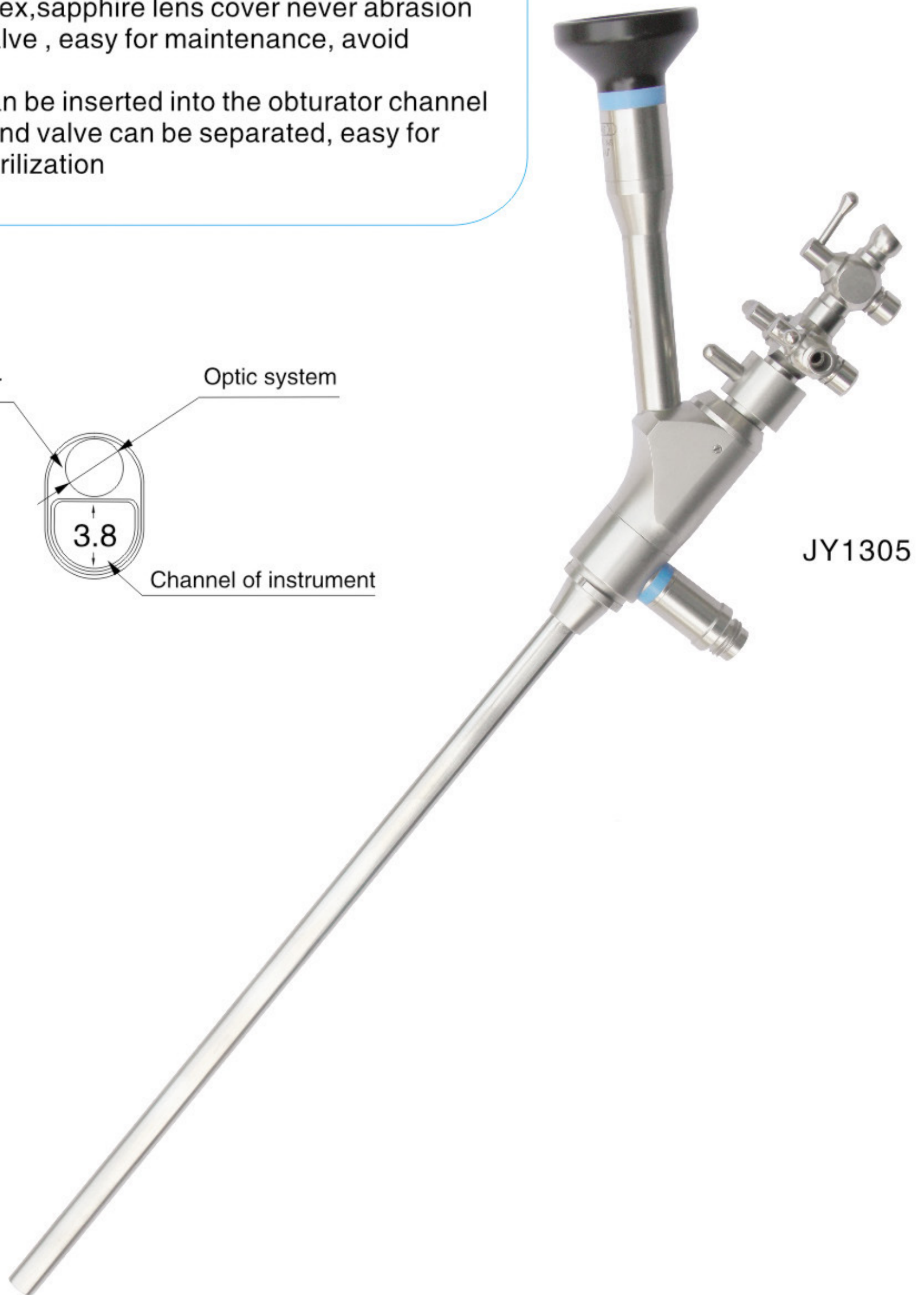
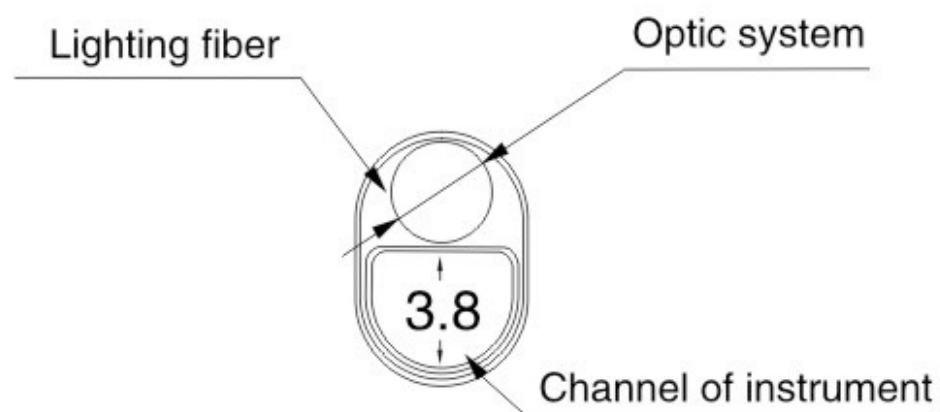


