

Surgical Endoscopy



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Surgery

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ENDO-EYE FLEX

Deflectable Videoscope



Surgery



- HDTV
HDTV image quality in an autoclavable deflectable videoscope



- Chip-on-the-Tip
The advanced Chip-on-the-Tip enables the ENDOEYE FLEX to provide bright, clear images.



- Focus-free
Advanced optical design provides greater depth of field eliminating manual focusing.



- Angulation (100 degrees)
The ENDOEYE FLEX can bend up to 100 degrees in four directions. This means the relevant organs and tissues can be thoroughly examined head-on, from above and from behind.

- Streamlined setup
The integrated all-in-one design of the ENDOEYE FLEX videoscope enables easy setup.

- Autoclavability
All Olympus surgical scopes are now autoclavable.

- NBI (Narrow Band Imaging)
NBI is a proprietary optical image enhancement technology that is only available on OLYMPUS products. NBI enhances the visualization of vessels and other tissues on the mucosal surface and is 20 % brighter compared to previous models.



LTF-S190-5

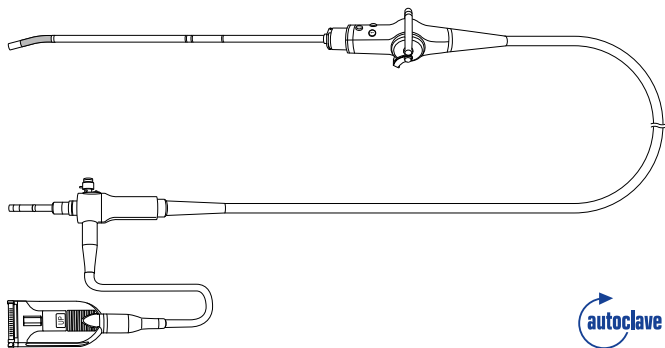
ENDOEYE FLEX
5 mm Deflectable Videoscope



Surgery

- HDTV image quality in a 5 mm autoclavable deflectable videoscope
- Chip-on-the-Tip
- Focus-free
- NBI (Narrow Band Imaging)

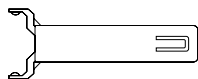
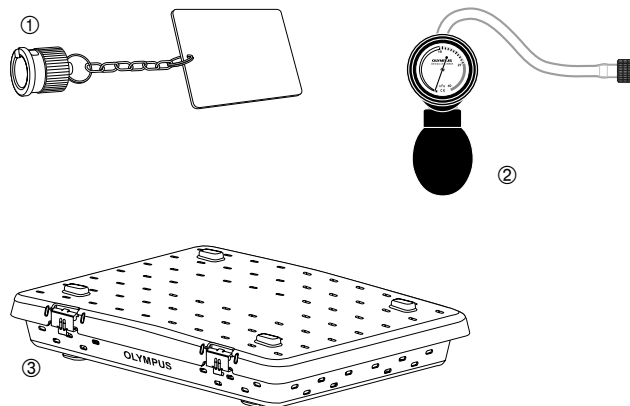


5 mm ENDOEYE FLEX Deflectable Videoscope**N3828050** Videoscope "LTF-S190-5"**Delivery includes:**

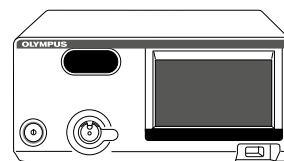
Videoscope, sterilization cap MAJ-1538, leakage tester, cleaning brush MAJ-1339, trocar introducer MAJ-1379

Technical Data

Optical system	
Field of view	85°
Direction of view	0°
Depth of field	18–100 mm
Insertion portion	
Distal end outer diameter	5.4 Fr.
Rigid section outer diameter	5.3 mm
Working length	370 mm
Working length with trocar introducer	330 mm
Bending section	
Angulation range	100° up, 100° down 100° right, 100° left
Total length	3600 mm
Compatibility	
NBI observation mode	available
HF treatment	available
Laser treatment	not available
Safety	
Directive 93/42/EEC	class IIa
Protection against electric shock	type BF applied part Ambient conditions
Operation temperature	10–40 °C
relative humidity	30–85%
atmospheric pressure	700–1060 hPa
Storage temperature	5–40 °C
relative humidity	10–95%
atmospheric pressure	700–1060 hPa
Transport temperature	–47–70 °C
relative humidity	10–95%
atmospheric pressure	700–1060 hPa

Accessories**N3831930** Trocar introducer "MAJ-1379",
for LTF 5 mm**Reprocessing**

- ① **N2639830** Sterilization cap "MAJ-1538"
- ② **WA23080A** Leakage tester,
for flexible Olympus endoscopes
 - For manual use
 - With indicator
 - For all Olympus surgical fiberscopes and videoscopes
- ③ **K7505899** Instrument tray "MAJ-172",
for LTF series,
610 x 110 x 450 mm

Video System**VISERA
ELITE II**

- N5426860** "OTV-S200"
Video System Center "VISERA ELITE II"
All-in-One 2D Processor and Light Source
- N5426960** "OTV-S300"
Video System Center "VISERA ELITE II"
All-in-One 2D/3D Processor and Light Source

🔗 For OTV-S200, see page 493.

🔗 For OTV-S300, see page 491.

LTF-S190-10

ENDOEYE FLEX

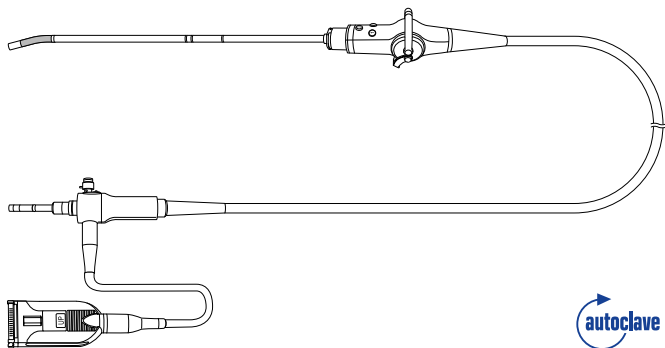
10 mm Deflectable Videoscope



Surgery

- Fog free function
The unique heating function prevents the endoscopic view from fogging. No wiping, no heating up the endoscope during a procedure.
- Multi CCD
The advanced chip on the tip multiple CCDs enable the ENDOEYE FLEX to unparalleled high-resolution, finely reproduced color HDTV images. displaying in 16:9.
- Focus-free
- NBI (Narrow Band Imaging)



10 mm ENDOEYE FLEX Deflectable Videoscope

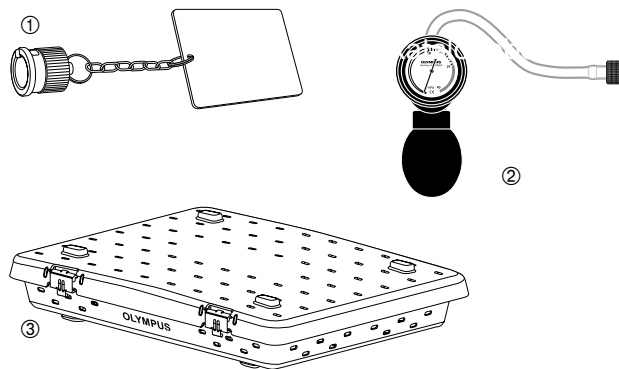
N3828150 OLYMPUS LTF-S190-10
ENDOEYE FLEX deflectable videoscope

Delivery includes:

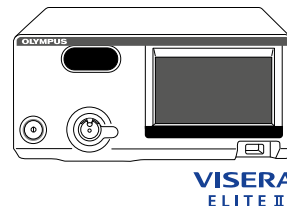
Videoscope, sterilization cap MAJ-1538, leakage tester

Technical Data

Optical system	
Field of view	100°
Direction of view	forward viewing
Depth of field	18 – 100 mm
Insertion portion	
Distal end outer diameter	10 mm
Rigid section outer diameter	10 mm
Working length	370 mm
Bending section	
Angulation range	100° up
	100° down
	100° right
	100° left
Total length	3600 mm
Compatibility	
NBI observation mode	available
HF treatment	available
Laser treatment	not available
Safety	
Directive 93/42/EEC	class IIa
Protection against electric shock	type BF applied part
Ambient conditions	
Operation	temperature 10 – 40 °C
	relative humidity 30 – 85%
	atmospheric pressure 700 – 1060 hPa
Storage	temperature 5 – 40 °C
	relative humidity 10 – 95%
	atmospheric pressure 700 – 1060 hPa
Transport	temperature -47 – 70 °C
	relative humidity 10 – 95%
	atmospheric pressure 700 – 1060 hPa

Reprocessing

- ① **N2639830** Sterilization cap “MAJ-1538”
- ② **WA23080A** Leakage tester,
for flexible Olympus endoscopes
 - For manual use
 - With indicator
 - For all Olympus surgical fiberscopes and videoscopes
- ③ **K7505899** Instrument tray “MAJ-172”,
for LTF series,
610 x 110 x 450 mm

Video System

- N5426850** “OTV-S200”
Video System Center “VISERA ELITE II”
All-in-One 2D Processor and Light Source
- N5426950** “OTV-S300”
Video System Center “VISERA ELITE II”
All-in-One 2D/3D Processor and Light Source

🔗 For OTV-S200, see page 493.

🔗 For OTV-S300, see page 491.

LTF-190-10-3D

3D ENDOEYE FLEX Deflectable Videoscope

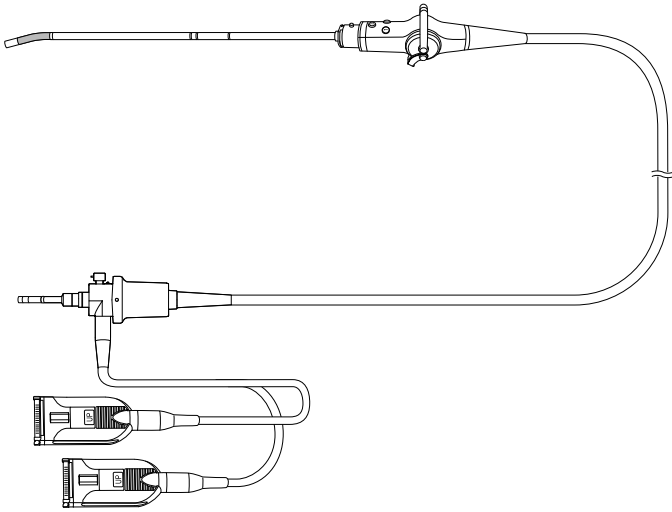


The 3D ENDOEYE FLEX utilizes high-density image sensors at the distal end of the videoscope, providing 3D images in high definition.

- Bends up to 100 degrees in four directions.
- Focus-free
- The 3D ENDOEYE FLEX provides improved speed, accuracy and precision regardless of skill level, while helping to shorten the learning curve for surgical tasks.
- The viewing mode is easily switched between 2D and 3D.
- NBI (Narrow Band Imaging) in 2D and 3D



HD ENDOEYE FLEX 3D



N4501750 Videoscope "LTF-190-10-3D"

Delivery includes:

Videoscope, sterilization cap MAJ-1538, leakage tester

Technical Data:

Optical system	
Field of view	80°
Direction of view	0°
Depth of field	18 – 100 mm
Insertion portion	
Distal end outer diameter	∅ 10 mm
Rigid section outer diameter	∅ 10 mm
Working length	370 mm
Bending section	
Angulation range	100° up, 100° down 100° right, 100° left
Total length	3600 mm
Compatibility	
NBI observation mode	available
HF treatment	compatible
Laser treatment	not compatible
Safety	
Directive 93/42/EEC	class IIa
Protection against electric shock	type BF applied part
Ambient conditions	
Operation	temperature 10 – 40 °C relative humidity 30 – 85 % atmospheric pressure 700 – 1060 hPa
Transport and storage	temperature -47 – 70 °C relative humidity 10 – 95 % atmospheric pressure 700 – 1060 hPa

Reprocessing

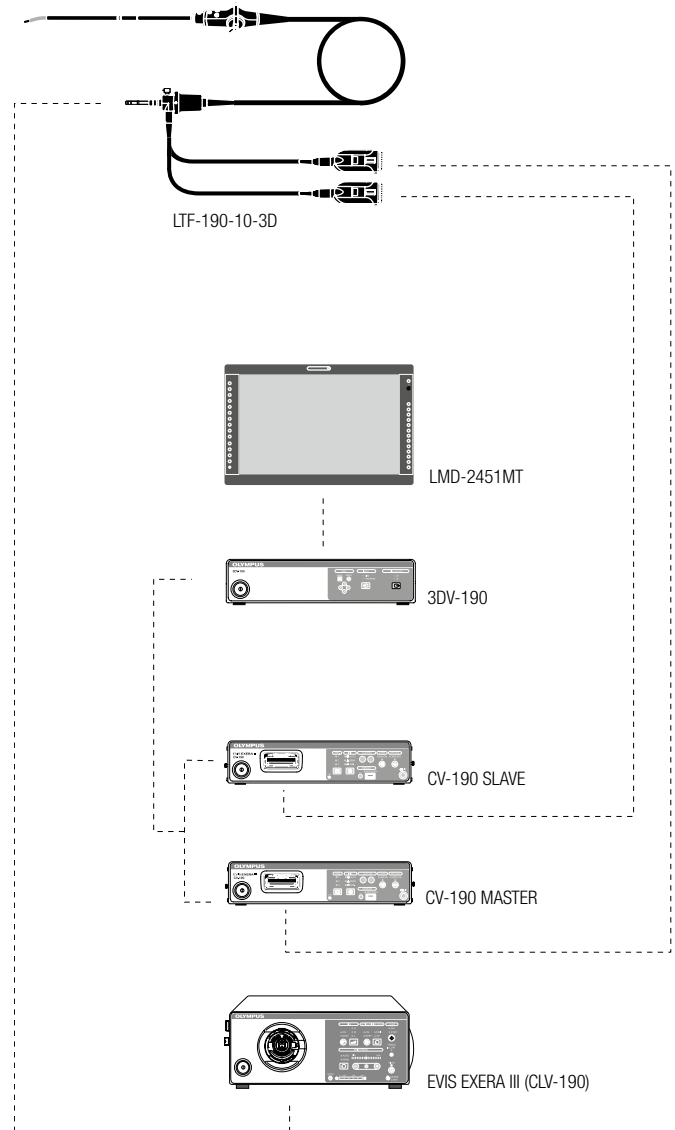


N2639830 Sterilization cap "MAJ-1538"

Rigid Sheath

N4501830 Rigid sheath "MAJ-2079",
for LTF-190-10-3D

System Chart



Surgery

HD ENDOEYE LTF-VH

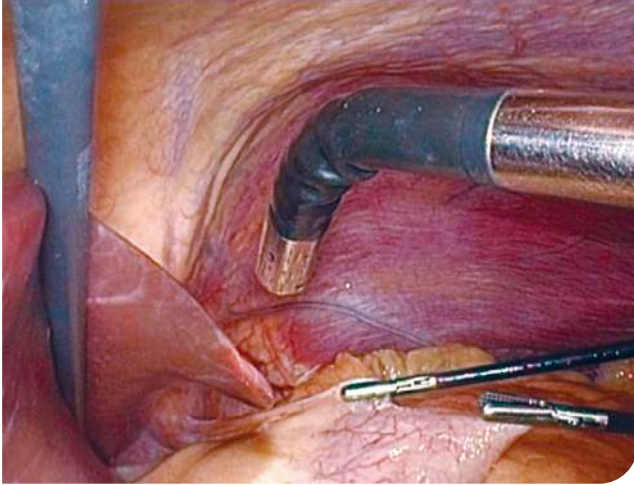
Laparo-Thoraco Videoscope





Boundless Viewing with 100° of Freedom

- HDTV 1080
1080 effective scanning lines of picture information
- CCD on the tip
Picture-perfect imaging performance
- 100° Flexibility in four directions
100° flexibility in four directions allows the target site to be viewed from many different angles and directions, and eliminates possible obstructions with forceps.



- Autoclavability
Improvements in autoclave technology have resulted in the development of an autoclavable chip-on-the-tip videscope with angulating capability.
- Narrow Band Imaging (NBI)
NBI is an optical image enhancement technology that enhances the visibility of vessels and other tissue on the mucosal surface.

HD ENDOEYE LTF-VH

Laparo-Thoraco Videoscope
(cont.)

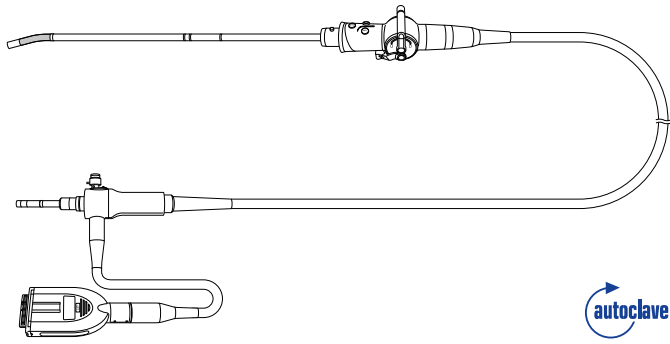


The HD ENDOEYE LTF-VH with distal HD-CCD delivers true high definition imaging quality with 1080 effective scanning lines. The unique deflectable tip design allows for unique 100° flexibility in 4 directions. HD ENDOEYE LTF-VH is autoclavable to meet today's reprocessing standards. HD ENDOEYE LTF-VH is the solution for the ambitious advanced colorectal and thoracic surgeon.

- 1080 HDTV:
1080 effective scanning lines for true high definition imaging
- Distally mounted High Definition CCD
- 100° flexibility in four directions



HD ENDOEYE Laparo-Thoraco Videoscope



N3628060 Videoscope "LTF-VH"

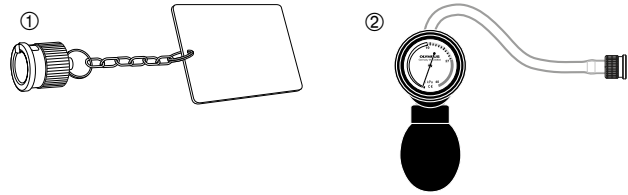
Delivery includes:

Videoscope, sterilization cap MAJ-1538, leakage tester

Technical Data

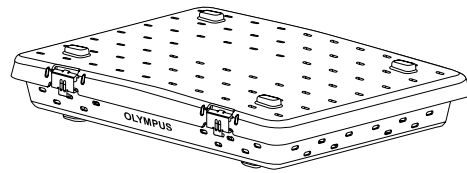
Optical system	
Field of view	90°
Direction of view	0° (forward viewing)
Depth of field	15 – 100 mm
Insertion portion	
Distal end outer diameter	10 mm
Rigid portion outer diameter	10 mm
Working length	370 mm
Bending section	
Angulation range	Up 100°
.....	Down 100°
.....	Right 100°
.....	Left 100°
Total length	3600 mm

Accessories



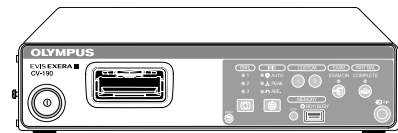
- ① **N2639830** Sterilization cap "MAJ-1538"
- ② **WA23080A** Leakage tester,
for flexible Olympus endoscopes
 - For manual use
 - With indicator
 - For all Olympus surgical fiberscopes and videoscopes

Instrument Tray



K7505899 Instrument tray "MAJ-172",
for LTF series,
610 x 110 x 450 mm

Video System



N3643260 EVIS EXERA III video system center "CV-190"

For EXERA III, see page 497.

Surgery

ENDO EYE FLEX 3D

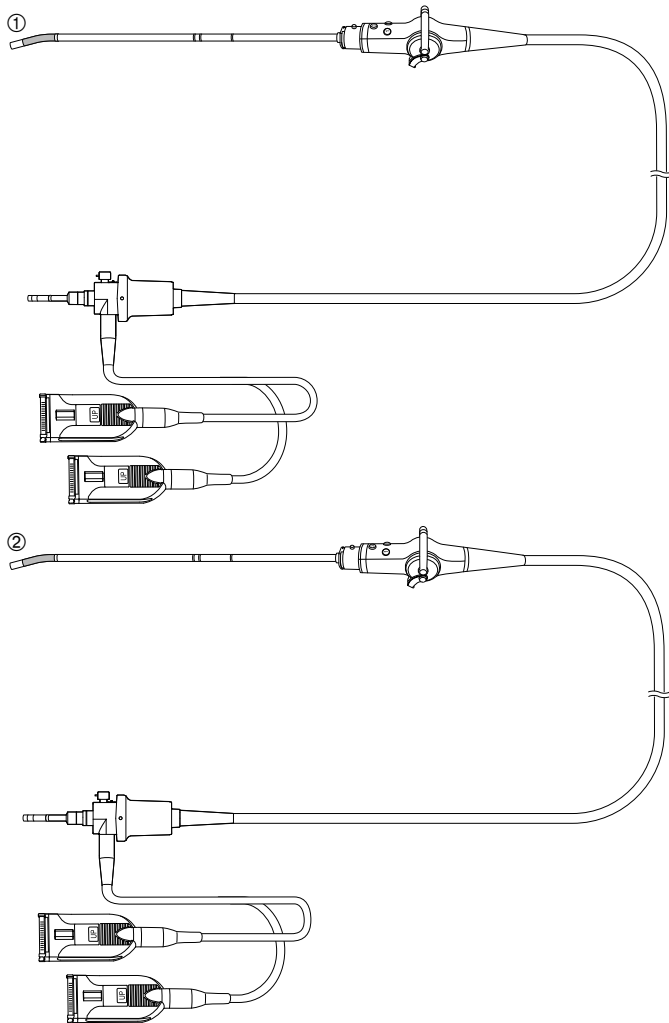
Deflectable Videoscope



Surgery

- Joystick Handle
Intuitive and smooth angulation.
Ergonomic design enables stable and customized handling with both hands or one hand.
- Shortened Tip Length
Better approachability inside narrow cavities.
- New Hold-Lever Design
Comfortable and smooth handling.
- Focus-Free
Greater depth of field.
The need for manual focusing is eliminated.