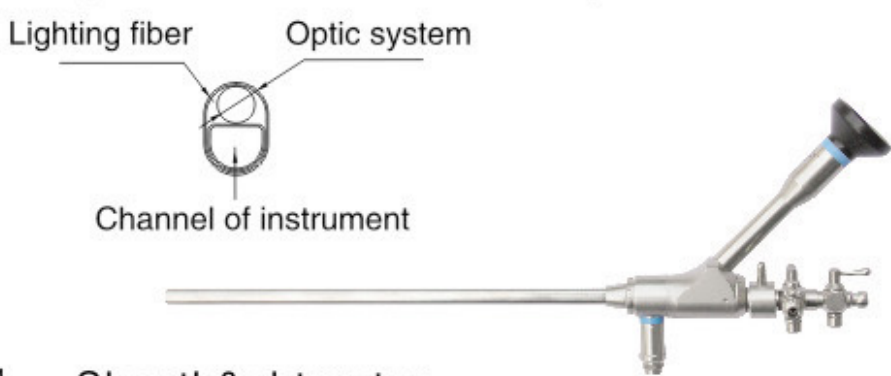
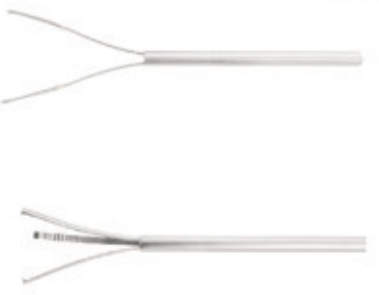
JY0604D

| Endoscope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Dilator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JY0604D 5° Ureteroscope<br/>7.5Fr-10Fr<br/>Working length 425mm<br/>(Matched with 5Fr instrument)</p>  <p>Lighting fiber      Optic system<br/>Channel of instrument</p> <p>Connecting to SHENDA light cable<br/>Connecting to OLYMPUS light cable<br/>Connecting to STORZ light cable</p>                                            | <p>S5609 Dilator<br/>9Fr × 600mm</p>  <p>S5610 Dilator<br/>10Fr × 600mm</p>  <p>S5612 Dilator<br/>12Fr × 600mm</p>  <p>S5613 Dilator<br/>13.5Fr × 600mm</p>       |
| Instrument, Stone basket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Light cable, Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  <p>S5051 Rigid biopsy forceps<br/>5Fr × 605mm</p>  <p>S5052 Rigid foreign body forceps<br/>5Fr × 605mm</p>  <p>S5854 Stone basket<br/>(Revolving style)</p>  | <p>S5803 Guide wire<br/>3Fr</p>  <p>T7303 Sealed cap</p>  <p>U8724 Light cable<br/>Φ4mm × 2m<br/>U8724C Light cable<br/>Φ4mm × 3m</p>  <p>1 Connecting to SHENDA fountain<br/>Connecting to WOLF fountain<br/>2 Connecting to STORZ fountain</p> |

## Transcutaneous nephroscope JS-1 (19.5Fr)

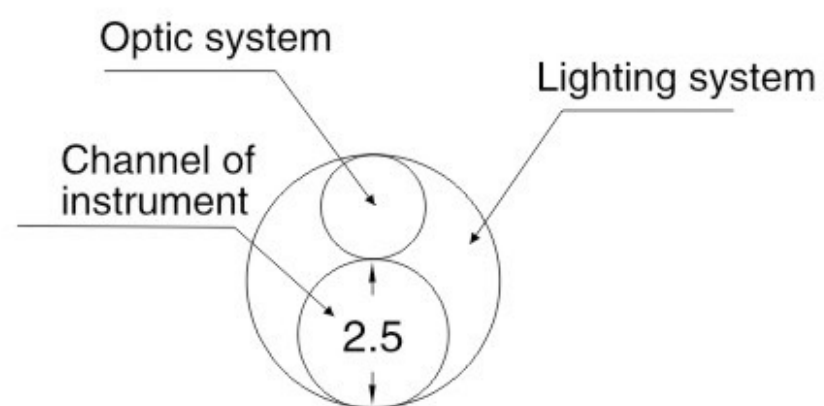
- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ The guide wire can be inserted into the obturator channel
- ◆ The endoscope and valve can be separated, easy for operation and sterilization



| Endoscope, Sheath & Obturator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Instrument                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JY1305 5° Oblique endoscope<br/>19.5Fr × 205mm<br/>(Matched with 10.5Fr instrument)</p>  <p>S4024 Sheath&amp;obturator<br/>24Fr × 185mm</p>                                                                                                                                                                                                                       |  <p>S5043 Alligator mouth grasping forceps<br/>9Fr × 360mm</p>  <p>S5044 Biopsy grasping forceps<br/>9Fr × 360mm</p> |
| Puncture cannula, Dilating cannula, Dilator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Light cable, Accessories                                                                                                                                                                                                                                                                   |
| <p>S4506 Puncture cannula<br/>6Fr × 206mm</p>  <p>S5611 Dilating cannula<br/>11Fr × 135mm</p>  <p>S5621A Dilator<br/>8–24Fr</p>                                                                                                                                              | <p>S5045 Peanut forceps<br/>9Fr × 360mm</p>  <p>T7201 In-flow valve</p>                                          |
| Dilating rod, Groove cannula, Suction tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                            |
| <p>S5639 Rigid dilating rod<br/>9Fr × 580mm</p>  <p>S5649 Flexible dilating rod<br/>9Fr × 580mm</p>  <p>S4424 Groove cannula<br/>24Fr</p>  <p>S4410 Suction tube<br/>10.5Fr × 350mm</p>  | <p>T7211 Out-flow valve</p>  <p>T7303 Sealed cap</p>                                                             |
| Instrument(U shape spring handle)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                            |
|  <p>S5041 Saw-tooth grasping forceps<br/>9Fr × 370mm</p>  <p>S5042 Stone forceps<br/>9Fr × 365mm</p>                                                                                                                                                                                                                                                             | <p>U8724 Light cable<br/>Φ4mm × 2m</p> <p>U8724C Light cable<br/>Φ4mm × 3m</p>  <p>1 Connecting to SHENDA fountain<br/>Connecting to WOLF fountain<br/>2 Connecting to STORZ fountain</p>             |

## Transcutaneous nephroscope JS-1 (15Fr)

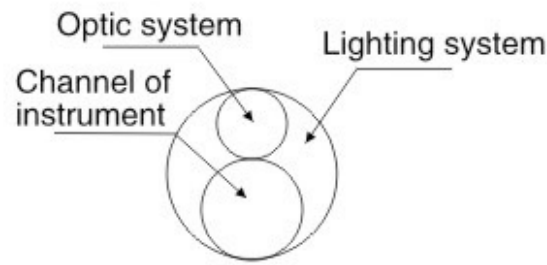
- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Stainless steel valve, easy for maintenance, avoid damaging



JY2312

## Endoscope

JY2312 12° Oblique endoscope  
15Fr × 280mm  
(Matched with 6Fr instrument)



## Puncture cannula, Dilating cannula, Dilator

S4506 Puncture cannula  
6Fr × 206mm



S5611 Dilating cannula  
11Fr × 135mm



S5621B Dilator  
8–22.5Fr



## Dilating rod

S5639 Rigid dilating rod  
9Fr × 580mm



S5649 Flexible dilating rod  
9Fr × 580mm



## Instrument (U shape spring handle)



S5050 Rigid grasping forceps  
5Fr × 420mm



## Instrument



S5048A Saw-tooth grasping forceps  
6Fr × 420mm



## Light cable, Accessories

T7201 In-flow valve



T7211 Out-flow valve



T7303 Sealed cap



U8724 Light cable  
Φ4mm × 2m

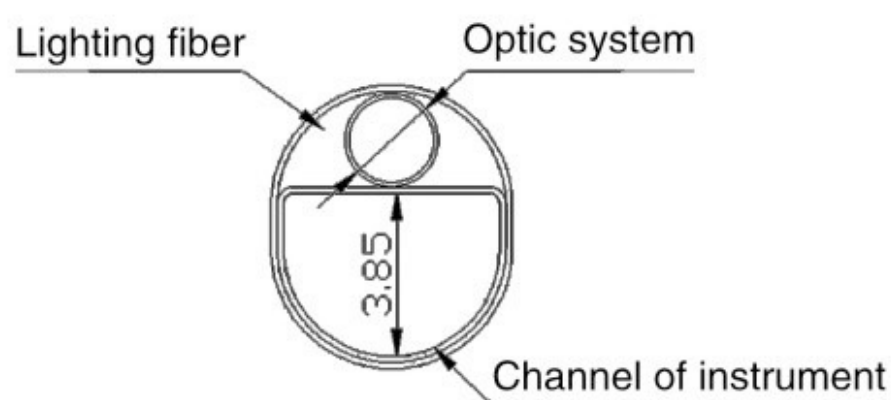
U8724C Light cable  
Φ4mm × 3m



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

## Transcutaneous nephroscope JS-1W (19Fr)

- ◆ Endoscope and scissors all adopt 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
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ The guide wire can be inserted into the obturator channel