Videoscope

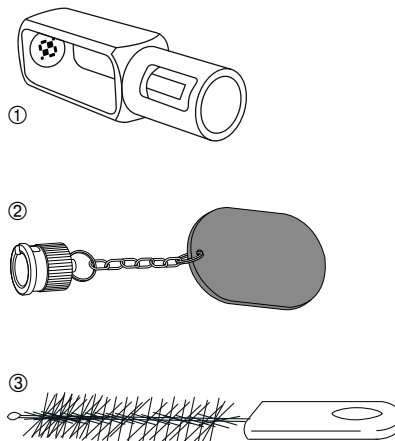


- ① **N5781350** LTF-S300-10-3D
- ② **N4501750** LTF-190-10-3D-E EE flex

Technical Data

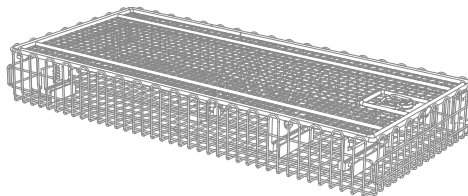
Optical system	
Lens system	Dual-lens 3D optical structure
Direction of view	Forward viewing
Depth of field	18 to 100 mm
Bending Section	
Angulation range	Up/down 80°, right/left 60°
Ambient Conditions	
Operating conditions	
Ambient temperature	10 to 40°C
Relative humidity	30 to 85%
Storage conditions	
Temperature	5 to 40°C
Relative humidity	10 to 95%
Transport conditions	
Temperature	-47 to 70°C
Relative humidity	10 to 95%
Classification of ME	
Protection against electric shock: classification of applied parts ...Type BF	
Equipment and ME Systems	
Protection against harmful ingress of water or particulate matterIPX7	
Sterilization	

Accessories



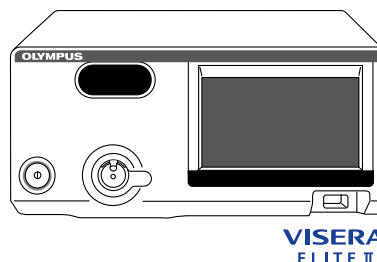
- ① **N5781530** 3D adjustment cap "MAJ-2266"
- ② **N2639830** Sterilization cap "MAJ-1538"
- ③ **N3641120** Opening cleaning brush "MAJ-1339"

Instrument Trays



- WA05938A** Wire basket

Video System



- N5426950** "OTV-S300"
Video System Center "VISERA ELITE II"
All-in-One 2D/3D Processor and Light Source

🔗 For VISERA ELITE II, see page 489.

ENDO EYE 3D

10 mm Video Telescope

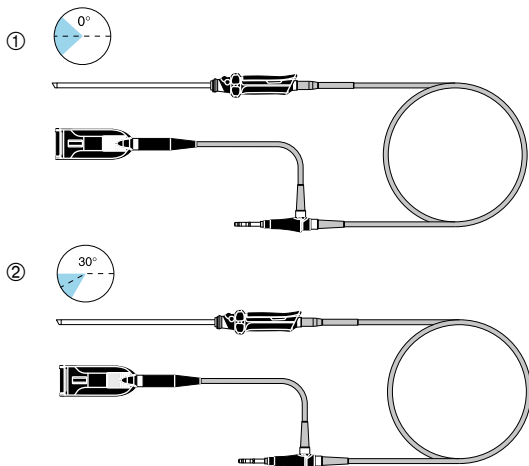


Surgery

- 3D-image rotation without loss of horizon
- Chip-on-the-Tip:
Bright, clear and natural 3D depth perception
- Focus-free
- Autoclave compatibility
- Full control during surgery:
Three programmable remote control buttons
- Plug and Play:
Simple to set up and easy to use
- Narrow Band Imaging (NBI)



10mm ENDOEYE 3D

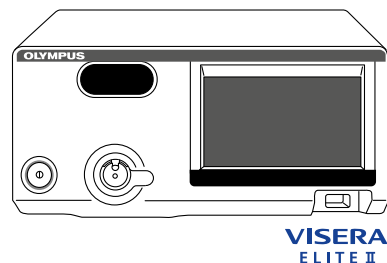



- ① **WA50080A** Video telescope "ENDOEYE 3D",
10 mm,
0°
▪ Autoclavable
- ② **WA50082A** Video telescope "ENDOEYE 3D",
10 mm,
30°
▪ Autoclavable

Technical Data

Optical system	
Field of view	67° (16:9)
Direction of view WA50080A	0°
Direction of view WA50082A	30°
Depth of field	25 mm – 120 mm
Insertion portion	
Outer diameter	10 mm
Max. Working length WA50080A	330 mm
Max. Working length WA50082A	335 mm
Max. Insertion portion width WA50080A	10.07 mm
Max. Insertion portion width WA50082A	10.20 mm
Safety	
Protection against electric shock	Type BF applied part
IP classification	IPX7
Ambient conditions	
Operation temperature	10–35 °C
relative humidity	3–85 %
Storage temperature	10–40 °C
relative humidity	30–85 %
Transport temperature	–47–70 °C
relative humidity	10–95 %

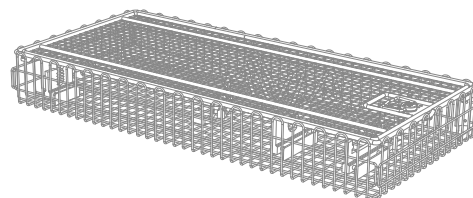
Video System




- N5426950** "OTV-S300"
Video System Center "VISERA ELITE II"
All-in-One 2D/3D Processor and Light Source

 For VISERA ELITE II, see page 489.

Instrument Tray



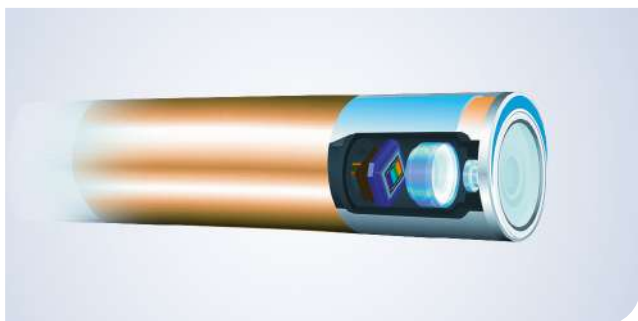
- WA05938A** Instrument tray,
wire basket,
for ENDOEYE video telescopes

 For wire instrument baskets, see page 657.

ENDOEYE HD II

ENDOEYE Rigid Videoscopes

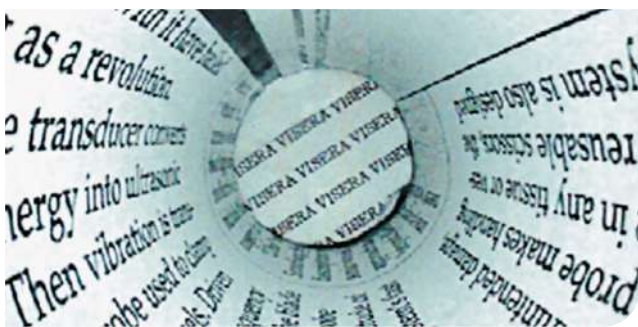




- **5 mm HDTV**
Worldwide first autoclavable HD video laparoscope with only 5.4 mm diameter for maximum patient comfort and safety.
- **Chip-on-the-Tip**
The advanced Chip-on-the-Tip enables the END OEYE to provide bright, clear images.



- **Efficiency**
Unrivalled END OEYE efficiency for superior handling and maximum surgeon comfort from all-in-one product concept.



- **Focus-Free**
Advanced optical design provides greater depth of field eliminating manual focusing. Consistently excellent image with a sharp center and a sharp periphery in 5:4 or 16:9 wide-screen format.



- **Autoclavability**
State of the art reprocessing compatibility: completely autoclavable



- **NBI (Narrow Band Imaging)**
NBI is an optical image enhancement technology that improves the visualization of vessels and other tissues on the mucosal surface. Only Olympus products feature NBI, which is 20 % brighter compared to previous models.

ENDOEYE HD II

5 mm Rigid Videoscopes

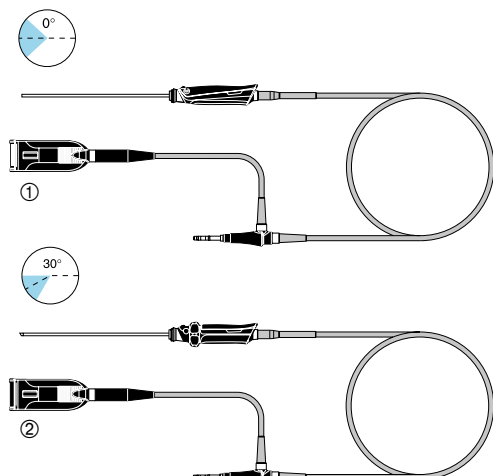


Surgery

- Worldwide first autoclavable HD video laparoscope with only 5.4 mm diameter for maximum patient comfort and safety
- Chip-on-the-Tip
- Unrivalled ENDOEYE efficiency for superior handling and maximum surgeon comfort from all-in-one product concept.
- Focus-free
- Completely autoclavable
- NBI (Narrow Band Imaging)



5 mm ENDOEYE HD II

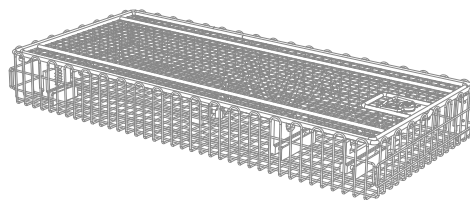



- ① **WA50050A** Video telescope “ENDOEYE HD II”,
5.4 mm, 0°,
▪ Autoclavable
- ② **WA50052A** Video telescope “ENDOEYE HD II”,
5.4 mm, 30°,
▪ Autoclavable


Technical Data

Optical system	
Field of view	72° (16:9), 80° (5:4)
Direction of view WA50050A	0°
Direction of view WA50052A	30°
Depth of field	21 mm – 200 mm
Insertion portion	
Outer diameter	5.4 mm
Working length WA50050A	300 mm
Working length WA50052A	302 mm
Safety	
Protection against electric shock	type CF applied part
IP classification	IPX7
Ambient conditions	
Operation temperature	10–35 °C
relative humidity	10–85 %
atmospheric pressure	700–1060 hPa
Storage temperature	10–40 °C
relative humidity	30–75 %
Transport temperature	–47–70 °C
relative humidity	10–95 %

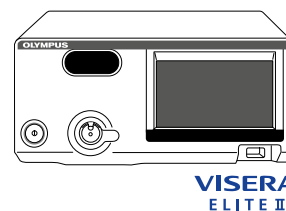
Instrument Tray



WA05938A Instrument tray,
wire basket,
for ENDOEYE video telescopes

 For wire instrument baskets, see page 657.

Video System



N5426850 “OTV-S200”
Video System Center “VISERA ELITE II”
All-in-One 2D Processor and Light Source

N5426950 “OTV-S300”
Video System Center “VISERA ELITE II”
All-in-One 2D/3D Processor and Light Source

 For VISERA ELITE II, see page 489.

ENDOEYE HD II

10 mm Rigid Videoscopes

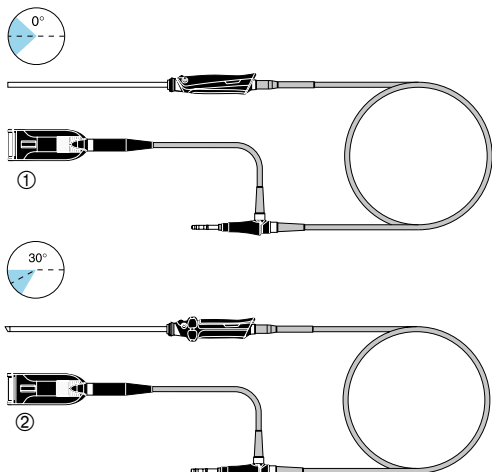


Surgery

- Chip-on-the-Tip
- Unrivalled ENDOEYE efficiency for superior handling and maximum surgeon comfort from all-in-one product concept.
- Focus-Free
- Fog-Free
- Completely autoclavable
- NBI (Narrow Band Imaging)



10 mm ENDOEYE HD II



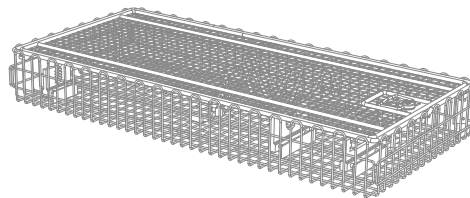
- ① **WA50040A** Video telescope “ENDOEYE HD II”,
10 mm, 0°,
▪ Autoclavable

- ② **WA50042A** Video telescope “ENDOEYE HD II”,
10 mm, 30°,
▪ Autoclavable

Technical Data

Optical system	
Field of view	90° (16:9)
Direction of view WA50040A.....	0°
Direction of view WA50042A.....	30°
Depth of field.....	21 mm – 200 mm
Insertion portion	
Outer diameter	10 mm
Working length WA50040A.....	325 mm
Working length WA50042A.....	330 mm
Safety	
Protection against electric shock.....	type BF applied part
IP classification	IPX7
Ambient conditions	
Operation temperature.....	10–35 °C
relative humidity	10–85 %
atmospheric pressure	700–1060 hPa
Storage temperature.....	10–40 °C
relative humidity	30–75 %
Transport temperature.....	–47–70 °C
relative humidity	10–95 %

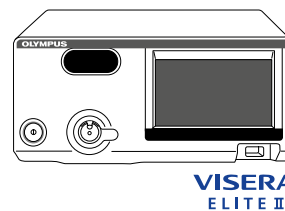
Instrument Tray



WA05938A Instrument tray,
wire basket,
for ENDOEYE video telescopes

☞ For wire instrument baskets, see page 657.

Video System



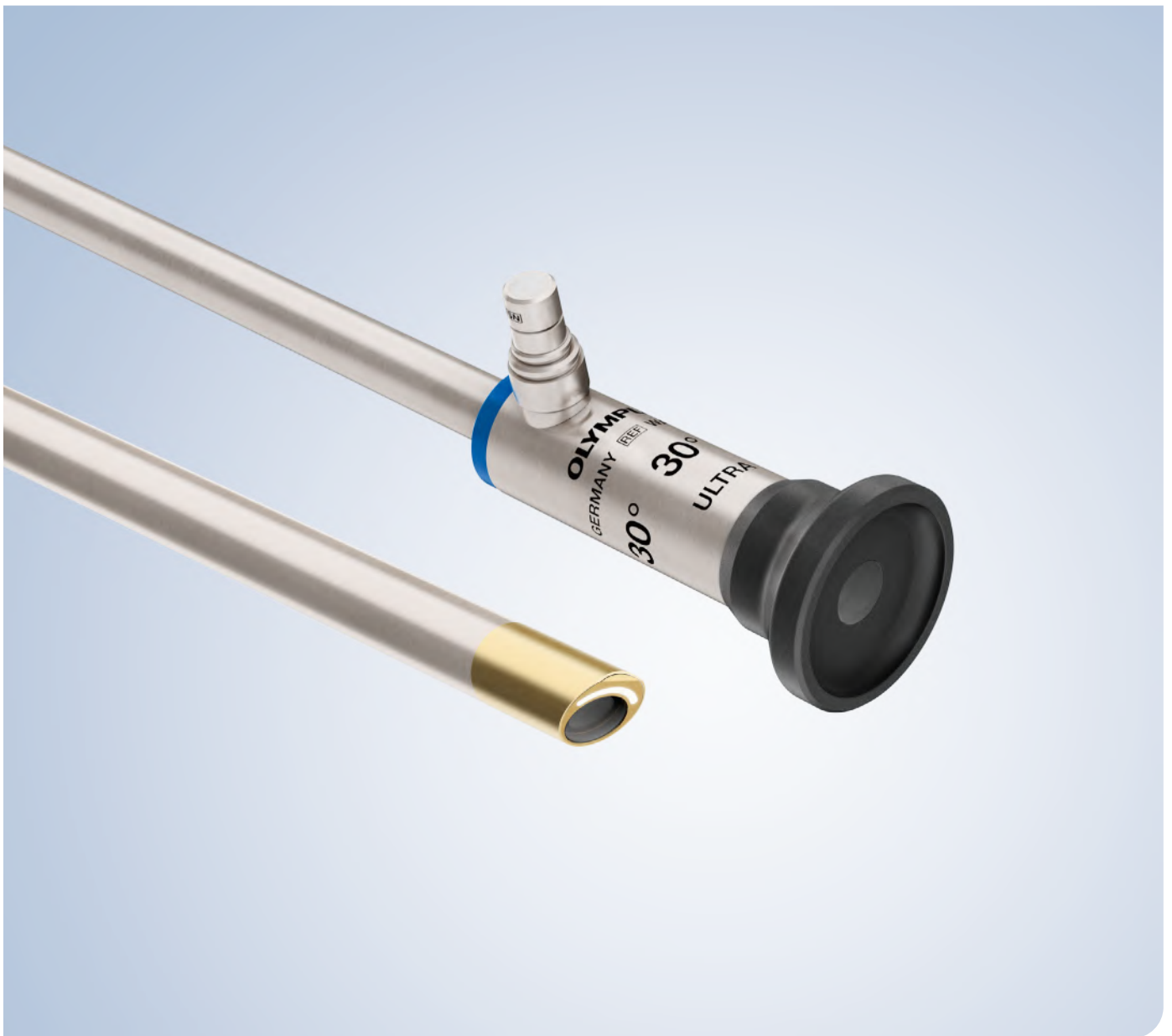
N5426850 “OTV-S200”
Video System Center “VISERA ELITE II”
All-in-One 2D Processor and Light Source

N5426950 “OTV-S300”
Video System Center “VISERA ELITE II”
All-in-One 2D/3D Processor and Light Source

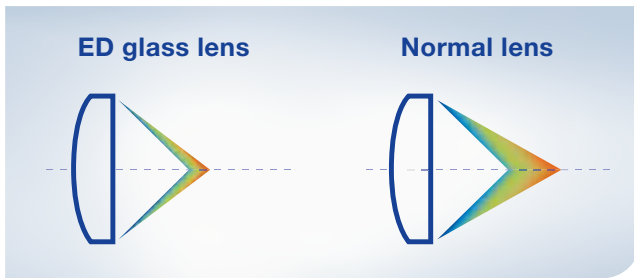
☞ For VISERA ELITE II, see page 489.

ULTRA Telescopes

VISERA 4K UHD

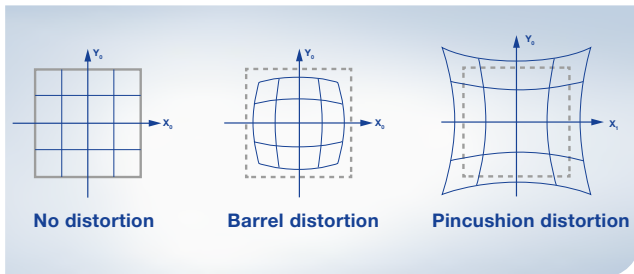


Surgery



ED Glass Lenses – Razor-Sharp Images

- Optimized for high-resolution imaging
- High contrast at high spatial frequencies
- Comparable working length for 5.4 mm and 10 mm



Distortion-Free Images (5.4 mm telescope)

- Clear images even at the edges
- No barrel or pincushion distortion (using 5.4 mm telescope)
- Wide field of view
Visual field increased by 20% compared to conventional HD endoscopes¹
- Full autoclavability
Reduced waste due to full reusability of the telescopes
- Compatibility
Mechanical compatibility to current generations of camera heads and light guide cables by Olympus and other manufacturers that comply with DIN58105
- Good illumination even at the edges
The ULTRA telescopes have a homogeneous light distribution in the peripheral region (both 5.4 mm and 10 mm)



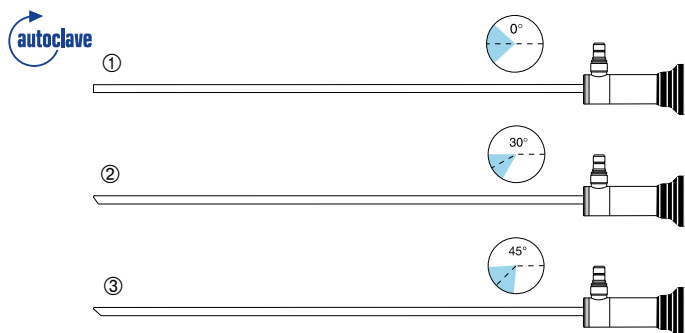
¹ 5.4 mm ULTRA telescope compared to endoscope with 70° field of view and 10 mm ULTRA telescope compared to endoscope with 75° field of view

ULTRA Telescopes

VISERA 4K UHD

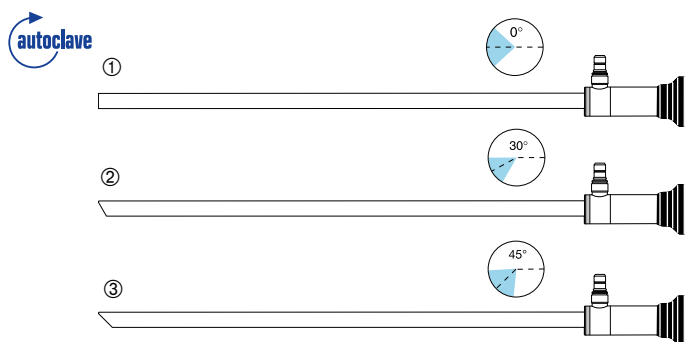
(cont.)

5.4 mm ULTRA Telescopes



- ① **WA4KL500** Telescope "ULTRA",
5.4 mm, 0°
- ② **WA4KL530** Telescope "ULTRA",
5.4 mm, 30°
- ③ **WA4KL545** Telescope "ULTRA",
5.4 mm, 45°

10 mm ULTRA Telescopes

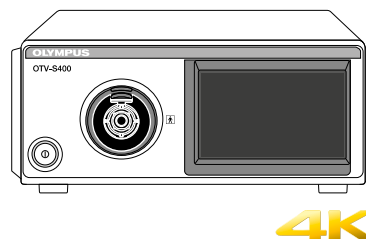


- ① **WA4KL100** Telescope "ULTRA",
10 mm, 0°
- ② **WA4KL130** Telescope "ULTRA",
10 mm, 30°
- ③ **WA4KL145** Telescope "ULTRA",
10 mm, 45°

Technical Data

Direction of view	
WA4KL100, WA4KL500	0°
WA4KL130, WA4KL530	30°
WA4KL145, WA4KL545	45°
Field of view	
WA4KL100, WA4KL130, WA4KL145	88°
WA4KL500, WA4KL530, WA4KL545	84°
Working length	
WA4KL100	316.4 mm
WA4KL130	318.6 mm
WA4KL145	319.2 mm
WA4KL500	315.8 mm
WA4KL530	317.0 mm
WA4KL545	317.0 mm
Maximum insertion portion width	
WA4KL100, WA4KL130, WA4KL145	10.2 mm
WA4KL500, WA4KL530, WA4KL545	5.45 mm
Ambient conditions	
Operation	temperature 10 – 35 °C
relative humidity	30 – 85%
atmospheric pressure	700 – 1060 hPa
Storage	temperature 10 – 40 °C
relative humidity	30 – 85%
Transport	temperature -40 – 70 °C
relative humidity	10 – 95%

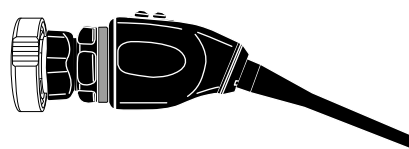
Video System



N5402150 VISERA 4K UHD camera control unit "OTV-S400"

For Video System OTV-S400, see page 483.