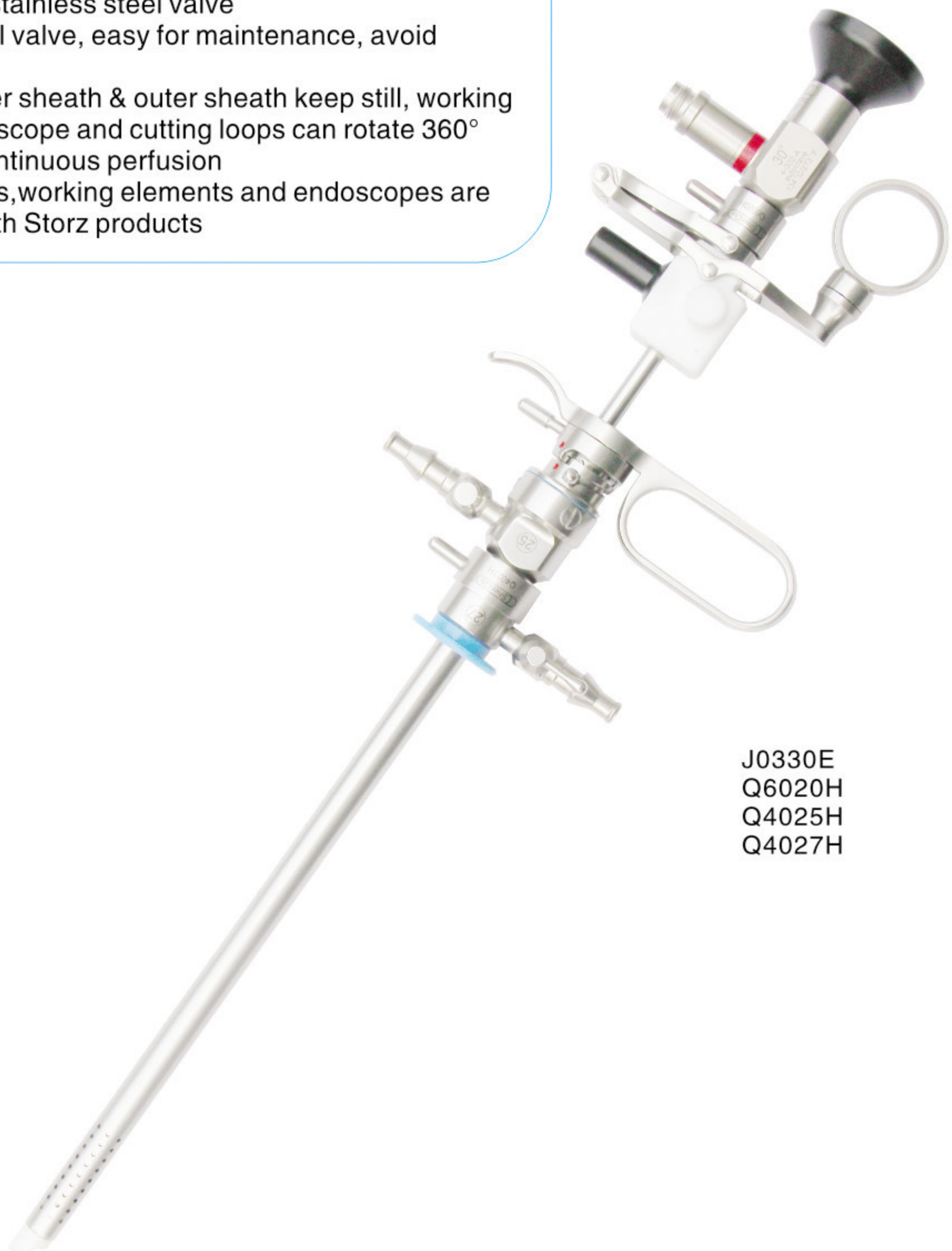


JY1312W

| Endoscope, Sheath & Obturator                                                                                                                                         | Instrument                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JY1312W 12° Endoscope<br/>19Fr × 230mm<br/>(Matched with 11.1Fr instrument)</p>  |                                                                        |
| <p>S4024T Outer sheath ( match with JY1312W )<br/>24Fr × 150mm</p>                  | <p>S5043 Alligator mouth grasping forceps<br/>9Fr × 360mm</p>          |
| <p>S4021T Sheath &amp; obturator<br/>21Fr × 200mm</p>                               | <p>S5044 Biopsy grasping forceps<br/>9Fr × 360mm</p>                   |
|                                                                                                                                                                       | <p>S5045 Peanut forceps<br/>9Fr × 360mm</p>                            |
| Puncture cannula, Dilating cannula, Dilator                                                                                                                           | Light cable, Accessories                                                                                                                                  |
| <p>S4506 Puncture cannula<br/>6Fr × 206mm</p>                                     | <p>T7201 In-flow valve</p>                                           |
| <p>S5611 Dilating cannula<br/>11Fr × 135mm</p>                                    | <p>T7211 Out-flow valve</p>                                          |
| <p>S5621C Dilator (Match with S4024T)<br/>9-24Fr</p>                              | <p>JY0530-0-15 Sealed cap</p>                                        |
| Dilating rod, Groove cannula, Suction tube                                                                                                                            |                                                                                                                                                           |
| <p>S5639 Rigid dilating rod<br/>9Fr × 580mm</p>                                   | <p>U8601C Cleaning rod<br/>Φ 3mm × 340mm</p>                         |
| <p>S5649 Flexible dilating rod<br/>9Fr × 580mm</p>                                | <p>U8724 Light cable<br/>Φ 4mm × 2m</p>                              |
| <p>S4424T Groove cannula (Match with S4024T)<br/>24Fr × 140mm</p>                 | <p>U8724C Light cable<br/>Φ 4mm × 3m</p>                             |
| <p>S4410 Suction tube<br/>10.5Fr × 350mm</p>                                      | <p>1 Connecting to SHENDA fountain<br/>Connecting to WOLF fountain<br/>2 Connecting to STORZ fountain</p>                                                 |
| Instrument (U shape spring handle)                                                                                                                                    | Accessories                                                                                                                                               |
|                                                                                   | <p>S4022T1 Outer sheath ( match with JY1312W )<br/>22Fr × 150mm</p>  |
| <p>S5041 Saw-tooth grasping forceps<br/>9Fr × 370mm</p>                            | <p>S4422T Groove cannula<br/>22Fr × 140mm</p>                        |
| <p>S5042 Stone forceps<br/>9Fr × 365mm</p>                                         | <p>S5621D Dilator<br/>9-22Fr</p>                                     |

## 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
- ◆ The unique 30° endoscope, more convenient and the view is wider
- ◆ Adopt high temperature and high intensity ceramic
- ◆ Big diameter stainless steel valve
- ◆ 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
- ◆ The electrodes, working elements and endoscopes are compatible with Storz products



J0330E  
Q6020H  
Q4025H  
Q4027H

## Endoscope

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



## Working element

Q6020H Working element(Passive)  
Q6010H Working element(Active)



## Sheath&obturator,Valve

Q4027H Outer sheath  
26Fr × 180mm



Q4077H Obturator for outer sheath  
(Active)



Q4025H Inner sheath&obturator (Oblique lip)  
24Fr × 195mm



T7202A In-flow valve



## Cutting loops

Q6211 S3 Cutting loops  
φ 4mm × 281mm



Q6301 S1 Roll cutting loops  
φ 4mm × 287mm



Q6302 S1 Spade-style cutting loops  
φ 4mm × 282mm



Q6221 S1 Needle-style cutting loops  
φ 4mm × 288mm



## Fistula instrument

Q4516 Fistula instrument  
16Fr × 95mm

Q4518 Fistula instrument  
18Fr × 95mm

Q4520 Fistula instrument  
20Fr × 95mm

Q4522 Fistula instrument  
22Fr × 95mm

Q4524 Fistula instrument  
24Fr × 95mm



## HF cord,Suction device,Light cable

U8412B HF cord  
3m



U8307 Suction device (Hoffman-type)  
U8303-3 Flexible tube  
U8303-4 Connector  
U8303-W Connector(Wolf)



U8601C Cleaning rod  
φ 3mm × 340mm



U8724 Light cable  
φ 4mm × 2m

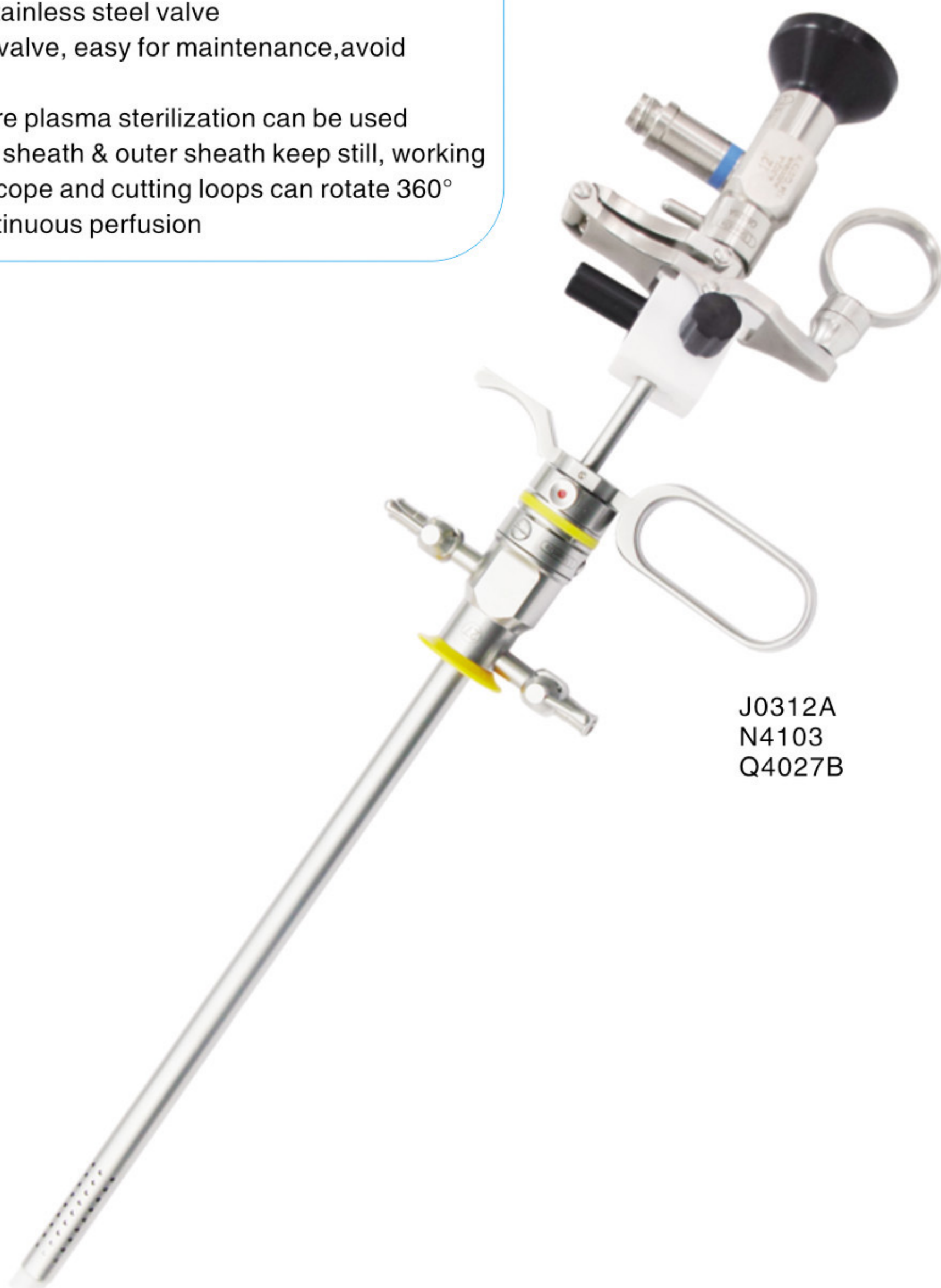
U8724C Light cable  
φ 4mm × 3m



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

## Thulium laser apparatus

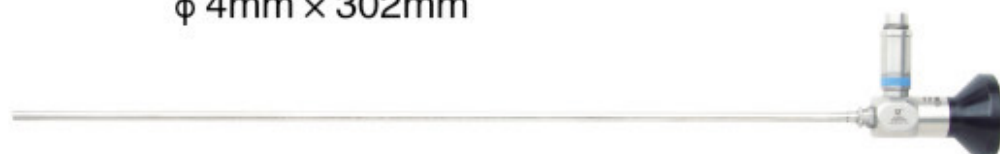
- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Big diameter stainless steel valve
- ◆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



J0312A  
N4103  
Q4027B

## Endoscope

J0312A 12° Endoscope  
φ 4mm × 302mm



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



## Sheath&obturator,Valve

Q4027B Flat lip outer sheath



N4023S Visible obturator



Q4077B Obturator for outer sheath(Active)