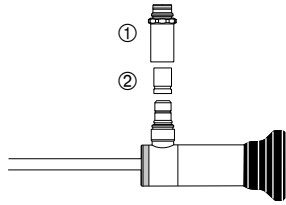
Camera Head



N5401750 FULL 4K, CMOS, one-touch focus, bright NBI, non-autoclavable, integrated eye piece adapter

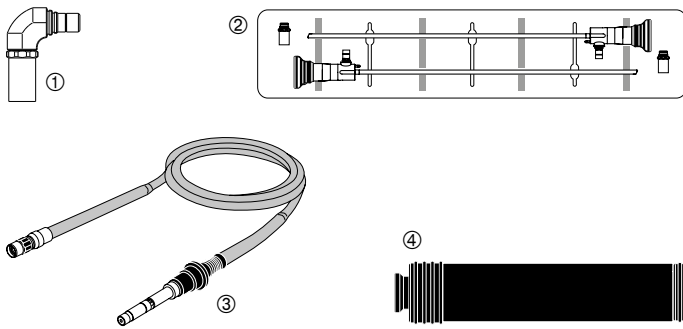
N5404750 FULL 4K, CMOS, one-touch focus, bright NBI, autoclavable, integrated eye piece adapter

Spare Parts



- A0460** Spare parts, Light-guide adapter, to Olympus light-guide cable
- 00332** Spare parts, Light-guide adapter, to Wolf light-guide cable

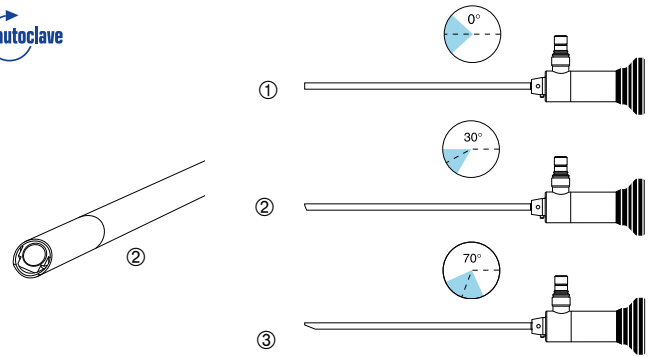
Accessories



- 1 A0464** Light-guide adapter, 90°, OES telescope to OES light-guide cable
- 2 WA05990A** Instrument tray, for telescopes
- 3 WA03310A** Light-guide cable, 4.25 mm, 3 m, CF type
- 4 WA51006A** Telescope lens tester

For plastic instrument trays, see page 651.

ULTRA Arthroscopes



- 1 WA4KA400** ULTRA Telescope, 4 mm, 0°
- 2 WA4KA430** ULTRA Telescope, 4 mm, 30°
- 3 WA4KA470** ULTRA Telescope, 4 mm, 70°

Technical Data

Working length	
WA4KA400	158.3 mm
WA4KA430	158.8 mm
WA4KA470	161.6 mm
Maximum insertion portion width	
WA4KA400, WA4KA430, WA4KA470	4.05 mm
Direction of view	
WA4KA400	0°
WA4KA430	30°
WA4KA470	70°
Field of view	
WA4KA400, WA4KA430, WA4KA470	115°
Operation conditions	
Ambient temperature	10 – 35 °C
Humidity	30 – 85 % rel.
Atmospheric pressure	700 – 1060 hPa
Storage conditions	
Temperature	10 – 40 °C
Humidity	30 – 85 % rel.
Transport conditions	
Temperature	-40 – 70 °C
Humidity	10 – 95 % rel.

Equipment

- For 4K camera head, see page 321.
- For Video System OTV-S400, see page 483.
- For CLV-S400 Light Source, see page 485.
- For Adapters and Stopcocks, see page 56.

Surgery

IR Telescopes

Infrared Telescopes



Surgery

- Razor-sharp images
- Optimized for high-resolution imaging
- Decreased chromatic aberration
- Wide field of view
- Incorporates design elements for IR imaging (e.g. lens coating) with dedicated IR imaging system
- Autoclavable:
Reduced costs compared with other sterilization methods

Beyond Vision - Striving for Improved Quality of Patient Care

With VISERA ELITE II Olympus has developed a versatile and efficient imaging platform. Due to the compatibility with a wide range of endoscopes and multiple different observation methods like enhanced 3D visualization or special light observation, VISERA ELITE II is a clinical optimized solution for each medical speciality.

A New World Of Observation Possibilities

The new VISERA ELITE system offers different observation possibilities such as Narrow Band Imaging (NBI) or Infrared (IR) Imaging. These technologies help to improve the patient outcome during diagnostics or surgery.

Two Modes for IR Observation

Choose between observation under partial white light and IR light at the same time, and observation under only IR light, using just one switch.

ED Glass Lens

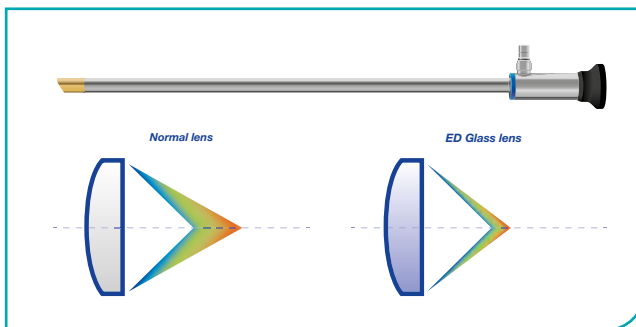
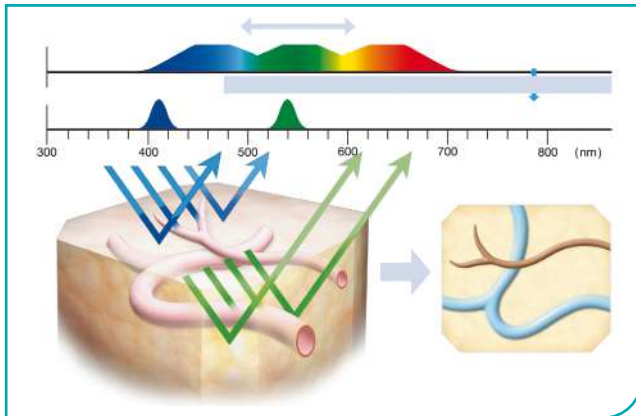
- Razor-sharp images
- Decreased chromatic aberration
- Wide field of view

Infrared Imaging

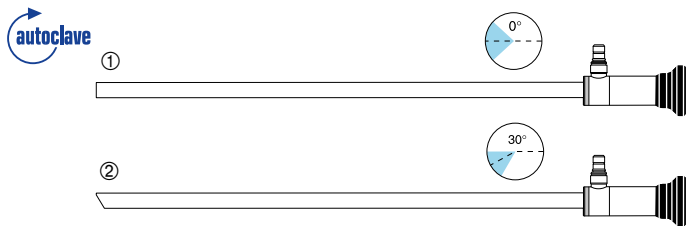
- Incorporates design elements for IR imaging (e.g. lens coating)

Autoclave Compatibility

- Reduced costs compared with other sterilization methods



10 mm IR Laparoscopes



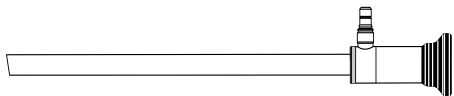
- ① **WAIR100A** Telescope "IR", 10 mm, 0°
- ② **WAIR130A** Telescope "IR", 10 mm, 30°

Please check availability and legal situation of medical dye, which is necessary to perform fluorescence imaging.

Technical Data

Direction of view	
WAIR100A	0°
WAIR130A	30°
Field of view	
WAIR100A, WAIR130A	88°
Working length	
WAIR100A	316.4 mm
WAIR130A	318.6 mm
Maximum insertion portion width	
WAIR100A, WAIR130A	10.2 mm

10 mm IR Telescopes Short

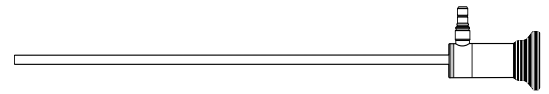


- WA4KT130** Telescope "ULTRA", IR, 10 mm, 30°, short

Technical Data

Direction of view	
WA4KT130	30°
Field of view	
WA4KT130	88°
Working length	
WA4KT130	219.0 mm
Maximum insertion portion width	
WA4KT130	10.2 mm

5 mm IR Telescopes

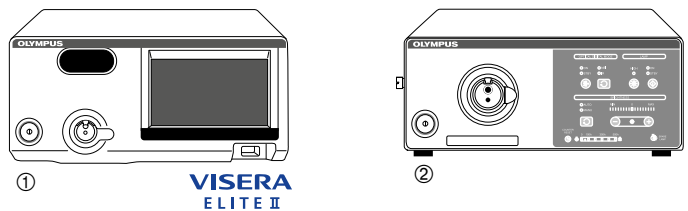


- WAIR500A** Telescope "ULTRA", IR, 5.4 mm, 0°
- WAIR530A** Telescope "ULTRA", IR, 5.4 mm, 30°

Technical Data

Direction of view	
WAIR500A	0°
WAIR530A	30°
Field of view	
WAIR500A, WAIR530A	84°
Working length	
WAIR500A	315.8 mm
WAIR530A	317.0 mm
Maximum insertion portion width	
WAIR500A, WAIR530A	5.45 mm

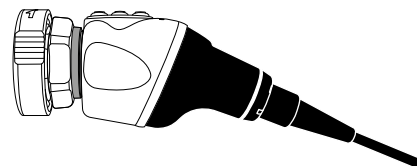
Video System



- ① **N5426850** "OTV-S200"
Video System Center "VISERA ELITE II"
All-in-One 2D Processor and Light Source
- N5426950** "OTV-S300"
Video System Center "VISERA ELITE II"
All-in-One 2D/3D Processor and Light Source
- ② **N5427050** Light Source "CLV-S200-IR"

For VISERA ELITE II, see page 489.

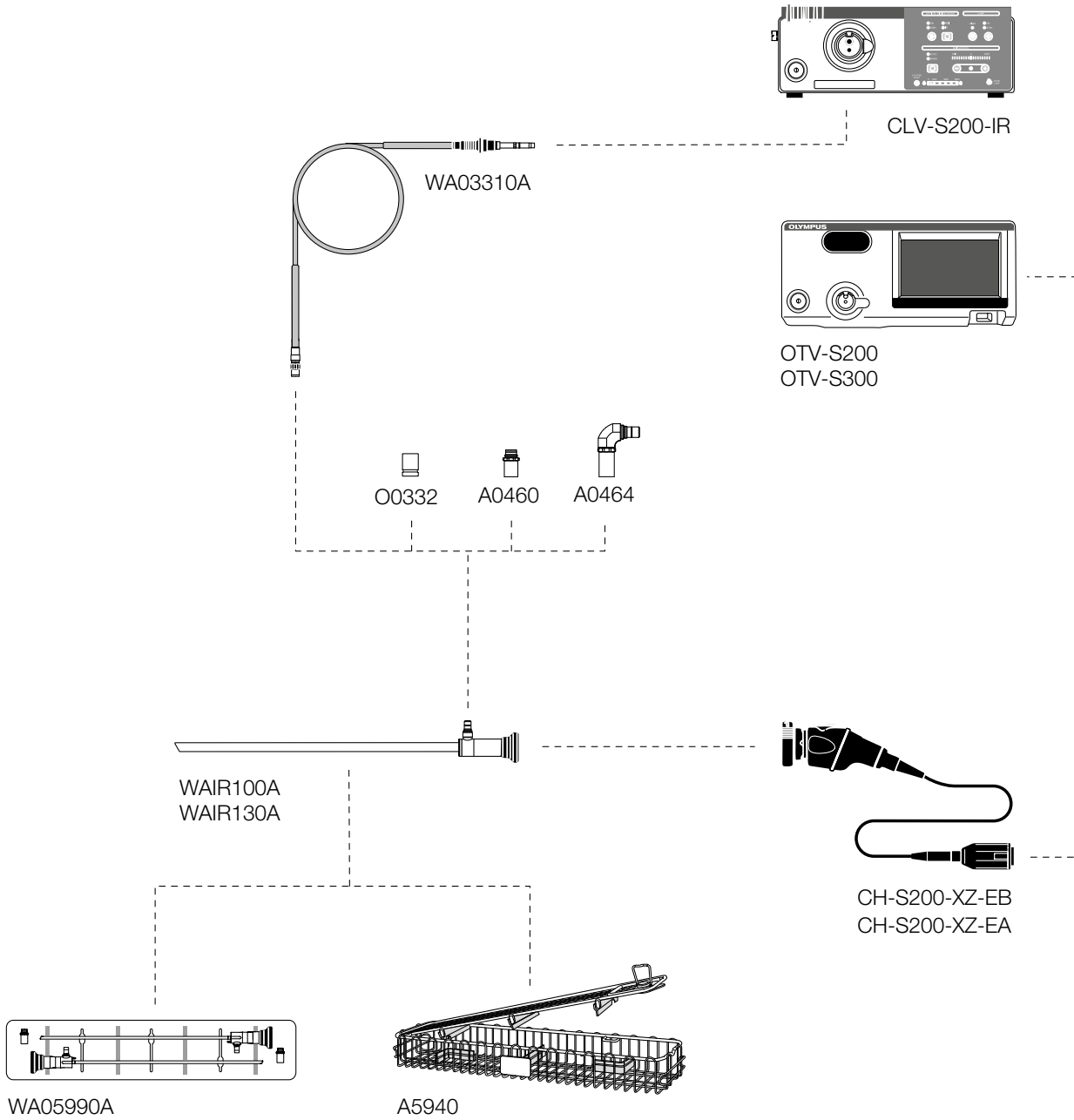
Camera Head



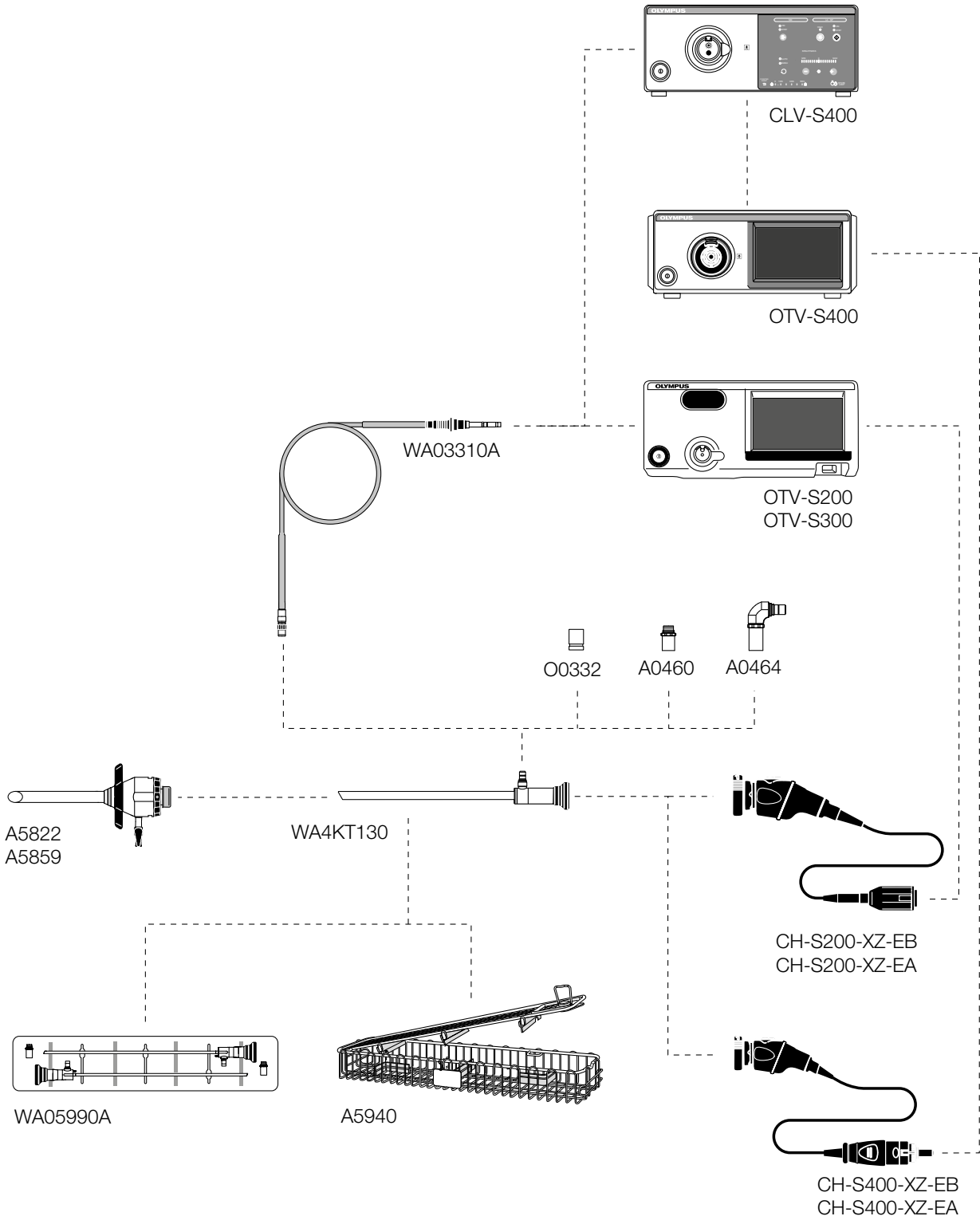
- N5766550** CH-S200-XZ-EA Camera head autoclavable
- N5409160** CH-S200-XZ-EB 3CMOS Camera Head

System Chart 10 mm IR Laparoscopes

Surgery



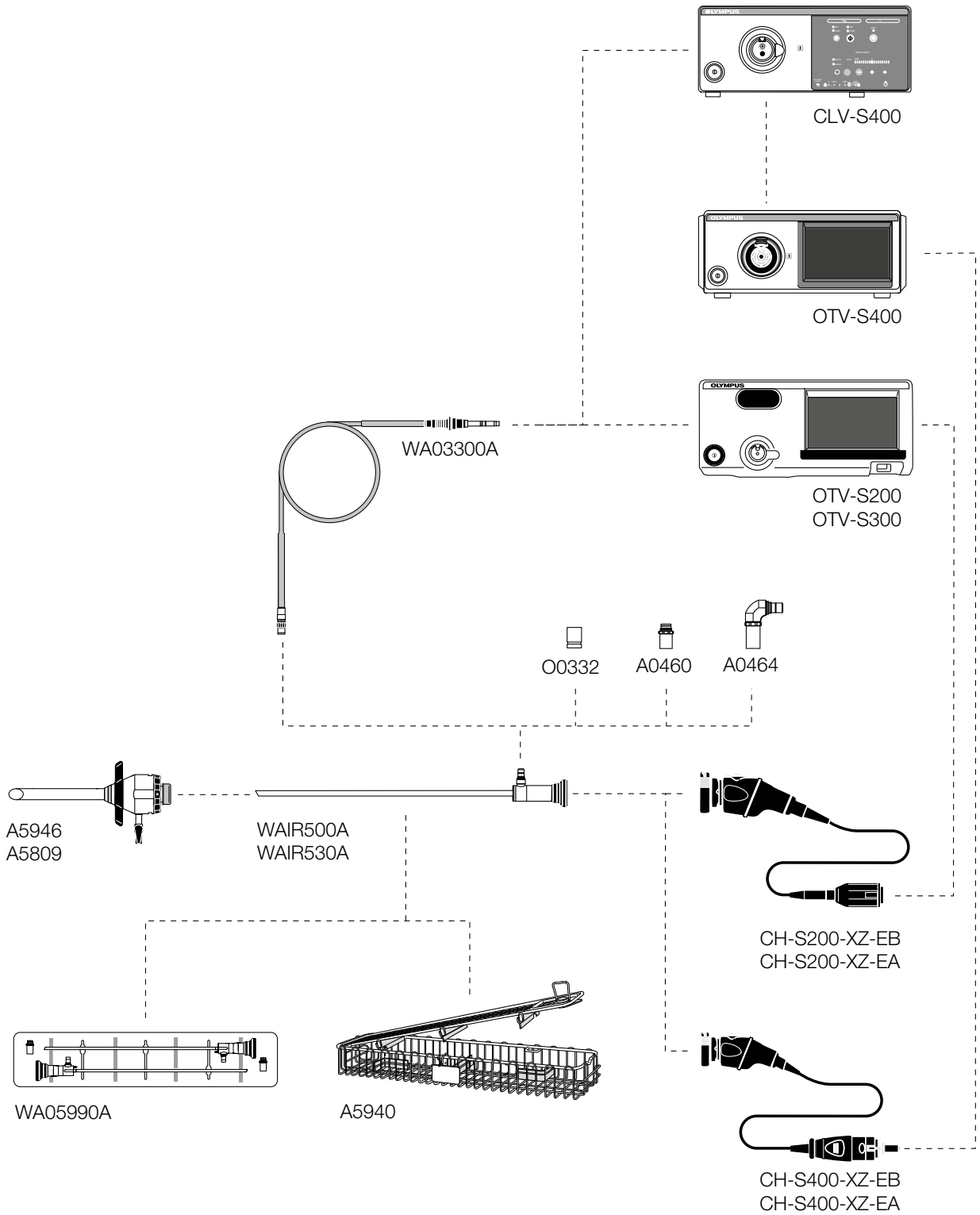
System Chart 10 mm IR Telescopes Short



Surgery

System Chart 5 mm IR Telescopes

Surgery



High Definition Telescopes



A chain is as strong as its weakest link.

The laparoscopic imaging chain ranges from the site of surgery to the image on the monitor. High definition imaging systems demand for an adequate type of laparoscope. The use of high-end camera systems with a conventional laparoscope would create a decisive bottleneck at the first link of the imaging chain. Olympus developed a unique HD optical system that brings contrast and color reproduction to a high level of purity.