Q4033 Inner sheath valve



T7202A In-flow valve



## Working element

N4103 Working element



## Cutting loops

N5901 Tooth-shaped grapnel



## Guide tube

N5801 Guide tube

N5802 Guide tube



## Cleaning rod、Light cable

U8601C Cleaning rod  
φ 3mm × 340mm



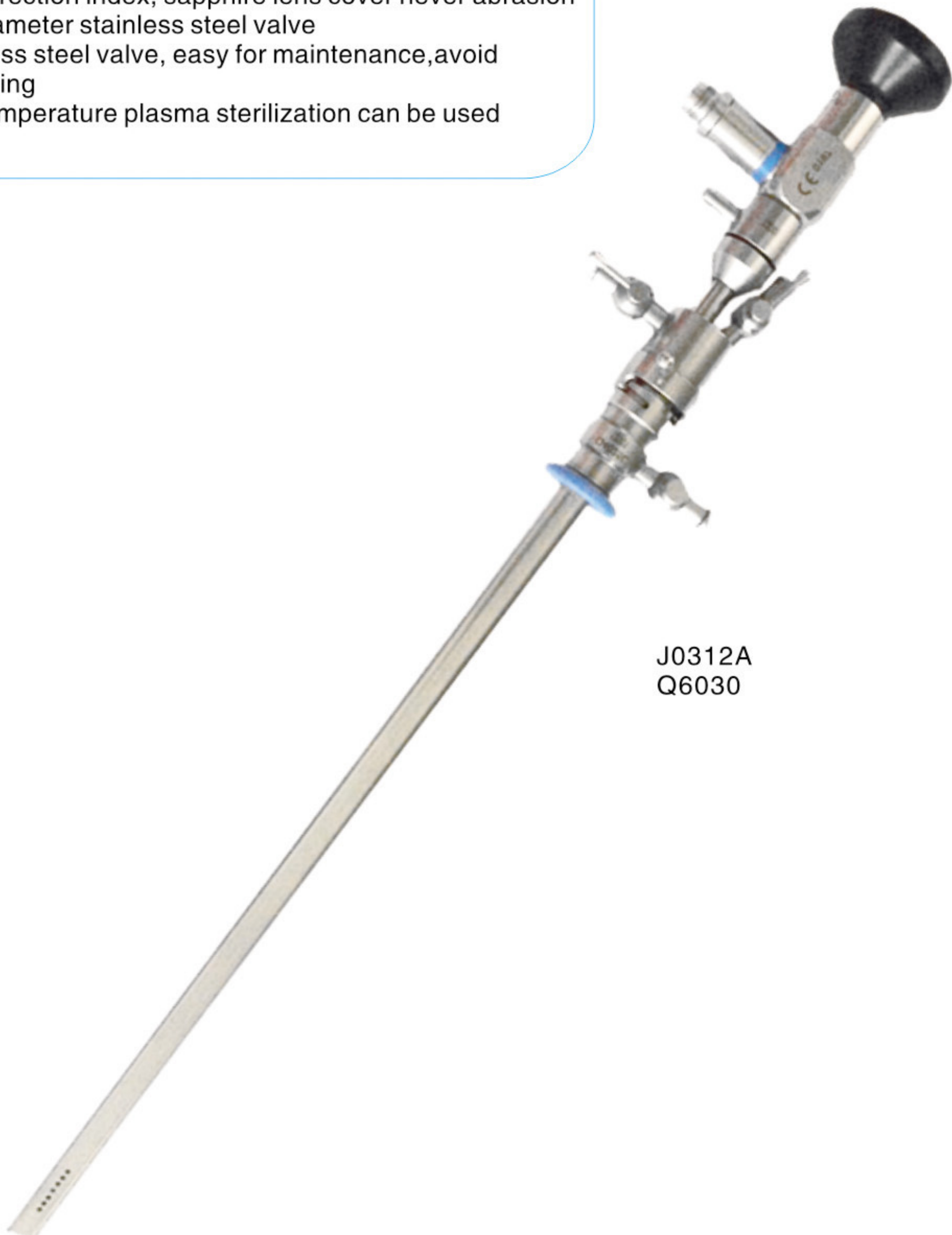
U8724 Light cable  
Φ 4mm × 2m



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

## Green laser apparatus

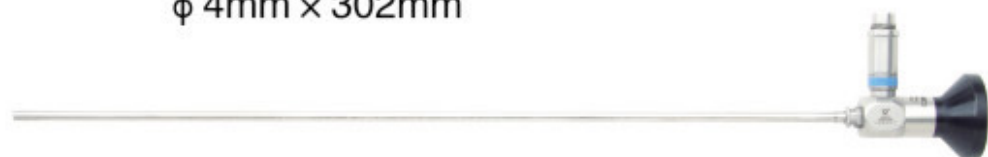
- ◆ Endoscope adopts imported stainless steel material
- ◆ Endoscope adopts German optic glass, light fiber and light cone
- ◆ Adopt the patented technology of rod optical lens, clear field of view
- ◆ With direction index, sapphire lens cover never abrasion
- ◆ Big diameter stainless steel valve
- ◆ Stainless steel valve, easy for maintenance, avoid damaging
- ◆ Low temperature plasma sterilization can be used



J0312A  
Q6030

## Endoscope

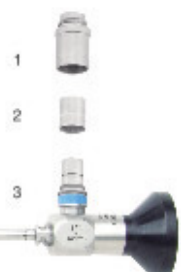
J0312A 12° Endoscope  
φ 4mm × 302mm



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



## Working element

Q6030 Working element



## Sheath& Obturator

Q4025L Outer sheath



Q4022L Visible obturator



## Valve、Sealed cap

T7201 Water valve



T7211 Water valve



T7303 Sealed cap



## Cleaning rod、Light cable

U8601C Cleaning rod  
φ 3mm × 340mm

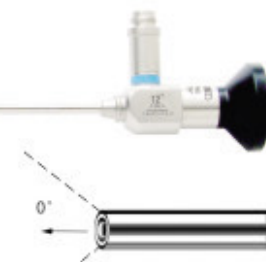
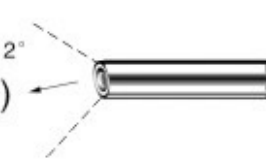
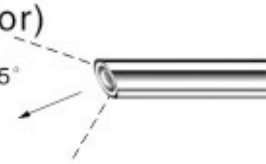
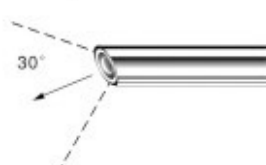
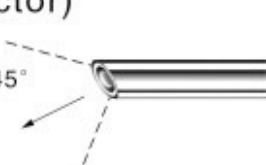
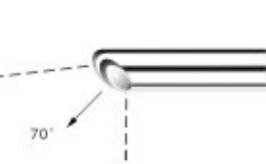


U8724 Light cable  
Φ4mm × 2m



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

## Endoscope

|         |                                                      |                                                                                      |
|---------|------------------------------------------------------|--------------------------------------------------------------------------------------|
| J0300G  | 0° Endoscope(Angle of field: 90° )<br>φ 4mm × 302mm  |    |
| J0300B  | 0° Endoscope(Olympus connector)<br>φ 4mm × 281mm     |                                                                                      |
| J2200T1 | 0° Endoscope<br>φ 2.7mm × 302mm                      |                                                                                      |
| J0312YG | 12° Endoscope(GYRUS connector)<br>φ 4mm × 300mm      |    |
| J0312B  | 12° Endoscope(Olympus connector)<br>φ 4mm × 280mm    |                                                                                      |
| SD0325  | 25° Endoscope(WOLF connector)<br>φ 4 × 300.5mm       |                                                                                      |
| J0325GY | 25° Endoscope(GYRUS connector)<br>φ 4mm × 301.7mm    |  |
| J0330G  | 30° Endoscope(Angle of field: 90° )<br>φ 4mm × 302mm |  |
| J2330   | 30° Endoscope<br>φ 2.7mm × 302mm                     |                                                                                      |
| J3330   | 30° Endoscope<br>φ 2.9mm × 302mm                     |                                                                                      |
| J0330YG | 30° Endoscope (GYRUS connector)<br>φ 4mm × 301mm     |                                                                                      |
| SD0330  | 30° Endoscope (ACMI connector)<br>φ 4mm × 301mm      |                                                                                      |
| J0330B  | 30° Endoscope(Olympus connector)<br>φ 4mm × 281mm    |  |
| J0345E  | 45° Endoscope<br>φ 4mm × 302mm                       |                                                                                      |
| J2370   | 70° Endoscope<br>φ 2.7mm × 302mm                     |  |
| SD0370  | 70° Endoscope(WOLF connector)<br>φ 4mm × 303mm       |                                                                                      |
| J0370B  | 70° Endoscope(Olympus connector)<br>φ 4mm × 282mm    |                                                                                      |