Enlightening Surgery

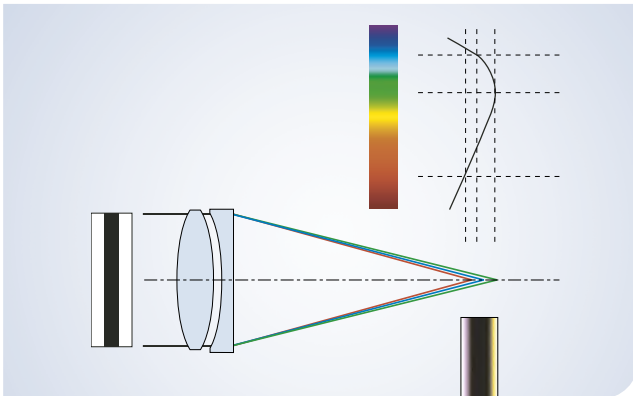
Sufficient and even distributed light is the source of all imaging. The Olympus HD laparoscope introduces a revolutionary tip design: Depending on the laparoscope's direction of view – 0°, 30° or 45° – the light-guide fibres are arranged for optimal illumination in up to three separate bundles.

Optical Perfection

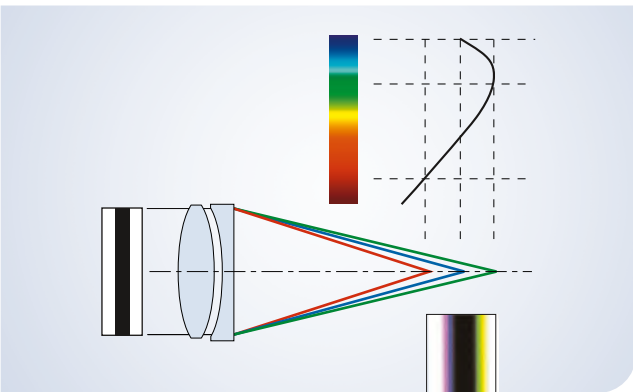
When you hold a prism to the sun, the white light is separated and rainbow colours are produced. The same effect occurs in a conventional laparoscope and makes the boundaries of a subject appear blurred – limiting resolution and contrast. The source of the so-called “color fringing” is chromatic aberration. For high-definition imaging the Olympus HD optical system reduces aberration.

Nearly Distortion Free

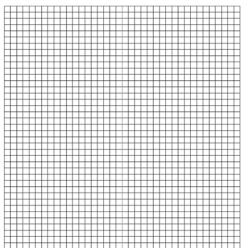
The exclusive Olympus aspherical lenses ensure nearly distortion-free imaging right into the corners.



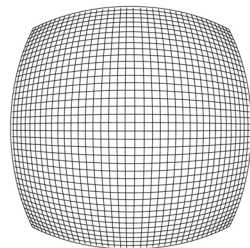
Olympus HD telescope



Conventional telescope



Olympus HD telescope



Conventional telescope

High Definition Telescopes

(cont.)



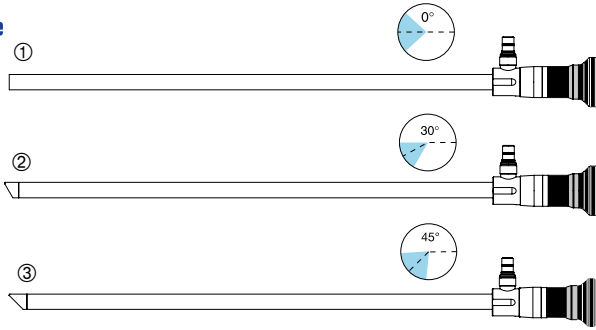
Surgery

- Optical perfection:
Low chromatic aberration for high image quality
- Nearly distortion-free:
Aspherical lenses ensure nearly distortion-free imaging right into the corners.
- Enlightening surgery:
Bright and even light distribution



High Definition Telescopes

autoclave



- ① **WA53000A** Telescope, 10 mm, 0°, HD, quick lock, autoclavable
- ② **WA53005A** Telescope, 10 mm, 30°, HD, quick lock, autoclavable
- ③ **WA53010A** Telescope, 10 mm, 45°, HD, quick lock, autoclavable

Delivery includes:

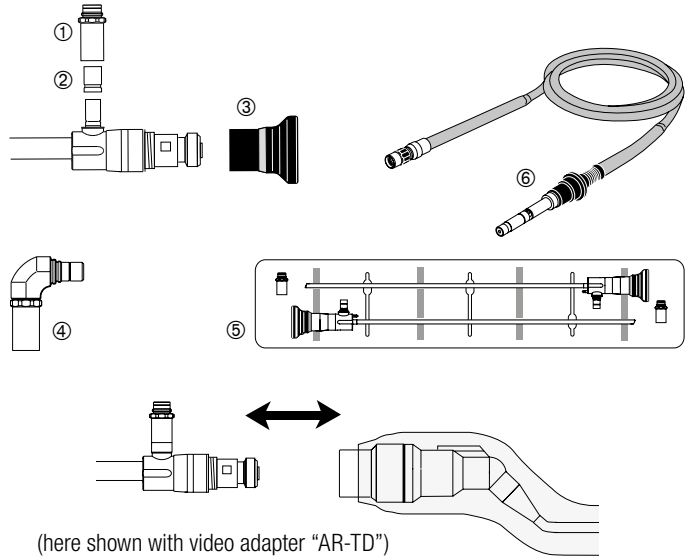
Instrument tray WA05990A.

For plastic instrument trays, see page 651.

Technical Data

Working length	
WA53000A.....	316.6 mm
WA53005A.....	316.0 mm
WA53010A.....	317.6 mm
Outer diameter.....	10 mm
Direction of view	
WA53000A.....	0°
WA53005A.....	30°
WA53010A.....	45°

Spare Parts and Accessories



(here shown with video adapter "AR-TD")

- ① **A0460** Spare parts, Light-guide adapter, to Olympus light-guide cable
- ② **00332** Spare parts, Light-guide adapter, to Wolf light-guide cable
- ③ **A5333** Spare parts, Eyepiece cup, quick lock
- ④ **A0464** Light-guide adapter, 90°, OES telescope to OES light-guide cable
- ⑤ **WA05990A** Instrument tray, for telescopes
- ⑥ **WA03310A** Light-guide cable, 4.25 mm, 3 m, CF type

For plastic instrument trays, see page 651.

Surgery

Long 10 mm Telescopes

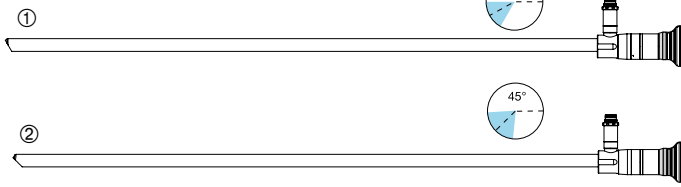


Surgery



- Extra long version with 460 mm working length
- Designed for bariatric surgery (e.g. sleeve gastrectomy, gastric bypass and gastric banding)
- Quick lock for attachment of video adapters

Long 10 mm Telescopes

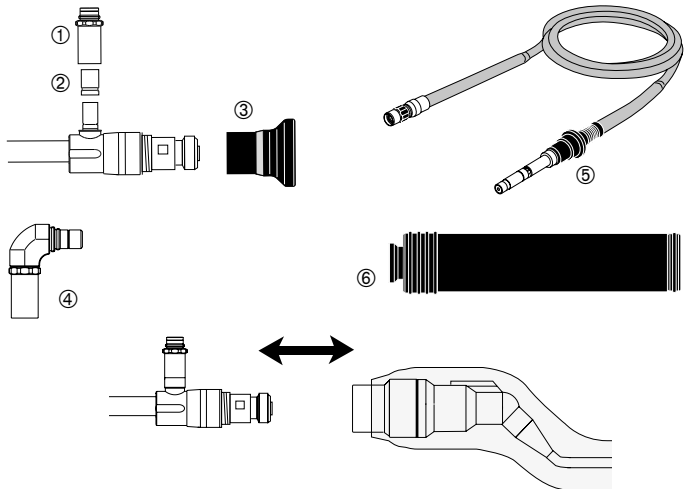



- ① **WA52005A** Telescope, 10 mm, 30°,
460 mm, quick lock, autoclavable
- ② **WA52006A** Telescope, 10 mm, 45°,
460 mm, quick lock, autoclavable

Technical Data

Working length	
WA52005A	465.6 mm
WA52006A	467.0 mm
Outer diameter	10 mm
Direction of view	
WA52005A	30°
WA52006A	45°

Spare Parts and Accessories



- ① **A0460** Spare parts, Light-guide adapter,
to Olympus light-guide cable
- ② **00332** Spare parts, Light-guide adapter,
to Wolf light-guide cable
- ③ **A5333** Spare parts, Eyepiece cup, quick lock
- ④ **A0464** Light-guide adapter,
90°, OES telescope to OES light-guide cable
- ⑤ **WA03310A** Light-guide cable,
4.25 mm, 3 m,
CF type
- ⑥ **WA51006A** Telescope lens tester

5 mm FullScreen Telescopes

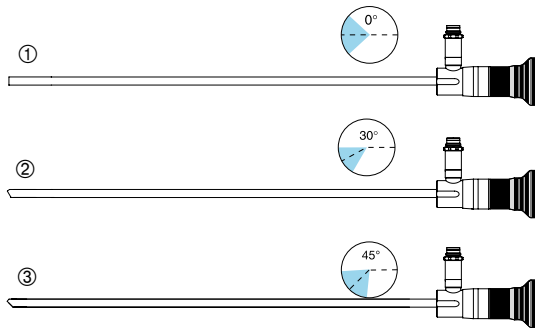


Surgery



- Less invasive without compromising on optical quality
- Bright full screen image like 10 mm telescopes
- Quick lock adapter for simple handling


5 mm FullScreen Telescopes


 autoclave


- ① **WA50372B** Telescope, 5.4 mm, 0°, quick lock, autoclavable
- ② **WA50373B** Telescope, 5.4 mm, 30°, quick lock, autoclavable
- ③ **WA50374B** Telescope, 5.4 mm, 45°, quick lock, autoclavable

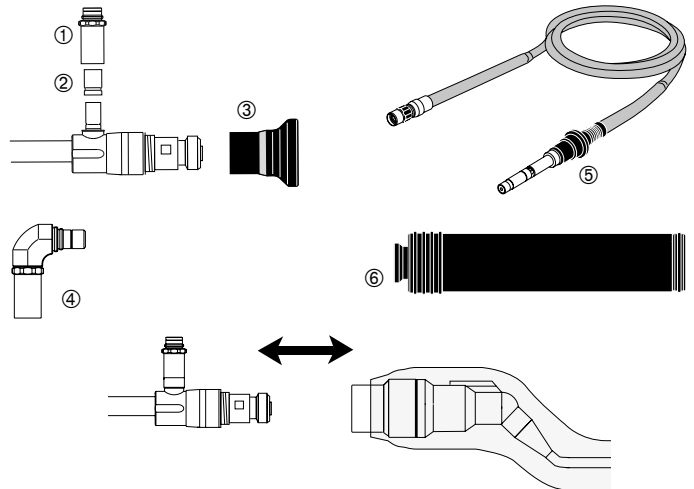
Delivery includes:

Instrument tray WA05990A.

 For plastic instrument trays, see page 651.
Technical Data

Working length	
WA50372B	298.6 mm
WA50373B	298.9 mm
WA50374B	298.6 mm
Outer diameter	5.4 mm
Direction of view	
WA50372B	0°
WA50373B	30°
WA50374B	45°

Spare Parts and Accessories

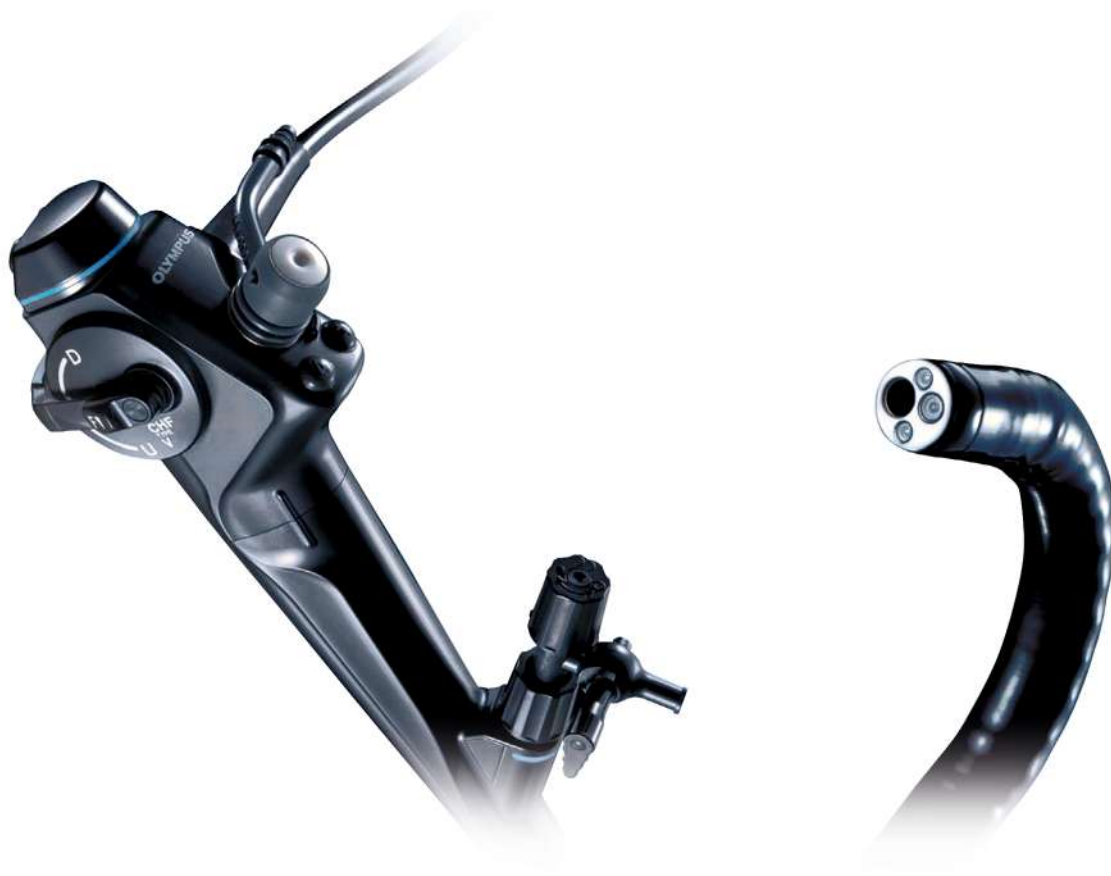


- ① **A0460** Spare parts, Light-guide adapter, to Olympus light-guide cable
- ② **00332** Spare parts, Light-guide adapter, to Wolf light-guide cable
- ③ **A5333** Spare parts, Eyepiece cup, quick lock
- ④ **A0464** Light-guide adapter, 90°, OES telescope to OES light-guide cable
- ④ **WA05990A** Instrument tray, for telescopes
- ⑤ **WA03310A** Light-guide cable, 4.25 mm, 3 m, CF type
- ⑥ **WA51006A** Telescope lens tester

 For plastic instrument trays, see page 651.

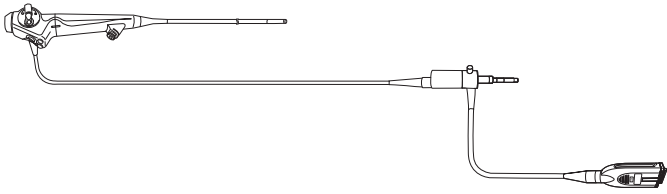
CHF-V

Choledocho-Videoscope



- A simultaneous-multicolor type CCD that features color consistent moiré-free imaging is introduced to the visualization of the bile duct.
- With its deep depth of field of view, this system eliminates the need for inconvenient intra-operative focusing.
- The CHF-V's image is even larger and less distorted than that of our conventional fiberscope, making the most of its high-resolution image quality and enhancing observation.

Choledocho-Videoscope



N3823055 Videoscope "CHF-V"

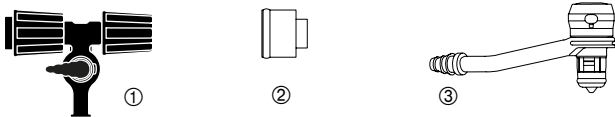
Delivery includes:

Videoscope, attachment MAJ-891, valve MAJ-207, valve MAJ-579, cleaning adapter MAJ-1077, cleaning brushes MAJ-1339 and BW-411B, ETO cap MB-156

Technical Data

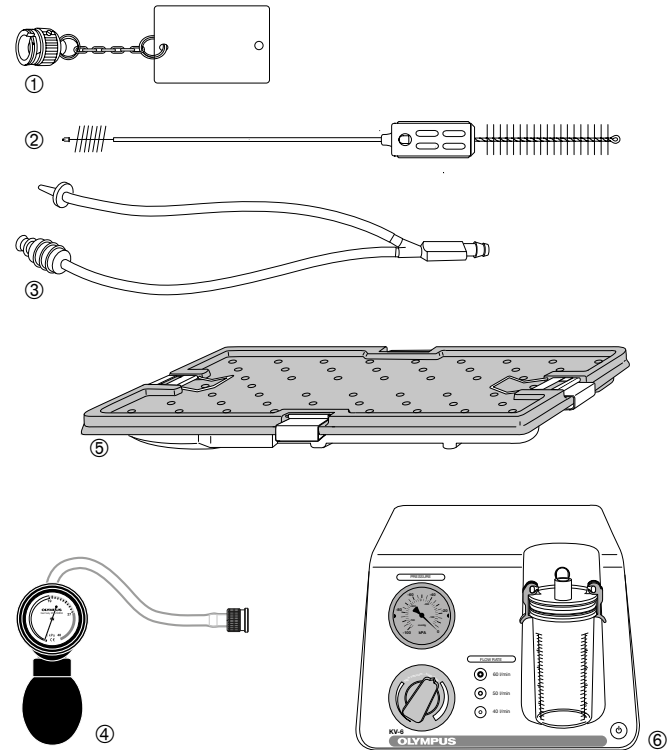
Field of view.....	120°
Direction of view.....	0°
Depth of field.....	3–50 mm
Insertion tube	
Distal end outer diameter.....	4.9 mm
Insertion tube outer diameter.....	5.2 mm
Working length.....	380 mm
Instrument channel	
Inner channel diameter.....	2.0 mm
Minimum visible distance.....	3 mm
Deflection	
Up.....	160°
Down.....	130°

Attachments



- ① **A02917A** Attachment "MAJ-891", isolated type
- ② **A02918A** Valve "MAJ-579", for MAJ-578/-668/-891, 10 pcs.
- ③ **A02905A** Valve "MAJ-207", for suction, Valve "MAJ-209", for single use

Accessories



- ① **A2328** ETO cap "MB-156"
- ② **N3640750** Single-use combination cleaning brush "BW-411B", for instrument channel
- ③ **N1029300** Suction cleaning adapter "MAJ-1077"
- ④ **WA23080A** Leakage tester, for manual use, with indicator, for all Olympus surgical fiberscopes and videoscopes
- ⑤ **WA05991A** Instrument tray, for flexible endoscopes of CHF, CYF, ENF, HYF, LF, and URF series, outer dimensions: 531 x 79 x 255 mm
- ⑥ **029290** Suction pump "KV-6", Europe
Suction pump "KV-6", UK

 For plastic instrument trays, see page 651.

Laparoscopic Hand Instruments

Standard and Monopolar Hand Instruments	341
HICURA Standard and Monopolar Hand Instruments	341
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HICURA 5 mm Biopsy Forceps	357
HICURA 5 mm Monopolar Scissors	359
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Electrosurgical High Frequency Devices Standard Mono- and Bipolar Energy	415

HICURA

Standard and Monopolar Hand Instruments



red dot award 2014
winner





- Different hands – different needs
HICURA offers two different handle sizes: size M for small to medium hands, and size L for medium to large hands. HICURA handles are designed to enhance usability and user comfort during laparoscopy. Depending on preferences and the field of application, handles with ratchet, deactivatable ratchet, or no ratchet are available.



- Adapted jaws mechanism
The two dedicated joint mechanisms (CAM and SL) give the surgeon adapted tissue control during grasping and dissection. Optimized tissue manipulation with the CAM grasping mechanism and the SL dissection mechanism: The CAM mechanism provides higher grasping forces and is therefore designed for firm grasping, whereas the SL mechanism is designed for optimized dissection because the jaws open at a wider angle.



- Assembly and disassembly have never been easier – just click it! HICURA's modular system allows intuitive and easy assembly in just three steps. Acoustic feedback confirms that the instrument has been correctly assembled. Furthermore, there's no need to assemble HICURA instruments in the OR because there's the option of steam sterilization of 250 mm and 330 mm HICURA versions in their assembled state.



- Rotation knob
The new design of the rotation knob allows easy and precise rotation of the jaws insert. Rotation with low resistance when the jaws are open, retarded rotation when tissue is firmly grasped.

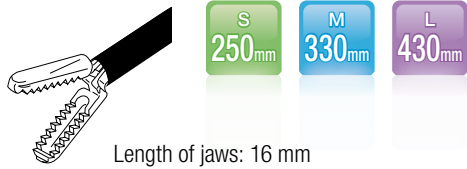
HICURA

5 mm Grasping Forceps



- Atraumatic forceps:
Multipurpose grasping forceps for all laparoscopic applications
- Claw type forceps:
For example, for recovery of gall bladder, myoma, etc.
- Flat forceps:
Multipurpose fenestrated grasping forceps for all laparoscopic applications
- Forceps with big lumen:
Atraumatic grasping forceps for delicate tissue (e.g. bowel, tubes)

Atraumatic Forceps



Components

WA69336M	Jaws insert "HICURA", 5 x 330, atraumatic, monopolar
WA69336S	Jaws insert "HICURA", 5 x 250, atraumatic, monopolar
WA69336L	Jaws insert "HICURA", 5 x 430, atraumatic, monopolar

Claw Type Forceps



Components

WA69344M	Jaws insert "HICURA", 5 x 330, claw type, monopolar
WA69344S	Jaws insert "HICURA", 5 x 250, claw type, monopolar
WA69344L	Jaws insert "HICURA", 5 x 430, claw type, monopolar

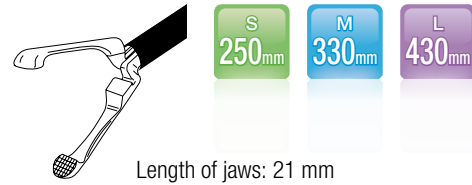
Flat Forceps



Components

WA69338M	Jaws insert "HICURA", 5 x 330, flat, monopolar
WA69338S	Jaws insert "HICURA", 5 x 250, flat, monopolar
WA69338L	Jaws insert "HICURA", 5 x 430, flat, monopolar

Forceps with Big Lumen



Components

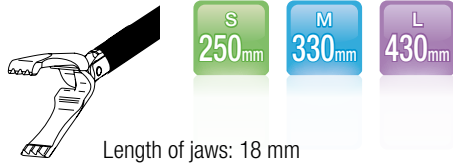
WA69340M	Jaws insert "HICURA", 5 x 330, with big lumen, monopolar
WA69340S	Jaws insert "HICURA", 5 x 250, with big lumen, monopolar
WA69340L	Jaws insert "HICURA", 5 x 430, with big lumen, monopolar

HICURA

5 mm Grasping Forceps (cont.)



- Manhes forceps:
Precise fixation and manipulation of fragile tissue
- Crocodile type forceps:
For strong and tight fixation of tissue
(e.g. stomach, gall bladder)
- Wave type forceps:
Dedicated grasping forceps for bowel and fragile tissue
- Johann forceps:
Atraumatic fenestrated multipurpose grasping
forceps with large jaws and good visibility

Manhes Forceps

Components

WA69342M	Jaws insert "HICURA", 5 x 330, Manhes, monopolar
WA69342S	Jaws insert "HICURA", 5 x 250, Manhes, monopolar
WA69342L	Jaws insert "HICURA", 5 x 430, Manhes, monopolar

Wave Type Grasping Forceps

Components

WA69334M	Jaws insert "HICURA", 5 x 330, wave type, monopolar
WA69334S	Jaws insert "HICURA", 5 x 250, wave type, monopolar
WA69334L	Jaws insert "HICURA", 5 x 430, wave type, monopolar

Crocodile Type Forceps

Components

WA69346M	Jaws insert "HICURA", 5 x 330, crocodile type, monopolar
WA69346S	Jaws insert "HICURA", 5 x 250, crocodile type, monopolar
WA69346L	Jaws insert "HICURA", 5 x 430, crocodile type, monopolar

Johann Forceps

Components

WA69310M	Jaws insert "HICURA", 5 x 330, Johann, monopolar
WA69310S	Jaws insert "HICURA", 5 x 250, Johann, monopolar
WA69310L	Jaws insert "HICURA", 5 x 430, Johann, monopolar

HICURA

5 mm Grasping Forceps (cont.)



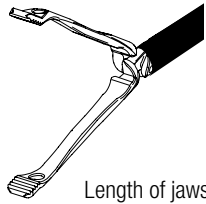
- Babcock forceps:
Widest inner lumen of all the 5 mm HICURA hand instruments; “paddle” design for maximum grasping performance without damage to soft tissue (e.g. colon)



- Long Johann forceps:
Longest jaws in the 5 mm line of HICURA hand instruments for atraumatic grasping of larger organs (e.g. colon)



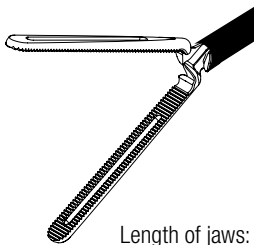
- Johann single-action forceps:
The single-action mechanism offers improved handling in restricted operation areas and enables atraumatic and firm grasping of soft tissue (e.g. colon)

Babcock Forceps

Length of jaws: 31 mm

Components

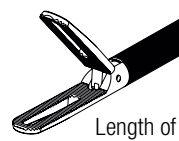
WA69316M	Jaws insert "HICURA", 5 x 330, Babcock, monopolar
WA69316S	Jaws insert "HICURA", 5 x 250, Babcock, monopolar
WA69316L	Jaws insert "HICURA", 5 x 430, Babcock, monopolar

Long Johann Forceps

Length of jaws: 40 mm

Components

WA69314M	Jaws insert "HICURA", 5 x 330, Johann long, monopolar
WA69314S	Jaws insert "HICURA", 5 x 250, Johann long, monopolar
WA69314L	Jaws insert "HICURA", 5 x 430, Johann long, monopolar

Johann Single-Action Forceps

Length of jaws: 24 mm

Components

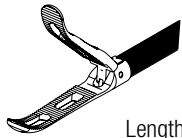
WA69312M	Jaws insert "HICURA", 5 x 330, Johann, single action, monopolar
WA69312S	Jaws insert "HICURA", 5 x 250, Johann, single action, monopolar
WA69312L	Jaws insert "HICURA", 5 x 430, Johann, single action, monopolar

HICURA

5 mm Grasping Forceps (cont.)



- CroceOlmi forceps:
Special jaws design allows grasping and refixation of tissue from the hernia sac, together with bowel manipulation
- DeBakey forceps:
Fine-toothed jaws design and long jaws allow atraumatic grasping of the bowel and other delicate tissue
- Forceps with lumen:
Good atraumatic grip due to inner lumen and short length. The lumen creates a tweezer effect. Useful in endometriosis treatment
- Clinching forceps:
Special jaws design allows atraumatic firm grasping of the gall bladder and other slippery tissue. Mandatory for cholecystectomy

CroceOlmi Forceps

Length of jaws: 29 mm

Components

WA69320M	Jaws insert "HICURA", 5 x 330, CroceOlmi, monopolar
WA69320S	Jaws insert "HICURA", 5 x 250, CroceOlmi, monopolar
WA69320L	Jaws insert "HICURA", 5 x 430, CroceOlmi, monopolar

Forceps with Lumen

Length of jaws: 16 mm

Components

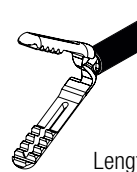
WA69330M	Jaws insert "HICURA", 5 x 330, with lumen, monopolar
WA69330S	Jaws insert "HICURA", 5 x 250, with lumen, monopolar
WA69330L	Jaws insert "HICURA", 5 x 430, with lumen, monopolar

DeBakey Forceps

Length of jaws: 31 mm

Components

WA69318M	Jaws insert "HICURA", 5 x 330, DeBakey, monopolar
WA69318S	Jaws insert "HICURA", 5 x 250, DeBakey, monopolar
WA69318L	Jaws insert "HICURA", 5 x 430, DeBakey, monopolar

Clinching Forceps

Length of jaws: 26 mm

Components

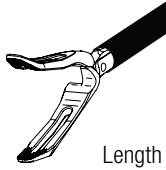
WA69332M	Jaws insert "HICURA", 5 x 330, Clinching, monopolar
WA69332S	Jaws insert "HICURA", 5 x 250, Clinching, monopolar
WA69332L	Jaws insert "HICURA", 5 x 430, Clinching, monopolar

HICURA

5 mm Grasping Forceps (cont.)



- Precision forceps:
Grasping forceps for very precise grasping performance
- Long Precision forceps:
Longer branch lengths improve overview and handling
- Flat forceps for thoracic surgery:
For atraumatic manipulation of tissue
- Forceps for thoracic surgery:
For atraumatic manipulation of tissue

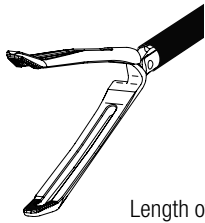
Precision Forceps

M
330_{mm}

Length of jaws: 24 mm

Components

WA69322M Jaws insert "HICURA", 5 x 330, Precision, monopolar

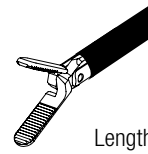
Long Precision Forceps

M
330_{mm}

Length of jaws: 36 mm

Components

WA69324M Jaws insert "HICURA",
5 x 330, long Precision, monopolar

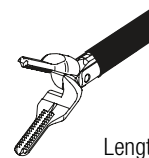
Flat Forceps for Thoracic Surgery

S
250_{mm}

Length of jaws: 14 mm

Components

WA69326S Jaws insert "HICURA",
5 x 250, flat, for thoracic surgery, monopolar

Forceps for Thoracic Surgery

S
250_{mm}

Length of jaws: 16 mm

Components

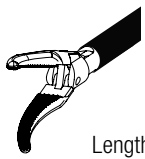
WA69328S Jaws insert "HICURA",
5 x 250, for thoracic surgery, monopolar

HICURA

5 mm Dissection Forceps



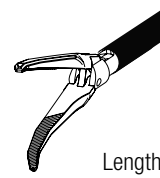
- Maryland forceps:
Multipurpose curved dissection forceps with cross-cut surface for strong grasping and all laparoscopic applications
- Maryland long forceps:
Longer branch length improves overview and handling
- Precision forceps:
For very precise dissection

Maryland ForcepsS
250_{mm}M
330_{mm}L
430_{mm}

Length of jaws: 17 mm

Components

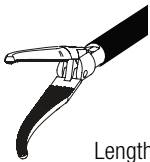
WA69350M	Jaws insert "HICURA", 5 x 330, Maryland, monopolar
WA69350S	Jaws insert "HICURA", 5 x 250, Maryland, monopolar
WA69350L	Jaws insert "HICURA", 5 x 430, Maryland, monopolar

Precision ForcepsM
330_{mm}

Length of jaws: 25 mm

Components

WA69354M	Jaws insert "HICURA", 5 x 330, Precision, monopolar
-----------------	--

Maryland Long ForcepsS
250_{mm}M
330_{mm}L
430_{mm}

Length of jaws: 21 mm

Components

WA69352M	Jaws insert "HICURA", 5 x 330, Maryland long, monopolar
WA69352S	Jaws insert "HICURA", 5 x 250, Maryland long, monopolar
WA69352L	Jaws insert "HICURA", 5 x 430, Maryland long, monopolar

HICURA

5 mm Dissection Forceps (cont.)



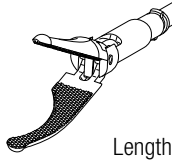
- Tear drop dissector:
To ensure atraumatic blunt dissection of fragile tissue



- Maryland straight forceps:
For delicate dissection and needle holder assistance



- Maryland 90° angled forceps:
For blood vessel dissection

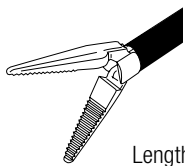
Tear Drop Forceps

M
330mm

Length of jaws: 16 mm

Components

WA69362M Jaws insert "HICURA",
5 x 330, Tear drop forceps,
monopolar

Maryland Straight Forceps

S
250mm

M
330mm

L
430mm

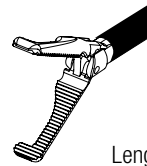
Length of jaws: 15 mm

Components

WA69356M Jaws insert "HICURA",
5 x 330, Maryland straight,
monopolar

WA69356S Jaws insert "HICURA",
5 x 250, Maryland straight,
monopolar

WA69356L Jaws insert "HICURA",
5 x 430, Maryland straight,
monopolar

Maryland 90° Angled Forceps

S
250mm

M
330mm

L
430mm

Length of jaws: 18 mm

Components

WA69358M Jaws insert "HICURA",
5 x 330, Maryland 90° angled,
monopolar

WA69358S Jaws insert "HICURA",
5 x 250, Maryland 90° angled,
monopolar

WA69358L Jaws insert "HICURA",
5 x 430, Maryland 90° angled,
monopolar

HICURA

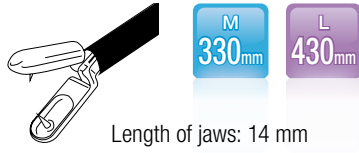
5 mm Biopsy Forceps



- Biopsy forceps with spikes



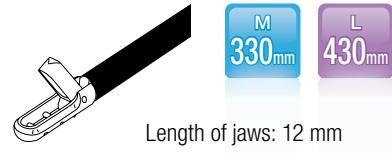
- Severing biopsy forceps

Biopsy Forceps with Spikes

Components

WA69390M Jaws insert "HICURA",
5 x 330, with spike,
monopolar

WA69390L Jaws insert "HICURA",
5 x 430, with spike,
monopolar

Severing Biopsy Forceps

Components

WA69392M Jaws insert "HICURA",
5 x 330, severing,
monopolar

WA69392L Jaws insert "HICURA",
5 x 430, severing,
monopolar

HICURA

5 mm Monopolar Scissors



- Precision scissors:
For delicate manipulations
in areas with limited space



- Metzenbaum scissors:
Multipurpose scissors for all
laparoscopic applications



- Mini-Metzenbaum scissors:
For precise cutting and preparation

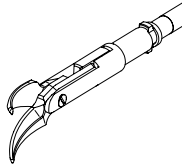


- Hook scissors:
For cutting of sutures



- Straight scissors

Precision Scissors

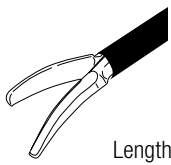


M
330mm

Components

WA69378M Jaws insert "HICURA", 5 x 330, Precision Scissors, monopolar

Metzenbaum Scissors



S
250mm

M
330mm

L
430mm

Length of jaws: 19 mm

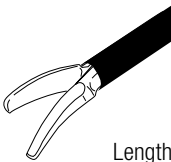
Components

WA69370M Jaws insert "HICURA", 5 x 330, Metzenbaum, monopolar

WA69370S Jaws insert "HICURA", 5 x 250, Metzenbaum, monopolar

WA69370L Jaws insert "HICURA", 5 x 430, Metzenbaum, monopolar

Mini-Metzenbaum Scissors



S
250mm

M
330mm

L
430mm

Length of jaws: 16 mm

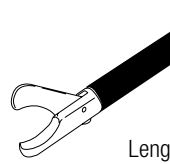
Components

WA69372M Jaws insert "HICURA", 5 x 330, Metzenbaum mini, monopolar

WA69372S Jaws insert "HICURA", 5 x 250, Metzenbaum mini, monopolar

WA69372L Jaws insert "HICURA", 5 x 430, Metzenbaum mini, monopolar

Hook Scissors



S
250mm

M
330mm

L
430mm

Length of jaws: 12 mm

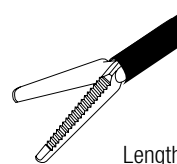
Components

WA69376M Jaws insert "HICURA", 5 x 330, hook, monopolar

WA69376S Jaws insert "HICURA", 5 x 250, hook, monopolar

WA69376L Jaws insert "HICURA", 5 x 430, hook, monopolar

Straight Scissors



S
250mm

M
330mm

L
430mm

Length of jaws: 19 mm

Components

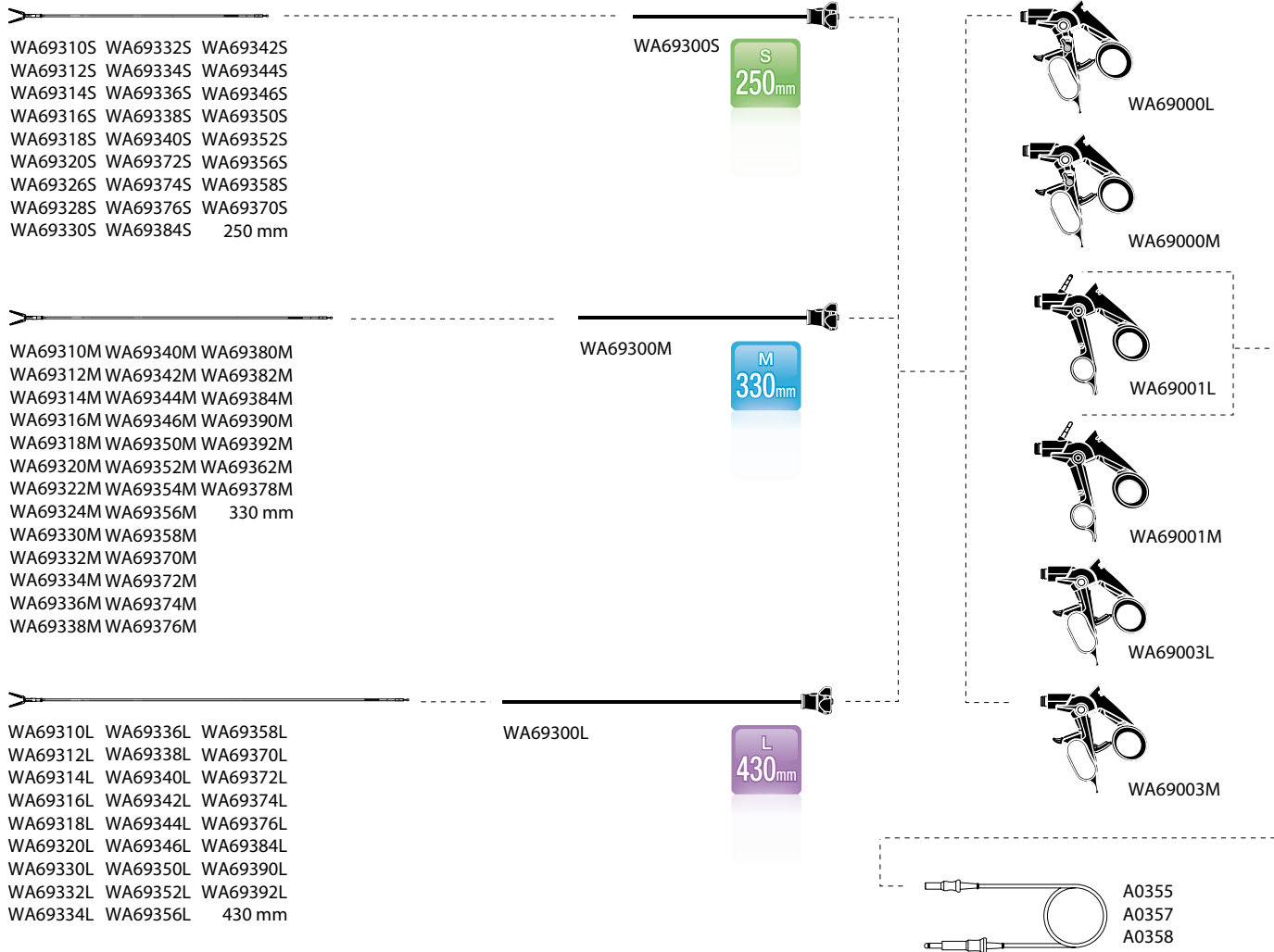
WA69374M Jaws insert "HICURA", 5 x 330, straight, monopolar

WA69374S Jaws insert "HICURA", 5 x 250, straight, monopolar

WA69374L Jaws insert "HICURA", 5 x 430, straight, monopolar

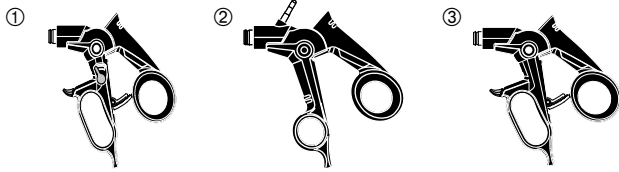
HICURA

Standard and Monopolar,
Accessories and Spare Parts



Surgery

HICURA Handles



- ① **WA69000M** Handle "HICURA", deactivatable ratchet, size M

- WA69000L** Handle "HICURA", deactivatable ratchet, size L

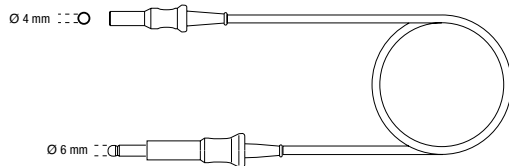
- ② **WA69001M** Handle "HICURA", monopolar, size M

- WA69001L** Handle "HICURA", monopolar, size L

- ③ **WA69003M** Handle "HICURA", ratchet, size M

- WA69003L** Handle "HICURA", ratchet, size L

HF Cables

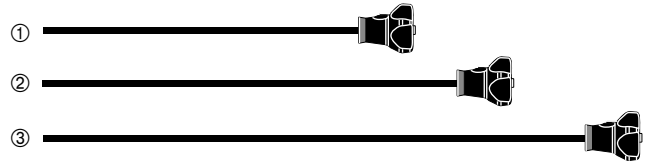


- A0358** HF cable, monopolar
Compatible HF units:
 - ESG-400
 - ESG-410
 - Valleylab (new)

- A0355** HF cable, monopolar
Compatible HF units:
 - Valleylab (old)

- A0357** HF cable, monopolar
Compatible HF units:
 - ESG-400
 - ESG-410
 - Erbe T series
 - Berchtold

HICURA Shafts

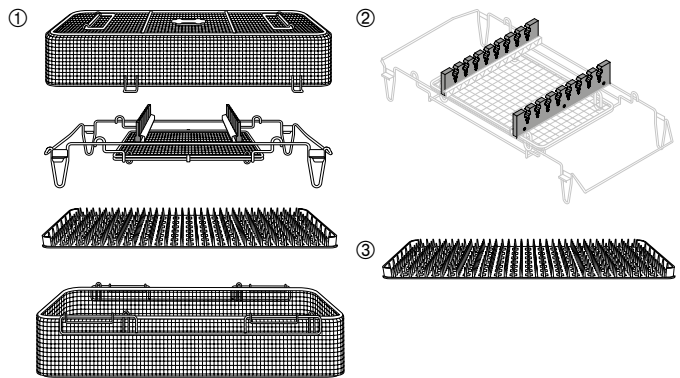


- ① **WA69300S** Shaft "HICURA", 5 x 250, monopolar

- ② **WA69300M** Shaft "HICURA", 5 x 330, monopolar

- ③ **WA69300L** Shaft "HICURA", 5 x 430, monopolar

Instrument Basket System



- ① **WA05956A** Instrument basket system, for HiQ+, HICURA

- ② **WA05957A** Spare retainer, silicone, set, 2 pcs., for WA05956A

- ③ **WA05958A** Spare mat, nubby, silicone, for WA05956A

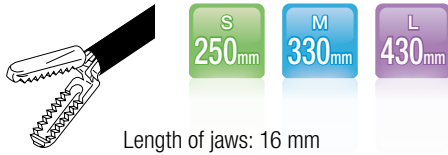
HiQ+

5 mm Grasping Forceps



- Atraumatic grasping forceps:
Multipurpose grasping forceps for all laparoscopic applications
- Claw forceps:
For recoverage of gall bladder, myoma, etc.
- Flat grasping forceps:
Multipurpose fenestrated grasping forceps for all laparoscopic applications
- Grasping forceps with lumen:
Atraumatic grasping forceps for delicate tissue (e.g. bowel, tubes)

Atraumatic Grasping Forceps

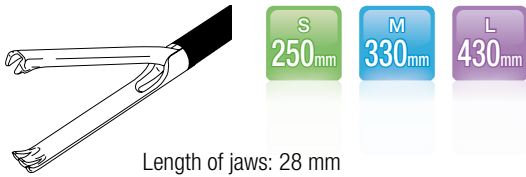


Length of jaws: 16 mm

Components

A64010S	Jaws "HiQ+", 5 x 250 mm, grasping forceps
A64010A	Jaws "HiQ+", 5 x 330 mm, grasping forceps
A64010L	Jaws "HiQ+", 5 x 430 mm, grasping forceps

Claw Forceps

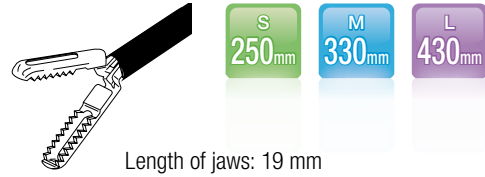


Length of jaws: 28 mm

Components

WA64020S	Jaws "HiQ+", 5 x 250 mm, grasping forceps, claw type
A64020A	Jaws "HiQ+", 5 x 330 mm, claw type
WA64020L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, claw type

Flat Grasping Forceps

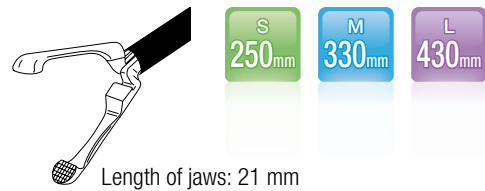


Length of jaws: 19 mm

Components

WA64030S	Jaws "HiQ+", 5 x 250 mm, grasping forceps, flat
A64030A	Jaws "HiQ+", 5 x 330 mm, grasping forceps
WA64030L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, flat

Grasping Forceps with Lumen



Length of jaws: 21 mm

Components

WA64040S	Jaws "HiQ+", 5 x 250 mm, grasping forceps, lumen
A64040A	Jaws "HiQ+", 5 x 330 mm, lumen
WA64040L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, lumen

HiQ+

5 mm Grasping Forceps (cont.)