## Dilator

### Multifunctional dilator 8–32Fr



|       |      |       |      |       |      |
|-------|------|-------|------|-------|------|
| N5608 | 8Fr  | N5610 | 10Fr | N5612 | 12Fr |
| N5614 | 14Fr | N5616 | 16Fr | N5618 | 18Fr |
| N5620 | 20Fr | N5622 | 22Fr | N5624 | 24Fr |
| N5626 | 26Fr | N5628 | 28Fr | N5630 | 30Fr |
| N5632 | 32Fr |       |      |       |      |

### Middle empty dilator 10–32Fr



|        |      |        |      |        |      |
|--------|------|--------|------|--------|------|
| N5610A | 10Fr | N5612A | 12Fr | N5614A | 14Fr |
| N5616A | 16Fr | N5618A | 18Fr | N5620A | 20Fr |
| N5622A | 22Fr | N5624A | 24Fr | N5626A | 26Fr |
| N5628A | 28Fr | N5630A | 30Fr | N5632A | 32Fr |

## Adjustable dilator

### N5640 Adjustable dilator 17–30Fr



## Visiable urethra–diator

### N5642 Visiable urethra–dilator (8Fr–26Fr)



|      |                 |
|------|-----------------|
| 8Fr  | Head of dilator |
| 10Fr | Head of dilator |
| 12Fr | Head of dilator |
| 15Fr | Head of dilator |
| 18Fr | Head of dilator |
| 20Fr | Head of dilator |
| 24Fr | Head of dilator |
| 26Fr | Head of dilator |



## Rigid instrument for cystoscope

- Working length 240mm
- J0330E  
N5031  
N4021
- N5001 0° Rigid biopsy forceps
- N5002 0° Rigid foreign body forceps
- N5031 30° Rigid biopsy forceps  
N5071 70° Rigid biopsy forceps
- N5032 30° Rigid foreign body forceps  
N5072 70° Rigid foreign body forceps
- N5331 30° Rigid scissors

## Suction device 、 Tray for fistula instrument

- U8302B Suction device (needle-tube type)
- U8303 Suction device (Allik)  
U8303-1 Rubber ball  
U8303-2 Glass bottle  
U8305 Allik adapter (match with S4024 JS-1)
- Q4516P Tray for fistula instrument 16Fr  
Q4518P Tray for fistula instrument 18Fr  
Q4520P Tray for fistula instrument 20Fr  
Q4522P Tray for fistula instrument 22Fr  
Q4524P Tray for fistula instrument 24Fr

## Endoscope bridge

- N4202 Endoscope bridge (Double channels)  
N4200 Endoscope bridge (Without channel)



## Urethrotome (Used with $\phi$ 4mm endoscope)

- J0312A 12° Endoscope  $\phi$  4mm  $\times$  302mm
- N4303 Cutting device
- N4021A Sheath & obturator 21Fr  $\times$  200mm
- N4001A Half-round sheath 25Fr  $\times$  180mm
- N5401A Lance style knife  $\phi$  4mm  $\times$  284mm  
N5402A Half round knife  $\phi$  4mm  $\times$  284mm  
N5403A Triangle knife  $\phi$  4mm  $\times$  284mm

## Penis clamp, Coagulation electrode

- N4701 Penis clamp
- N6406 Coagulation electrode 6Fr  $\times$  455mm



## 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 CO<sub>2</sub> insufflator



U9401 QG-II  
Automatic high flow CO<sub>2</sub> 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 CO<sub>2</sub> 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



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

## Endoscope disinfection box、Instruments disinfection box

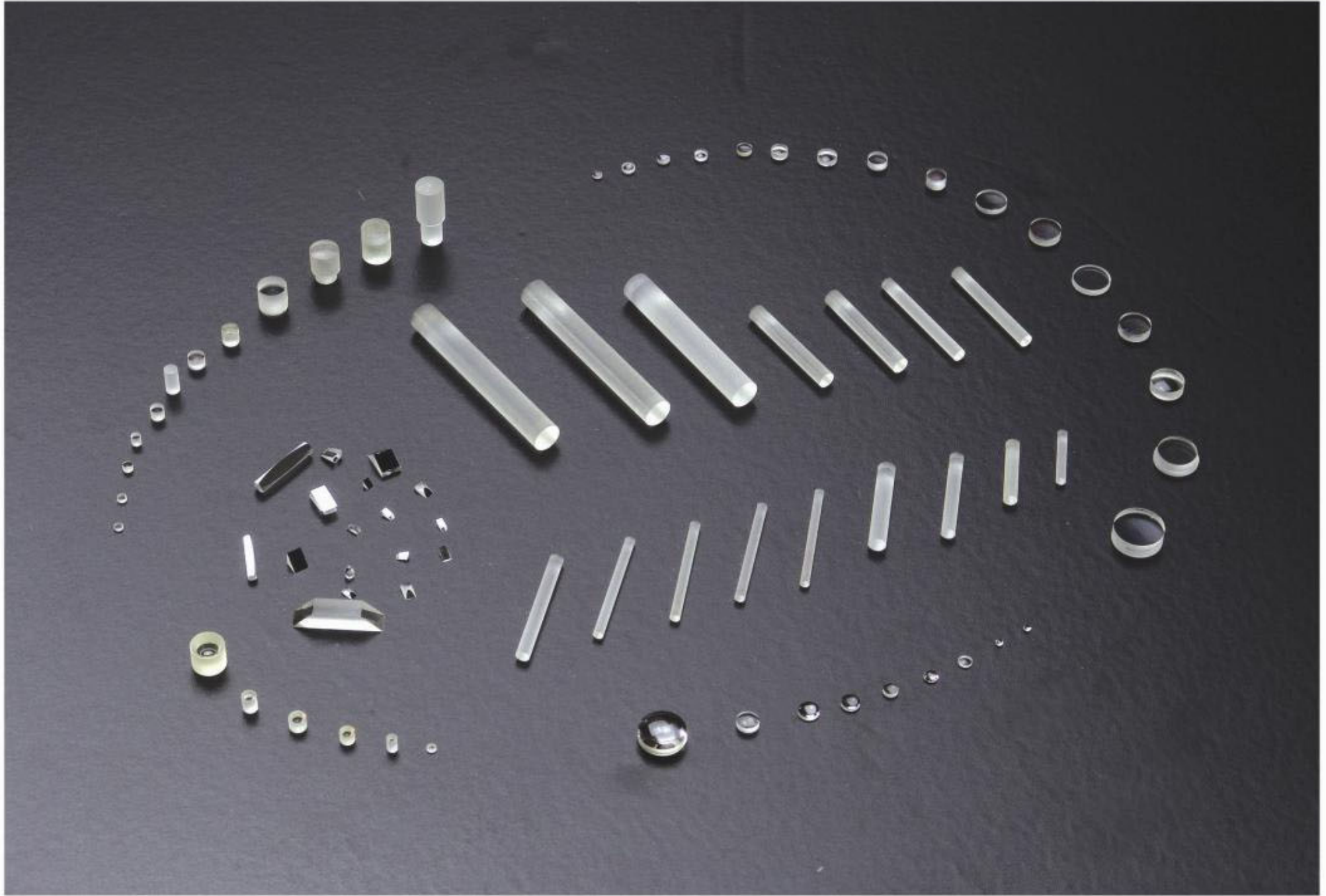


Endoscope disinfection box

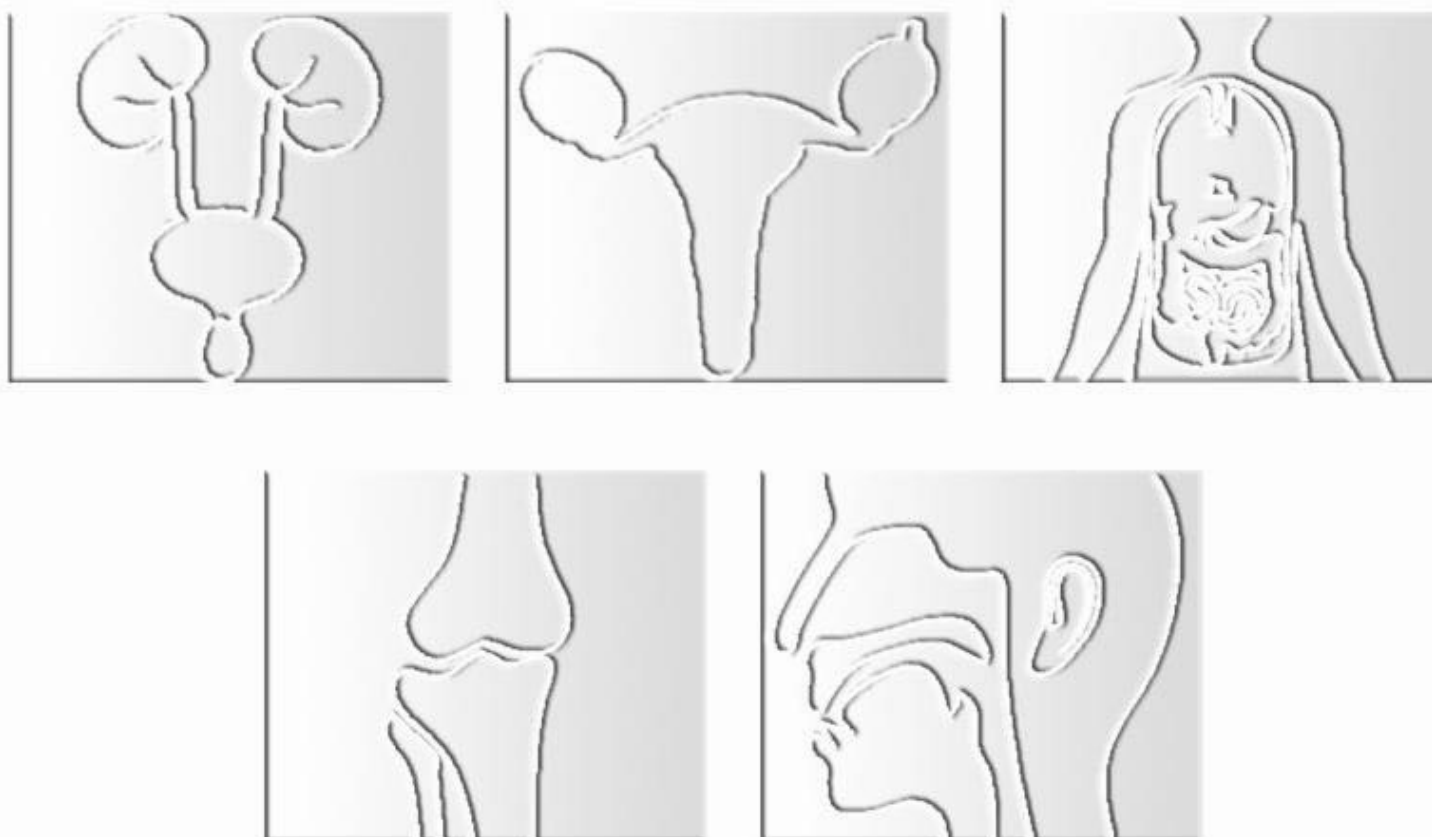
| Name                     | Specification                       | Note                  |
|--------------------------|-------------------------------------|-----------------------|
| Laparoscope instruments  | 560mm $\times$ 235mm $\times$ 75mm  | For instruments       |
| Laparoscope instruments  | 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!



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