- Manhes forceps:
Precise fixation and manipulation of fragile tissue



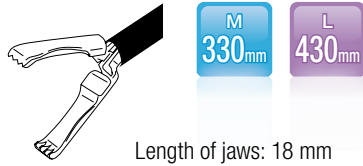
- Crocodile forceps:
For strong and tight fixation of tissue
(e.g. stomach, gall bladder)



- Atraumatic wave type forceps:
Dedicated grasping forceps for bowel and fragile tissue

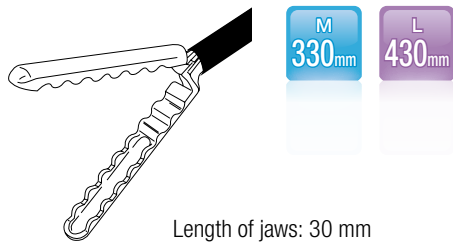


- Johann forceps:
Atraumatic fenestrated multipurpose grasping
forceps with large jaws and good visibility

Manhes Forceps

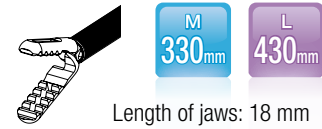
Components

A64050A	Jaws "HiQ+", 5 x 330 mm, Manhes
WA64050L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, Manhes

Manhes Forceps

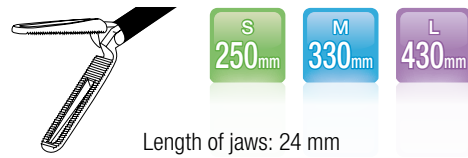
Components

A64080A	Jaws "HiQ+", 5 x 330 mm, wave type
WA64080L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, wave type

Crocodile Forceps

Components

A64070A	Jaws "HiQ+", 5 x 330 mm, alligator type
WA64070L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, alligator type

Johann Forceps

Components

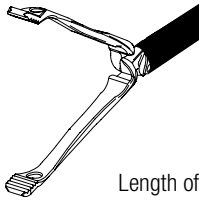
A64120S	Jaws "HiQ+", 5 x 250 mm, fine tooth, fenestrated
A64120A	Jaws "HiQ+", 5 x 330 mm, fine tooth, fenestrated
WA64120L	Jaws "HiQ+", 5 x 430 mm, Johann

HiQ+

5 mm Grasping Forceps (cont.)



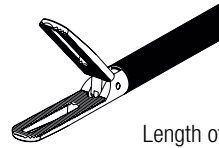
- Babcock forceps:
Widest inner lumen of all 5 mm HiQ+ hand instruments, “paddle” design for maximum grasping performance without damage of soft tissue (e.g. colon)
- Long Johann forceps:
Longest jaws in the 5 mm line of HiQ+ hand instruments for atraumatic grasping of larger organs (e.g. colon)
- Johann single-action forceps:
The single-action mechanism offers improved handling in limited operation areas and allows an atraumatic and firm grasping of soft tissue (e.g. colon)

Babcock ForcepsM
330mmL
430mm

Length of jaws: 31 mm

Components

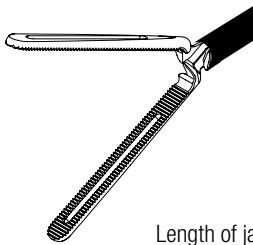
WA64140A	Jaws "HiQ+", 5 x 330 mm, Babcock
WA64140L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, Babcock

Johann Single-Action ForcepsM
330mmL
430mm

Length of jaws: 24 mm

Components

WA64190A	Jaws "HiQ+", 5 x 330 mm, grasping forceps, Johann, single action
WA64190L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, Johann, single action

Long Johann ForcepsM
330mmL
430mm

Length of jaws: 40 mm

Components

WA64130A	Jaws "HiQ+", 5 x 330 mm, Johann long
WA64130L	Jaws "HiQ+", 5 x 430 mm, grasping forceps, Johann long

HiQ+

5 mm Grasping Forceps (cont.)



- CroceOlmi forceps:
Allows through a special jaws design the grasping and refixation of the tissue out of the hernia sac and bowel manipulation



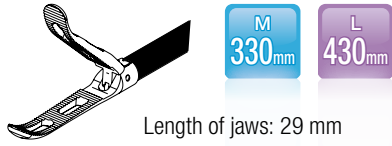
- DeBakey forceps:
Fine toothed jaws design and long jaws allow atraumatic grasping of the bowel and other delicate tissue



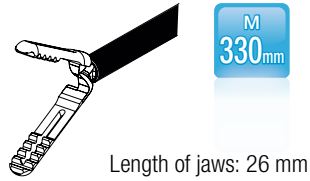
- Atraumatic forceps with lumen:
Due to inner lumen and short overall length the jaws provide a good atraumatic grip. The lumen creates a tweezer effect. Both the atraumatic grip and the tweezer effect are perfect for perpendicular grasping as needed in the endometriosis treatment



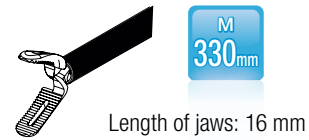
- Clinching forceps:
Allows atraumatic, firm grasping of the gall bladder and other slippery tissue through its special tooth design. Mandatory jaws for cholecystectomy

CroceOlmi Grasping Forceps

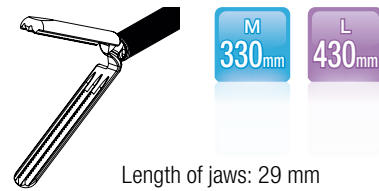
Components

WA64150A Jaws "HiQ+", 5 x 330 mm, grasping forceps, CroceOlmi**WA64150L** Jaws "HiQ+", 5 x 430 mm, grasping forceps, CroceOlmi**Clinching Forceps**

Components

WA64180A Jaws "HiQ+", 5 x 330 mm, grasping forceps, Clinching**Atraumatic Forceps with Lumen**

Components

WA64170A Jaws "HiQ+", 5 x 330 mm, grasping forceps, atraumatic, lumen**DeBakey Grasping Forceps**

Components

WA64160A Jaws "HiQ+", 5 x 330 mm, grasping forceps, DeBakey**WA64160L** Jaws "HiQ+", 5 x 430 mm, grasping forceps, DeBakey

HiQ+

5 mm Dissection Forceps



- Maryland forceps:
Multipurpose curved dissection forceps
for all laparoscopic applications



- Short Maryland forceps:
For precise dissection and needle holder assistance

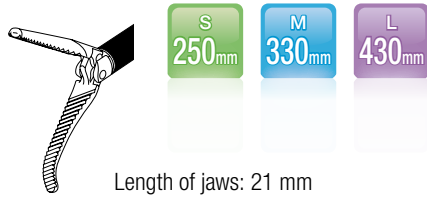


- Maryland cross tooth:
The cross tooth surface design allows
stronger grasping performance



- Fine Maryland cross tooth:
Longer branch length improves the overview
and handling. The cross tooth surface
allows stronger grasping performance

Maryland Forceps

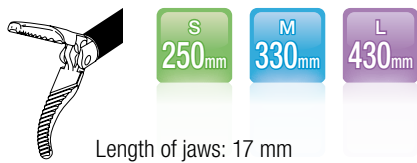


Length of jaws: 21 mm

Components

A64320S	Jaws "HiQ+", 5 x 250 mm, dissection forceps, Maryland
A64320A	Jaws "HiQ+", 5 x 330 mm, dissection forceps, Maryland
A64320L	Jaws "HiQ+", 5 x 430 mm, dissection forceps, Maryland

Short Maryland Forceps



Length of jaws: 17 mm

Components

WA64340S	Jaws "HiQ+", 5 x 250 mm, dissection forceps, Maryland, short
A64340A	Jaws "HiQ+", 5 x 330 mm, dissection forceps, Maryland, short
WA64340L	Jaws "HiQ+", 5 x 430 mm, dissection forceps, Maryland, short

Maryland Forceps with Cross Tooth Pattern

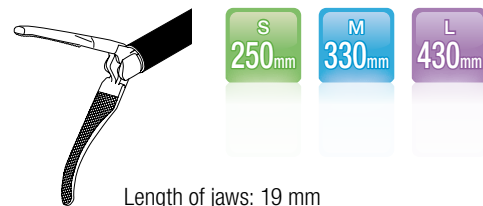


Length of jaws: 17 mm

Components

WA64350S	Jaws "HiQ+", 5 x 250 mm, dissection forceps, Maryland, cross tooth pattern
WA64350A	Jaws "HiQ+", 5 x 330 mm, Dissection forceps, Maryland, cross tooth pattern
WA64350L	Jaws "HiQ+", 5 x 430 mm, dissection forceps, Maryland, cross tooth pattern

Fine Maryland Forceps with Cross Tooth Pattern



Length of jaws: 19 mm

Components

WA64370S	Jaws "HiQ+", 5 x 250 mm, dissection forceps, Maryland fine, cross tooth pattern
WA64370A	Jaws "HiQ+", 5 x 330 mm, dissection forceps, Maryland fine, cross tooth pattern
WA64370L	Jaws "HiQ+", 5 x 430 mm, dissection forceps, Maryland fine, cross tooth pattern

HiQ+

5 mm Dissection Forceps (cont.)

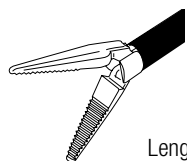


- Straight dissection forceps:
For delicate dissection and needle holder assistance



- Right angle dissector:
For blood vessel dissection

Dissection Forceps

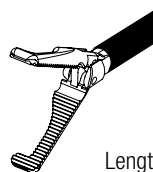
S
250_{mm}M
330_{mm}L
430_{mm}

Length of jaws: 15 mm

Components

A64310S	Jaws "HiQ+", 5 x 250 mm, dissection forceps, straight
A64310A	Jaws "HiQ+", 5 x 330 mm, dissection forceps, straight
WA64310L	Jaws "HiQ+", 5 x 430 mm, dissection forceps, straight

Right Angle Dissection Forceps

S
250_{mm}M
330_{mm}L
430_{mm}

Length of jaws: 18 mm

Components

WA64330S	Jaws "HiQ+", 5 x 250 mm, dissection forceps, 90° angled
WA64330A	Jaws "HiQ+", 5 x 330 mm, 90° angled
WA64330L	Jaws "HiQ+", 5 x 430 mm, dissection forceps, 90° angled

HiQ+

5 mm Biopsy Forceps

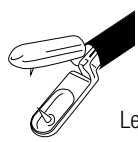


- Biopsy forceps with spike



- Severing biopsy forceps

Biopsy Forceps

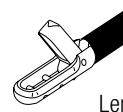
S
250mmM
330mmL
430mm

Length of jaws: 14 mm

Components

A64610S	Jaws "HiQ+", 5 x 250 mm, biopsy forceps, with spike
A64610A	Jaws "HiQ+", 5 x 330 mm, with spike, biopsy forceps
A64610L	Jaws "HiQ+", 5 x 430 mm, biopsy forceps, with spike

Biopsy Forceps

M
330mmL
430mm

Length of jaws: 12 mm

Components

A64620A	Jaws "HiQ+", 5 x 330 mm, biopsy forceps, severing
WA64620L	Jaws "HiQ+", 5 x 430 mm, biopsy forceps, severing

HiQ+

5 mm Monopolar Scissors



- Metzenbaum:
Multipurpose scissors for all laparoscopic applications



- Mini-Metzenbaum:
For precise cutting and preparation

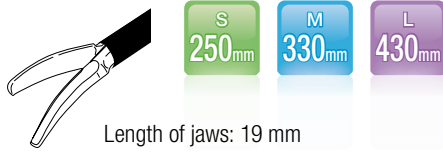


- Hook scissors:
For cutting of sutures



- Straight scissors

Metzenbaum Scissors



Length of jaws: 19 mm

Components

A64810S	Jaws "HiQ+", 5 x 250 mm, scissors, Metzenbaum
A64810A	Jaws "HiQ+", 5 x 330 mm, scissors, Metzenbaum
A64810L	Jaws "HiQ+", 5 x 430 mm, scissors, Metzenbaum

Hook Scissors

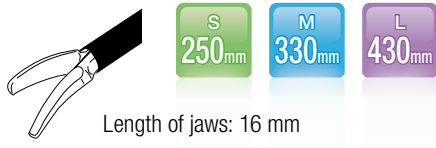


Length of jaws: 12 mm

Components

A64820S	Jaws "HiQ+", 5 x 250 mm, hook scissors
A64820A	Jaws "HiQ+", 5 x 330 mm, hook scissors
A64820L	Jaws "HiQ+", 5 x 430 mm, hook scissors

Mini-Metzenbaum Scissors

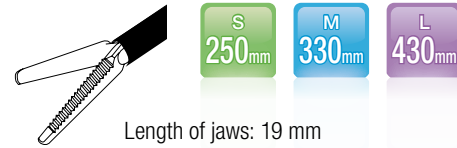


Length of jaws: 16 mm

Components

WA64840S	Jaws "HiQ+", 5 x 250 mm, scissors, Mini-Metzenbaum
A64840A	Jaws "HiQ+", 5 x 330 mm, scissors, Mini-Metzenbaum
WA64840L	Jaws "HiQ+", 5 x 430 mm, scissors, Mini-Metzenbaum

Straight Scissors



Length of jaws: 19 mm

Components

WA64830S	Jaws "HiQ+", 5 x 250 mm, scissors, straight
A64830A	Jaws "HiQ+", 5 x 330 mm, scissors, straight
WA64830L	Jaws "HiQ+", 5 x 430 mm, scissors, straight

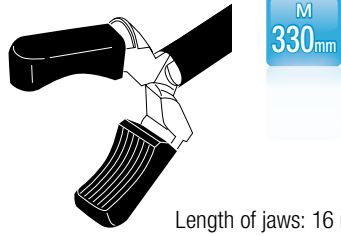
HiQ+

10 mm Hand Instruments



- CBD forceps:
Soft-layered grasping forceps dedicated for manipulation of fragile tissue and flexible telescopes
- Claw forceps:
For recovery of gall bladder, myoma, etc.
- Babcock forceps:
For manipulation of large fragile tissue (e.g. bowel, stomach)
- Babcock-Atrauma forceps:
Widest inner lumen of all 10 mm HiQ+ hand instruments; "paddle" design for maximum grasping performance with no damage of soft tissue (e.g. colon)

CBD Grasping Forceps

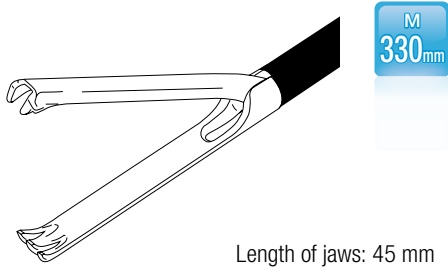


Length of jaws: 16 mm

Components

A66070A Jaws "HiQ+", 10 x 330 mm grasping forceps, CBD

Claw Forceps

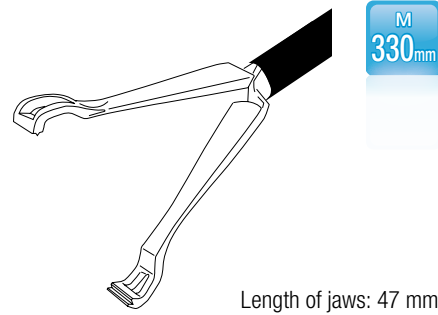


Length of jaws: 45 mm

Components

A66020A Jaws "HiQ+", 10 x 330 mm grasping forceps, claw type

Babcock Forceps

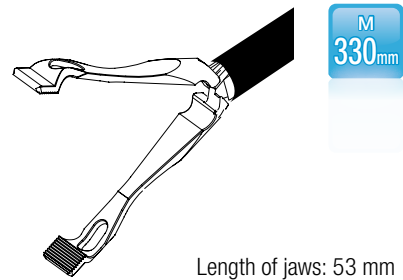


Length of jaws: 47 mm

Components

A66050A Jaws "HiQ+", 10 x 330 mm grasping forceps, Babcock

Babcock-Atrauma Forceps



Length of jaws: 53 mm

Components

WA66040A Jaws "HiQ+", 10 x 330 mm grasping forceps, Babcock-Atrauma

Surgery

HiQ+

10 mm Hand Instruments (cont.)



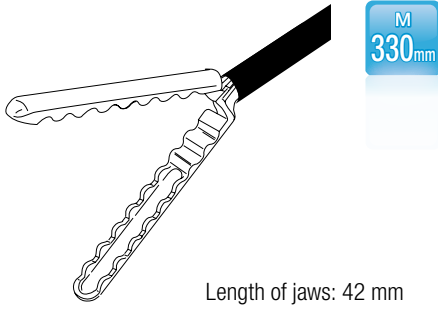
- Atraumatic wave type forceps:
Dedicated grasping forceps for bowel and fragile tissue



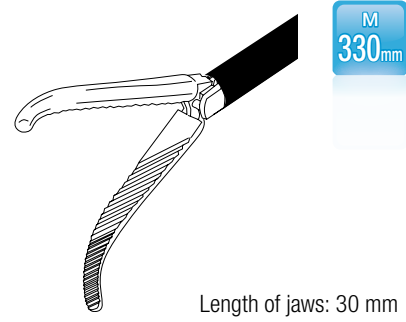
- Maryland forceps:
Multipurpose curved dissection forceps
for all laparoscopic applications



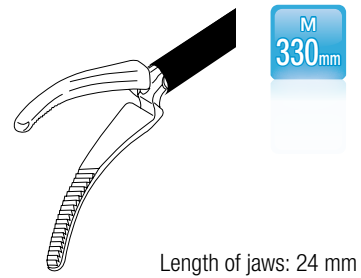
- Short Maryland forceps:
For precise dissection and needle holder assistance

Atraumatic Grasping Forceps

Components

A66060A Jaws "HiQ+", 10 x 330 mm grasping forceps, wave type**Maryland Forceps**

Components

A66310A Jaws "HiQ+", 10 x 330 mm dissection forceps, Maryland**Short Maryland Forceps**

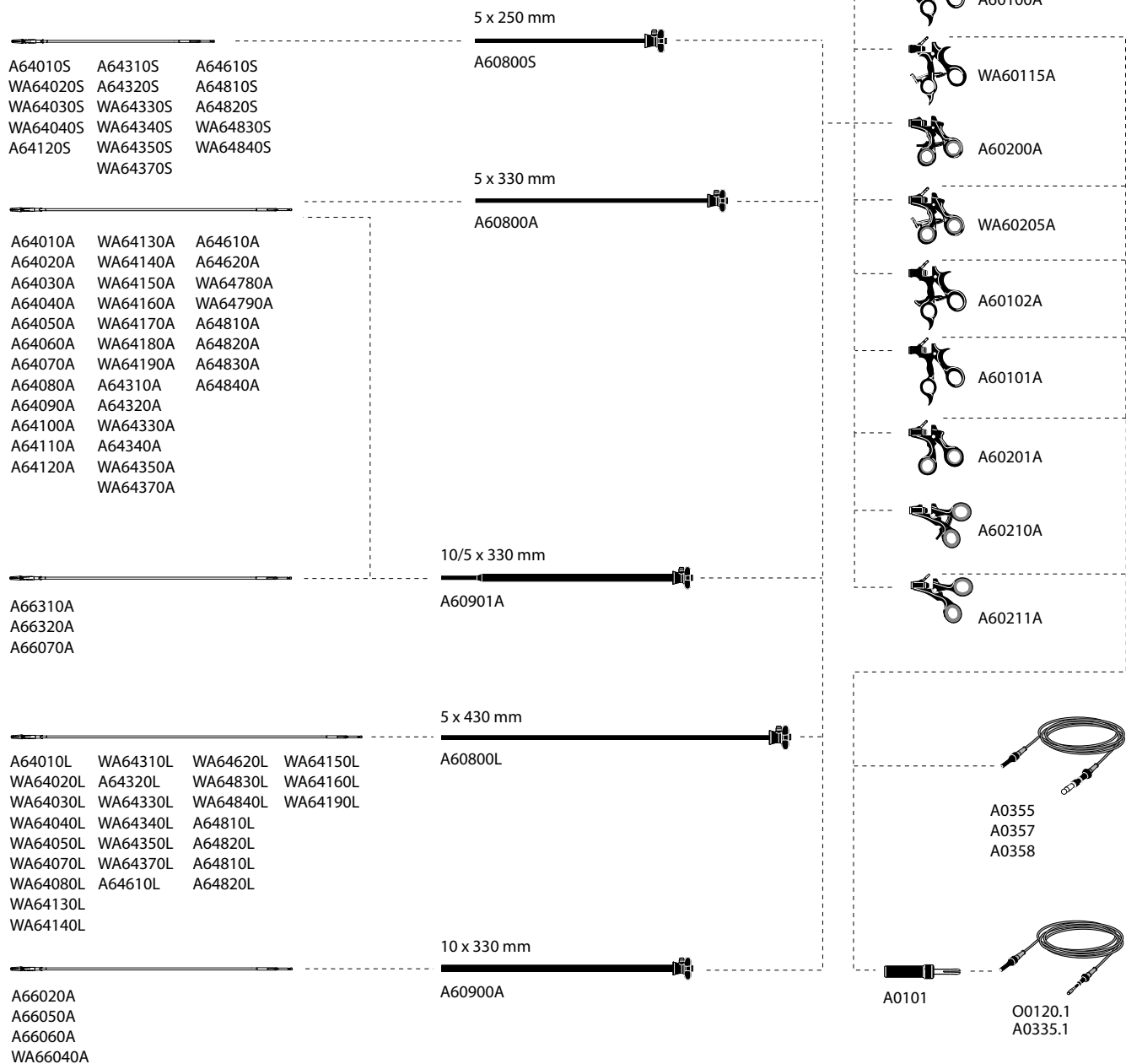
Components

A66320A Jaws "HiQ+", 10 x 330 mm dissection forceps, Maryland, short

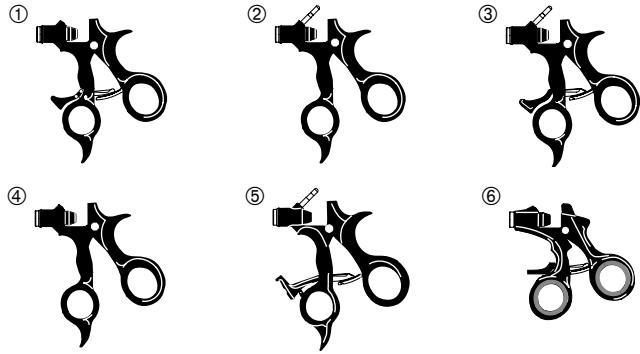
HiQ+

Accessories and Spare Parts

Surgery

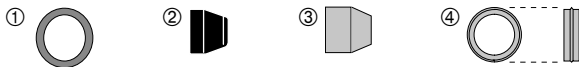


HiQ+ Ergo Handles



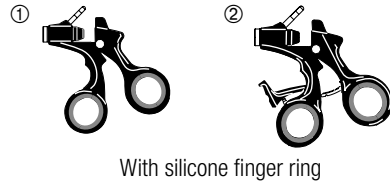
- | | |
|-------------------|--|
| ① A60100A | Handle "HiQ+", Ergo, ratchet |
| ② A60101A | Handle "HiQ+", Ergo, monopolar |
| ③ A60102A | Handle "HiQ+", Ergo, ratchet, monopolar |
| ④ WA60103A | Handle "HiQ+", Ergo |
| ⑤ WA60115A | Handle "HiQ+", Ergo, deactivatable ratchet |
| ⑥ A60200A | Handle "HiQ+", Ergo S, ratchet |

Spare Parts



- | | |
|------------------|---|
| ① A0389 | Finger ring, silicone, for HiQ+ |
| ② A03440A | Sealing cap, 2.2 mm, 10 pcs. |
| ③ A03441A | Spare button, for shaft, 10 pcs. |
| ④ A03442A | Spare sealing ring "HiQ+", for shaft, 20 pcs. |

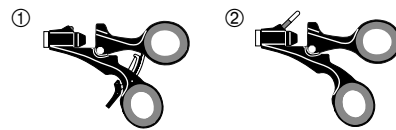
HiQ+ Ergo S Handles



With silicone finger ring

- | | |
|-------------------|--|
| ① A60201A | Handle "HiQ+", Ergo S, monopolar |
| ② WA60205A | Handle "HiQ+", Ergo S, deactivatable ratchet monopolar |

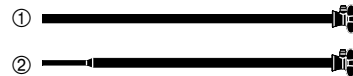
HiQ+ Semi-Inline S Handles



With silicone finger ring

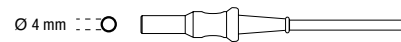
- | | |
|------------------|--|
| ① A60210A | Handle "HiQ+", semi-inline S, with ratchet |
| ② A60211A | Handle "HiQ+", semi-inline S, monopolar |

HiQ+ Shafts



- | | |
|------------------|---|
| ① A60900A | Shaft "HiQ+", 10 x 330 mm, insulated |
| ② A60901A | Shaft "HiQ+", 10 x 330 mm, insulated, tapered |

HF Cables



- | | |
|--------------|--|
| A0358 | HF cable, monopolar
Compatible HF units: <ul style="list-style-type: none"> ESG-400 ESG-410 Valleylab (new) |
| A0355 | HF cable, monopolar
Compatible HF units: <ul style="list-style-type: none"> Valleylab (old) |
| A0357 | HF cable, monopolar
Compatible HF units: <ul style="list-style-type: none"> ESG-400 ESG-410 Erbe T series Berchtold |

Surgery

HICURA

Bipolar Hand Instruments



Surgery



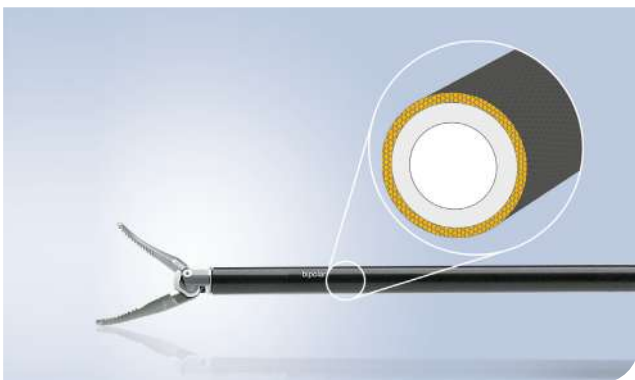
reddot award 2014
winner



- Color coding for clear instrument identification
HICURA bipolar hand instruments are color-coded on the handle and the rotation wheel. The inserts also have a white insulation, so this allows rapid identification of all the bipolar components.



- Excellent jaws insulation
The bipolar jaws are PFA insulated, thus reducing the risk of coagulation failures. The design of HICURA bipolar instruments allows strong grasping and effective coagulation, thereby combining monopolar mechanical strengths with bipolar coagulation.



- Safety first!
HICURA shafts are PEEK insulated in order to provide optimized stability, durability and electrical insulation.

HICURA

Bipolar Grasping Forceps



- Precision forceps:
Punctual grasping of thin tissues parts and stable atraumatic grasping of larger tissue parts



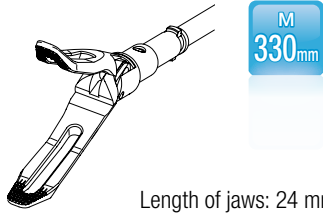
- Johann forceps:
Multipurpose grasping forceps for strong grasping and atraumatic dissection and all laparoscopic procedures



- Hirsch forceps:
For precise and atraumatic grasping



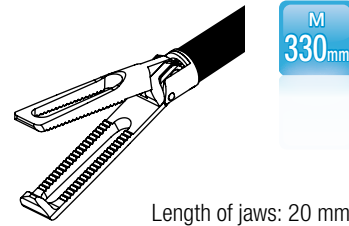
- Manhes forceps:
Grasping forceps for myomectomy and cystectomy

Precision Forceps

Length of jaws: 24 mm

Components

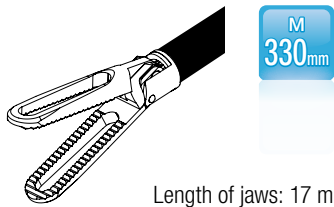
WA69424M Jaws insert "HICURA", 5 x 330, Precision Forceps, bipolar

Hirsch Forceps

Length of jaws: 20 mm

Components

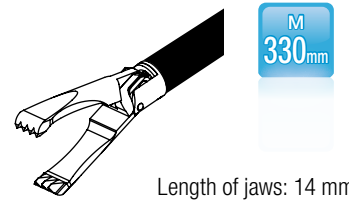
WA69412M Jaws insert "HICURA", 5 x 330, Hirsch, bipolar

Johann Forceps

Length of jaws: 17 mm

Components

WA69410M Jaws insert "HICURA", 5 x 330, Johann, bipolar

Manhes Forceps

Length of jaws: 14 mm

Components

WA69414M Jaws insert "HICURA", 5 x 330, Manhes, bipolar

HICURA

Bipolar Dissection Forceps



- Maryland forceps:
Multipurpose curved dissection forceps
for all laparoscopic procedures



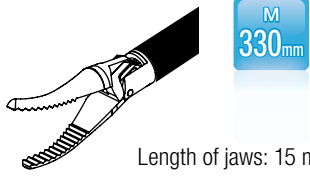
- Fine Maryland forceps:
Improved overview and handling
due to increased branch length



- Straight forceps:
Multipurpose straight dissection forceps
for all laparoscopic procedures

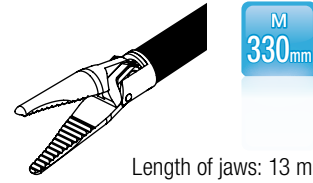


- Tweezers forceps:
For very delicate dissection and coagulation

Maryland Forceps

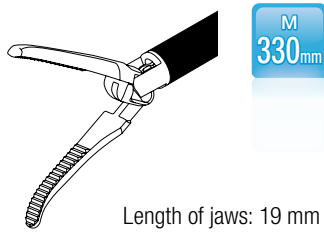
Length of jaws: 15 mm

Components

WA69416M Jaws insert "HICURA", 5 x 330, Maryland, bipolar**Straight Forceps**

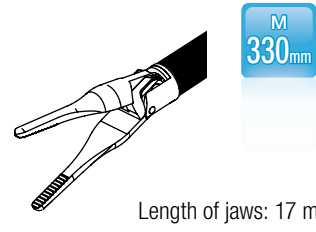
Length of jaws: 13 mm

Components

WA69420M Jaws insert "HICURA", 5 x 330, straight, bipolar**Fine Maryland Forceps**

Length of jaws: 19 mm

Components

WA69418M Jaws insert "HICURA", 5 x 330, Maryland fine, bipolar**Tweezers Forceps**

Length of jaws: 17 mm

Components

WA69422M Jaws insert "HICURA", 5 x 330, tweezers, bipolar

HICURA

Bipolar Accessories and Spare Parts

HICURA Bipolar Handle



WA69002M Handle "HICURA",
bipolar, size M

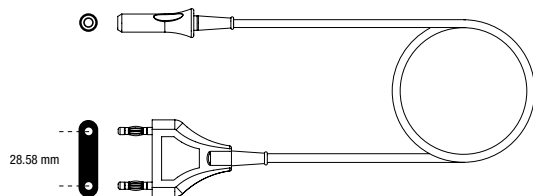
WA69002L Handle "HICURA",
bipolar, size L

HICURA Bipolar Shaft



WA69400M Shaft "HICURA",
5 x 330, bipolar

Bipolar HF Cable



A60003C HF cable, bipolar
Compatible HF units:

- ESG-400
- ESG-410
- Erbe VIO¹
- Valleylab HF units

A60001C HF cable, bipolar
Compatible HF units:

- ESG-410
- Erbe International HF units

Bipolar HF Cable (cont.)

A60002C HF cable, bipolar
Compatible HF units:

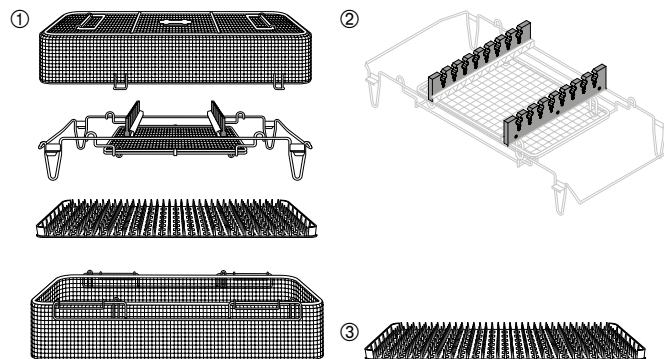
- Martin

A60000C HF cable, bipolar
Compatible HF units:

- ESG-400
- ESG-410
- HF-300
- Erbe HF units¹

¹ Depending on individual connector configuration

Instrument Basket System

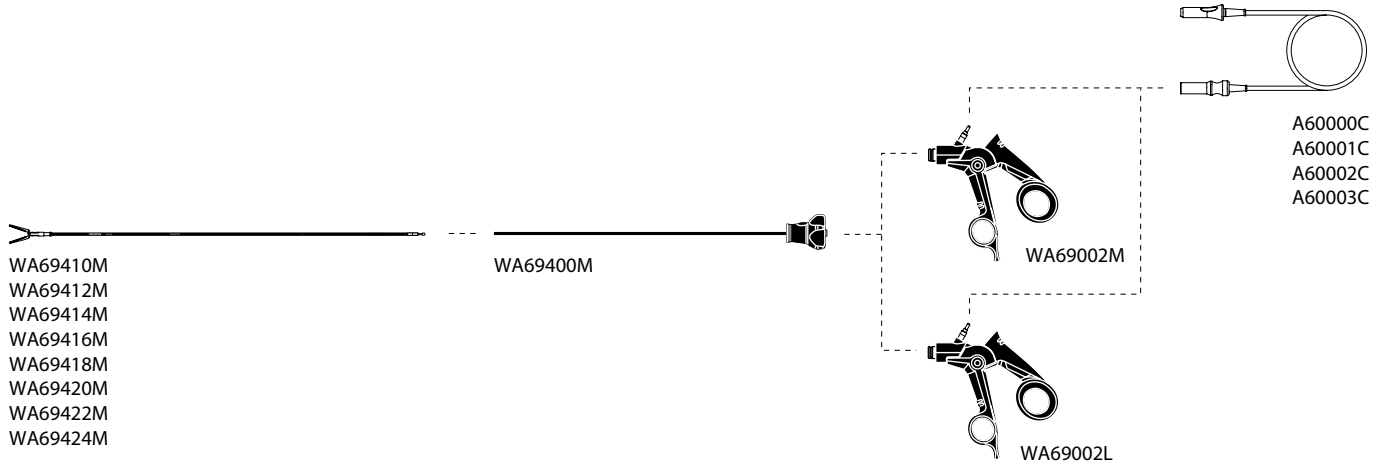


① **WA05956A** Instrument basket system,
for HiQ+, HICURA

② **WA05957A** Spare retainer,
silicone,
set, 2 pcs.,
for WA05956A

③ **WA05958A** Spare mat,
nubby,
silicone,
for WA05956A

System Chart



Surgery

HiQ+ Bipolar

Bipolar Hand Instruments



Design
Award
Winner
2009

The Olympus HiQ+ Bipolar series combines the safety benefits of bipolar technology with the precision and tactility of monopolar hand instruments. HiQ+ Bipolar hand instruments are designed for safe and reliable coagulation with the ability of strong grasping and dissecting.

The HiQ+ Bipolar series – a new standard for:

- Gynecology
- General Surgery
- Urology



- **Reliable coagulation:**
HiQ+ Bipolar is designed for reliable coagulation even in challenging situations. Coagulation of small vessels or stopping of sudden bleedings where joints may become covered with blood can be performed smoothly and reliably thanks to the unique joint insulation.



- **Bipolar safety:**
Bipolar instruments are known to be safer than monopolar devices as the electrical current flows directly between the instrument jaws, thus eliminating the need for a patient plate. Better control through focussed current flow within the surgeon's direct field of view. Reduces the risk of unpredictable current flow through the patient's body. Eliminates risk of injuries through malpositioning of the patient plate.



- **Strong grasping and dissection:**
Just as their monopolar counterparts, HiQ+ Bipolar instruments are designed for high performance during grasping and dissecting – but with bipolar safety. HiQ+ Bipolar replaces monopolar instruments even in procedures where strong grasping is required.



- **Easy reprocessing:**
The modular three part design and the “easy click” mechanism of HiQ+ Bipolar instruments allow easy assembly and disassembly. HiQ+ Bipolar instruments are autoclavable to meet high demands regarding sterilisation and disinfection.

HiQ+ Bipolar Grasping Forceps



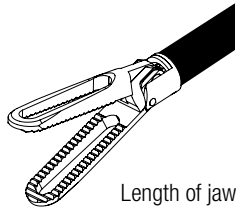
- Johann forceps:
Multipurpose forceps for strong grasping and atraumatic dissection for all laparoscopic procedures



- Hirsch forceps:
For tubal sterilization and endometriosis treatment



- Manhes forceps:
Grasping forceps for myomectomy and cystectomy

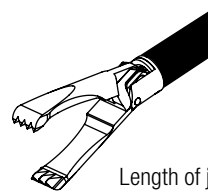
Johann ForcepsM
330_{mm}L
430_{mm}

Length of jaws: 16.5 mm

Components

WA64120C Jaws "HiQ+", bipolar, 5 x 330 mm, grasping forceps, fenestrated

WA64121C Jaws "HiQ+", bipolar, 5 x 430 mm, grasping forceps, fenestrated, long

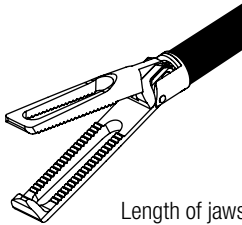
Manhes ForcepsM
330_{mm}L
430_{mm}

Length of jaws: 14 mm

Components

WA64050C Jaws "HiQ+", bipolar, 5 x 330 mm, grasping forceps, Manhes

WA64051C Jaws "HiQ+", bipolar, 5 x 430 mm, grasping forceps, Manhes, long

Hirsch ForcepsM
330_{mm}L
430_{mm}

Length of jaws: 19.7 mm

Components

WA64200C Jaws "HiQ+", bipolar, 5 x 330 mm, grasping forceps, Hirsch

WA64201C Jaws "HiQ+", bipolar, 5 x 430 mm, grasping forceps, Hirsch, long

HiQ+ Bipolar Dissection Forceps



- Maryland forceps:
Multipurpose curved dissection forceps for all laparoscopic procedures



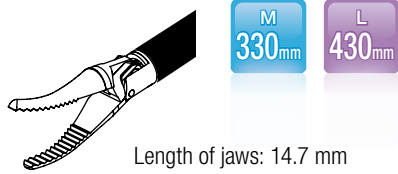
- Fine Maryland forceps:
Due to increased branch length the jaws allow improved overview and handling. Suitable for kidney resection and adrenalectomy



- Straight forceps:
Multipurpose straight dissection forceps for all laparoscopic procedures



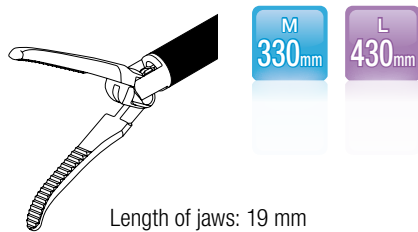
- Tweezers:
For very delicate dissection and coagulation

Maryland Forceps

Length of jaws: 14.7 mm

Components

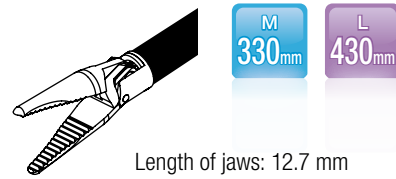
- WA64320C** Jaws "HiQ+", bipolar, 5 x 330 mm, preparation forceps, Maryland, short
- WA64321C** Jaws "HiQ+", bipolar, 5 x 430 mm, dissection forceps, Maryland, long

Fine Maryland Forceps

Length of jaws: 19 mm

Components

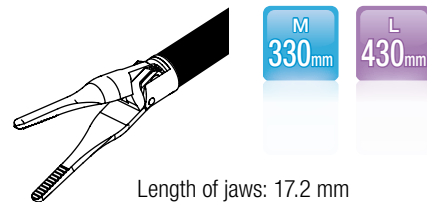
- WA64360C** Jaws "HiQ+", bipolar, 5 x 330 mm, dissection forceps, Maryland
- WA64361C** Jaws "HiQ+", bipolar, 5 x 430 mm, dissection forceps, Maryland

Straight Forceps

Length of jaws: 12.7 mm

Components

- WA64310C** Jaws "HiQ+", bipolar, 5 x 330 mm, preparation forceps, straight
- WA64311C** Jaws "HiQ+", bipolar, 5 x 430 mm, dissection forceps, straight, long

Tweezers

Length of jaws: 17.2 mm

Components

- WA64210C** Jaws "HiQ+", bipolar, 5 x 330 mm, grasping forceps, tweezers
- WA64211C** Jaws "HiQ+", bipolar, 5 x 430 mm, grasping forceps, tweezers, long

HiQ+ Bipolar

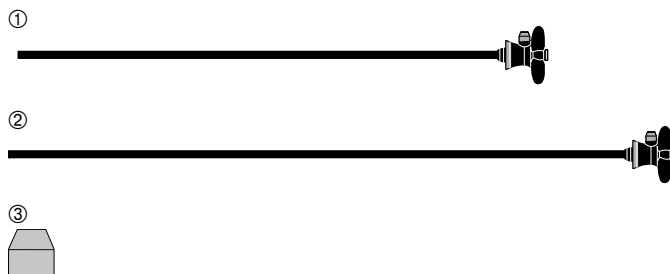
Accessories and Spare Parts

HiQ+ Bipolar Ergo Handle



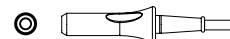
WA60101C Handle "HiQ+", Ergo, bipolar

HiQ+ Bipolar Shaft



- ① **WA60800C** Shaft "HiQ+", bipolar, 5 x 330 mm, isolated
- ② **WA60801C** Shaft "HiQ+", bipolar, 5 x 430 mm, insulated, long
- ③ **A03441A** Spare-button "HiQ+", for shaft, 10 pcs.

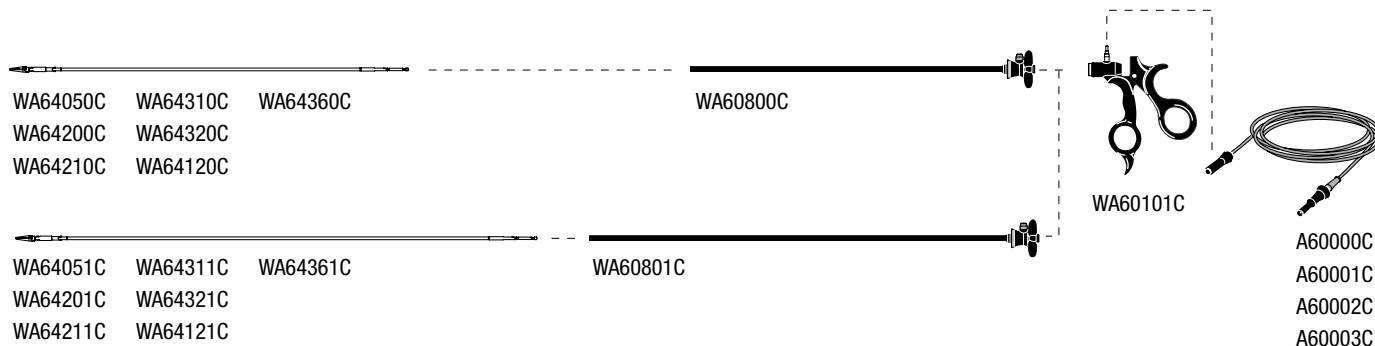
Bipolar HF Cable



- A60003C** HF-cable "HiQ+", bipolar
Compatible HF units:
 - ESG-400
 - ESG-410
 - Erbe VIO¹
 - Valleylab HF units
- A60001C** HF-cable "HiQ+", bipolar
Compatible HF units:
 - ESG-410
 - Erbe International HF units
- A60002C** HF-cable "HiQ+", bipolar
Compatible HF units:
 - Martin
- A60000C** HF-cable "HiQ+", bipolar
Compatible HF units:
 - ESG-400
 - ESG-410
 - HF-300
 - Erbe HF units¹

¹ Depending on individual connector configuration

System Chart



HiQ+

Needle Holders



Baden-Württemberg
International Design Award 2004



GOOD DESIGN
AWARD 2005



Design
Award
Winner
2006



reddot design award
winner 2006



HiQ+ needle holders and knot pushers are a series of instruments designed to satisfy the most exacting requirements when it comes to functionality, ergonomics and up-to-date reprocessing. HiQ+ needle holders are engineered for:

- High grasping strength
- High accuracy to ensure precise and reliable control of the needle
- High durability with hard-metal inlays in the jaws



Exchangeable jaws inserts: The HiQ+ needle holder is available with five interchangeable jaws. The modular design allows for easy assembly, disassembly, and cleaning. All parts are autoclavable.

- Straight needle holder
- Left- and right needle holder
- Dolphin type needle holder
- Assistant needle holder
- Self-alignment needle holder



- The handle of the HiQ+ needle holder has been optimized from an ergonomic perspective. Olympus engineers have worked closely with ergonomics experts to design a handle that will be “an extension of the surgeon's hand”.



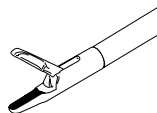
- HiQ+ design knot pusher (see page [405](#))

HiQ+

Needle Holders

(cont.)

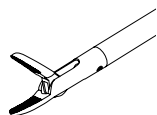
Straight Needle Holders



Components

WA64700A	Jaws "HiQ+", 5 x 330 mm, needle holder, straight
WA64700L	Jaws "HiQ+", 5 x 430 mm, needle holder, straight
WA60120A	Handle "HiQ+", inline A, asymmetric, ratchet
WA60120L	Handle "HiQ+", inline A, long, asymmetric, ratchet

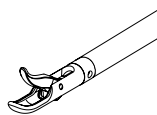
Right-Curved Needle Holders



Components

WA64740A	Jaws "HiQ+", 5 x 330 mm, needle holder, right curved
WA64740L	Jaws "HiQ+", 5 x 430 mm, needle holder, right curved
WA60120A	Handle "HiQ+", inline A, asymmetric, ratchet
WA60120L	Handle "HiQ+", inline A, long, asymmetric, ratchet

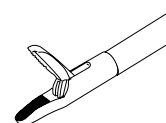
Dolphin Type Needle Holder



Components

WA64730A	Jaws "HiQ+", 5 x 330 mm, needle holder, dolphin type
WA60120A	Handle "HiQ+", inline A, asymmetric, ratchet

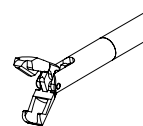
Left-Curved Needle Holders



Components

WA64710A	Jaws "HiQ+", 5 x 330 mm, needle holder, curved
WA64710L	Jaws "HiQ+", 5 x 430 mm, needle holder, curved left
WA60120A	Handle "HiQ+", inline A, asymmetric, ratchet
WA60120L	Handle "HiQ+", inline A, long, asymmetric, ratchet

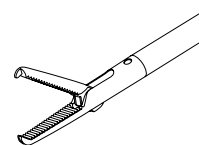
Self-Alignment Needle Holders



Components

WA64720A	Jaws "HiQ+", 5 x 330 mm, needle holder, self-aligning
WA60120A	Handle "HiQ+", inline A, asymmetric, ratchet

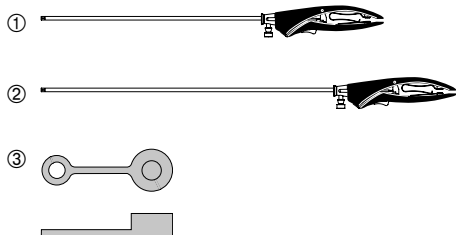
Assistant Needle Holders



Components

WA64750A	Jaws "HiQ+", 5 x 330 mm, assistant needle holder
WA60120A	Handle "HiQ+", inline A, asymmetric, ratchet

HiQ+ Inline A Handles

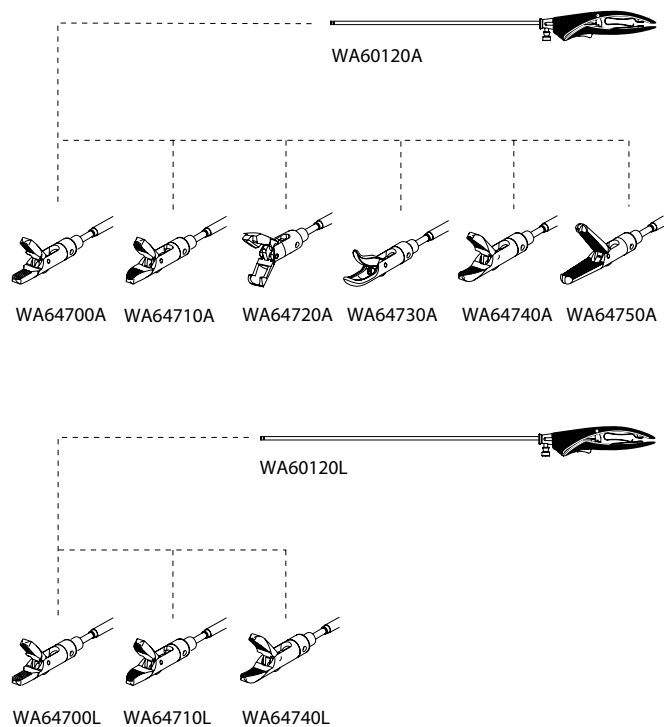


- ① **WA60120A** Handle, with sheath, 330 mm, ratchet

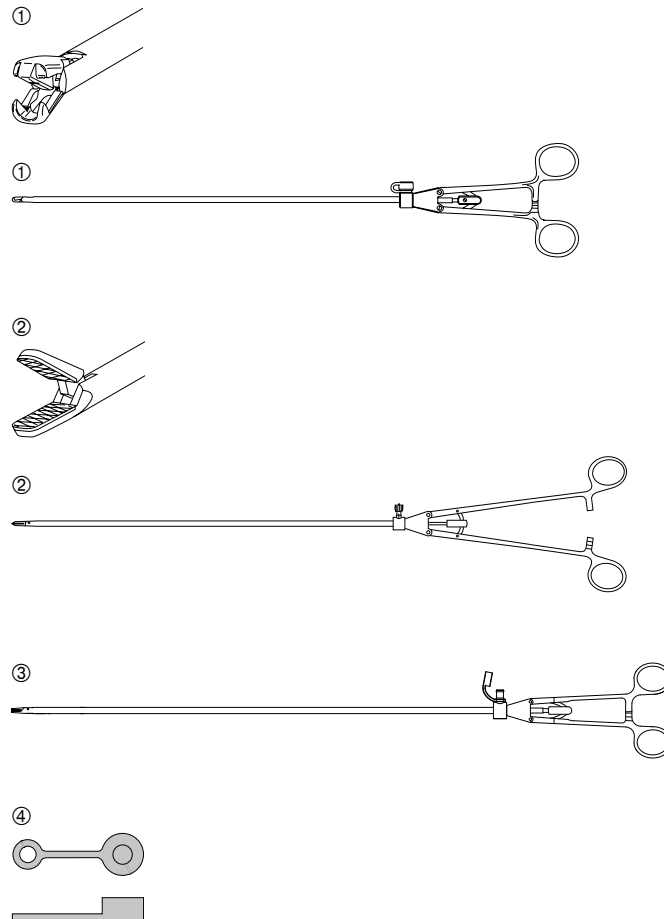
- ② **WA60120L** Handle, with sheath, 430 mm, ratchet

- ③ **A0400** Sealing cap, blue, for Luer-lock, 6 pcs.

System Chart HiQ+ Needle Holders



Standard Needle Holders



- ① **WA56900A** Grasping forceps, needle holder, with self-alignment, 5 x 300 mm, straight

- ② **A5690** Grasping forceps, needle holder, 5 x 300 mm, inline handle

- A5698** Grasping forceps, needle holder, 5 x 300 mm, curved, inline

- ③ **WA56090L** Grasping forceps, needle holder, 5 x 390 mm, inline handle

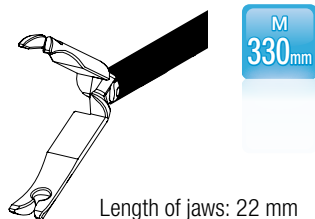
- WA56098L** Grasping forceps, needle holder, 5 x 390 mm, curved, inline

- ④ **A0400** Sealing cap, blue, for Luer-lock, 6 pcs.

HICURA

Suture, Clip Application

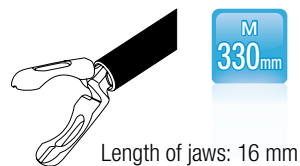
HICURA Knot Pusher



Components

WA69380M Jaws insert "HICURA", 5 x 330, knot pusher

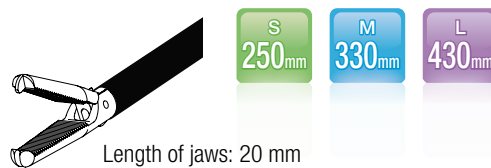
HICURA Roeder Knot Pusher



Components

WA69382M Jaws insert "HICURA", 5 x 330, Roeder

HICURA Assistant Needle Holder



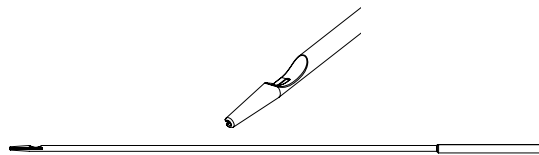
Components

WA69384M Jaws insert "HICURA", 5 x 330, assistant needle holder


WA69384S Jaws insert "HICURA", 5 x 250, assistant needle holder

WA69384L Jaws insert "HICURA", 5 x 430, assistant needle holder

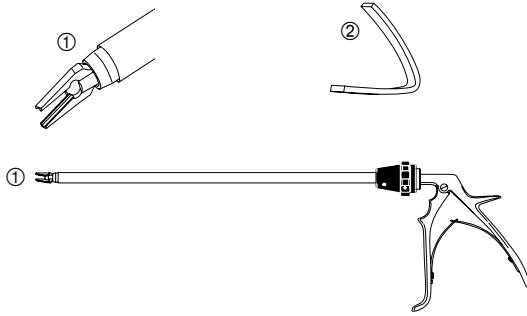
Standard Knot Pusher



WA56903A Knot pusher,
5 x 330 mm

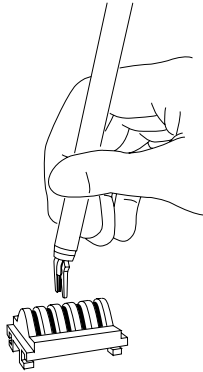
 For accessories and spare parts of HICURA hand instruments, see page 361.

Application of Titanium Clips

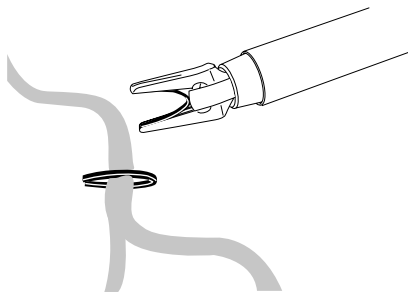


- ① **A56790A** Clip applicator, 10 x 330 mm, for clips medium/large A5635
- Curved
 - Rotatable jaws
 - Can be disassembled for reprocessing.
- ② **A5635** Clip, titanium, medium/large, 18 x 6 pcs.

Use

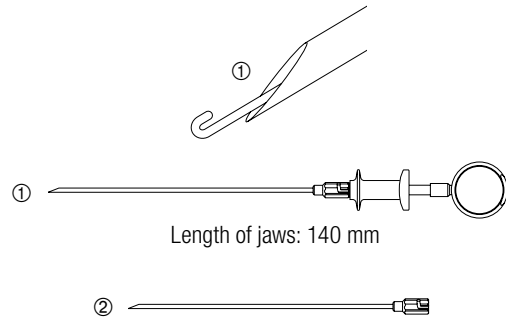


Remove clip from the magazine.



Apply clip.

Fascial Closure



- ① **WA51203A** Needle, for fascial closure
- ② **WA51205A** Spare cannula, for WA51203A

HiQ+

Suction and Irrigation



Surgery



The HiQ+ suction/irrigation system is optimized for streamlined flow throughout every component, from inflow to outflow, thus enabling better passage of immersed blood clots or stones.

The modular system with its range of suction/irrigation tubes offers tailored solutions for a variety of laparoscopic procedures and anatomies.

The HiQ suction/irrigation system combines excellent performance with surgeon-oriented ergonomics and high-end quality.

Customizable system: Olympus offers a wide range of suction/irrigation tubes for its HiQ+ system:

- Diameters of 3, 5 and 10 mm
- Working lengths of 360 and 450 mm
- Multiple tip designs, e.g. for harvesting lost gall bladder stones or aspirating hydrops



Optimized ergonomics – choice of two ergonomically designed handles for differing irrigation needs:

- Active handle with lever-controlled suction/irrigation at your finger tips
- Passive handle for foot switch control in combination with pumps

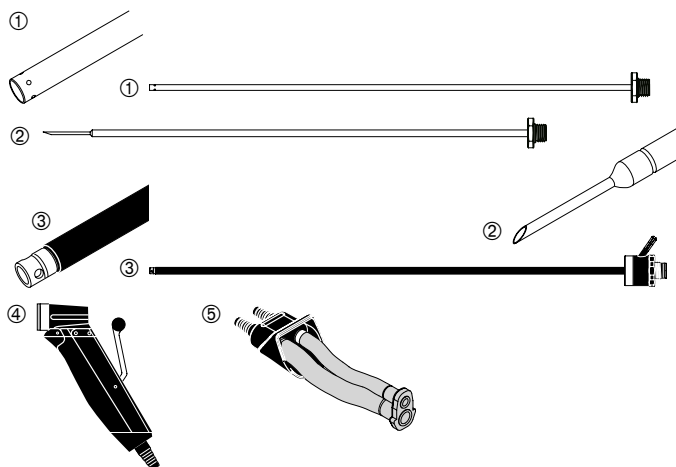


- Simple reprocessing: The HiQ+ suction/irrigation system has been designed to simplify assembly/disassembly and cleaning. Every component is easily detachable and autoclavable.

HiQ+

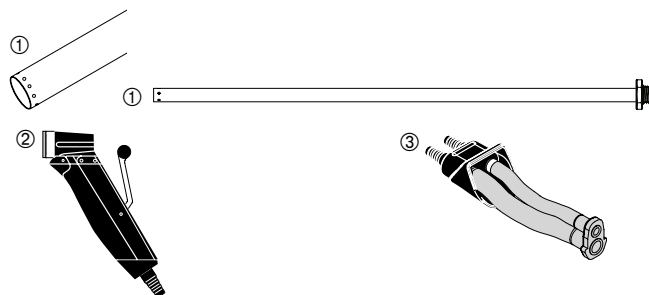
Suction and Irrigation (cont.)

Standard Suction/Irrigation System



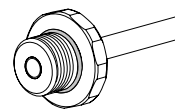
- | | | |
|---|-----------------|--|
| ① | WA51111A | Suction/irrigation tube, 3 x 360 mm, distal holes, for HiQ+ handle |
| | WA51131A | Suction/irrigation tube, 5 x 360 mm, distal holes, for HiQ+ handle |
| | WA51131L | Suction/irrigation tube, 5 x 450 mm, distal holes, for HiQ+ handle |
| ② | WA51132A | Suction/irrigation tube, 5 x 360 mm, for aspiration, for HiQ+ handle |
| ③ | WA51138A | Suction/irrigation tube, 5 x 360 mm, button, unipolar, for HiQ+ handle |
| ④ | WA51172A | Handle "HiQ+" (spare, not shown), for suction/irrigation tube, valve |
| ⑤ | WA51181S | Valve tubing (spare), for HiQ+ handle, suction channel 5 mm, 1 pc. |

Large Diameter Suction/Irrigation System



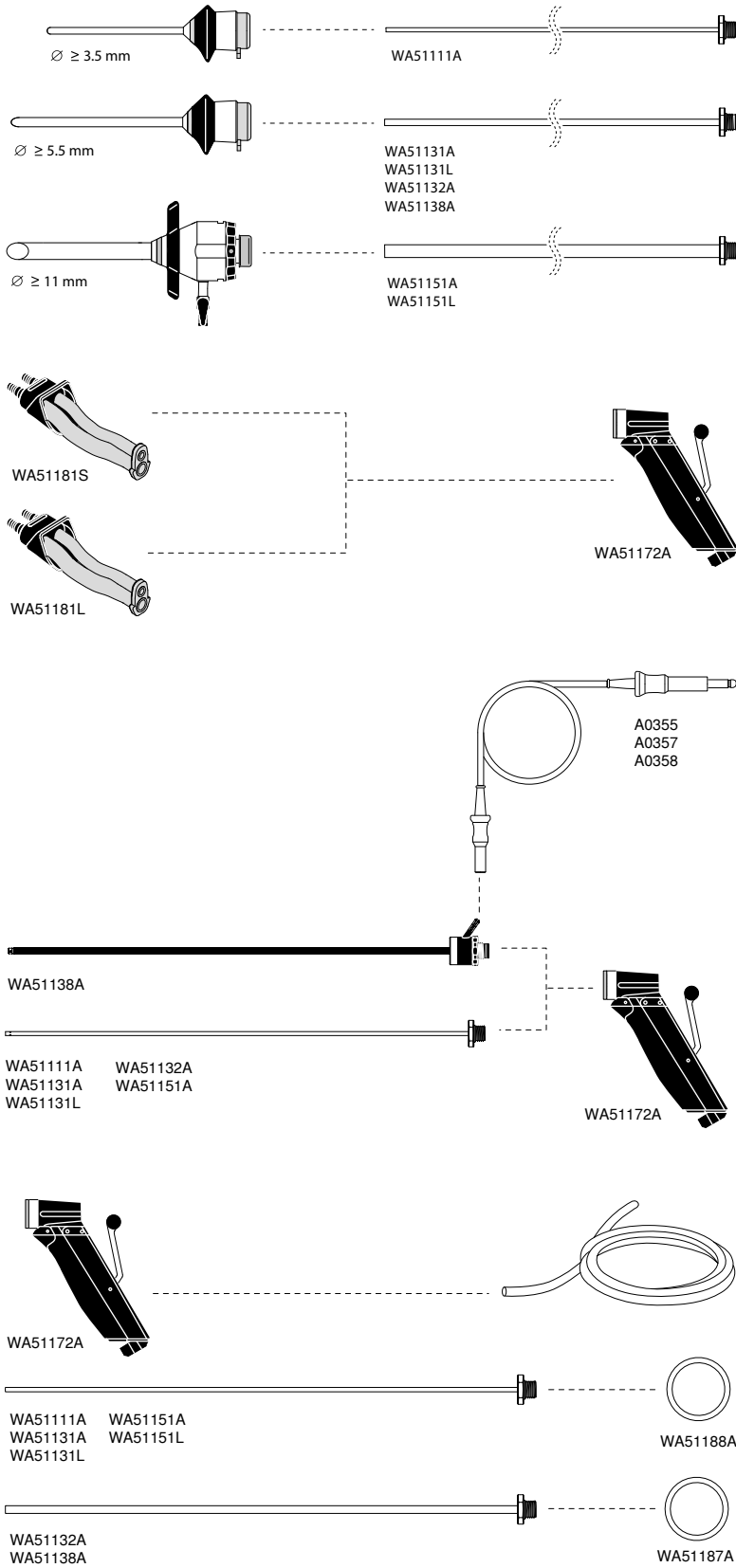
- | | | |
|---|-----------------|--|
| ① | WA51151A | Suction/irrigation tube, distal holes, for HiQ+ handle, 10 x 360 mm |
| | WA51151L | Suction/irrigation tube, distal holes, for HiQ+ handle, 10 x 450 mm |
| ② | WA51172A | Handle "HiQ+" (spare, not shown), for suction/irrigation tube, valve |
| ③ | WA51181L | Valve tubing (spare), for HiQ+ handle, suction channel 8 mm, 1 pc. |

Spare Parts



- | | |
|-----------------|--|
| WA51187A | Sealing ring, for HiQ+ suction/irrigation tube, 10 pcs., small |
| WA51188A | Sealing ring, for HiQ+ suction/irrigation tube, 10 pcs., large |

System Chart

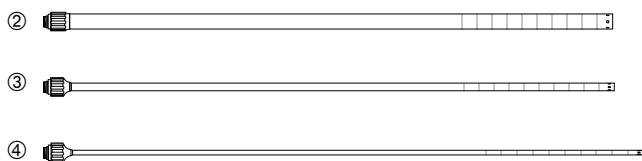


Surgery

Lavage

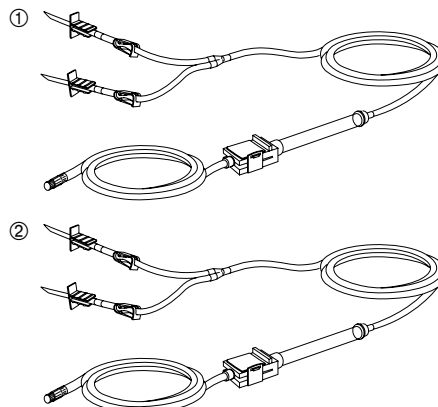
Instruments for Lavage

Modular Suction/Irrigation Instrument



- | | | |
|---|--------------|--|
| ① | A5796 | Handle,
for suction/irrigation tube |
| ② | A5797 | Suction/irrigation tube,
10 mm, for A5796 |
| ③ | A5798 | Suction/irrigation tube,
5 mm, for A5796 |
| ④ | A5799 | Suction/irrigation tube,
3 mm, for A5796 |

Tubings



- | | | |
|---|--------------|---|
| ① | A4054 | Tubing, set, for 2 bags, for single use, 10 pcs.
▪ Sterile |
| ② | A4055 | Tubing, set, for 2 bags, 1 pc.
▪ Non-sterile, reusable |

HiQ+

HF Electrodes



Surgery

**Baden-Württemberg
International Design Award 2004**



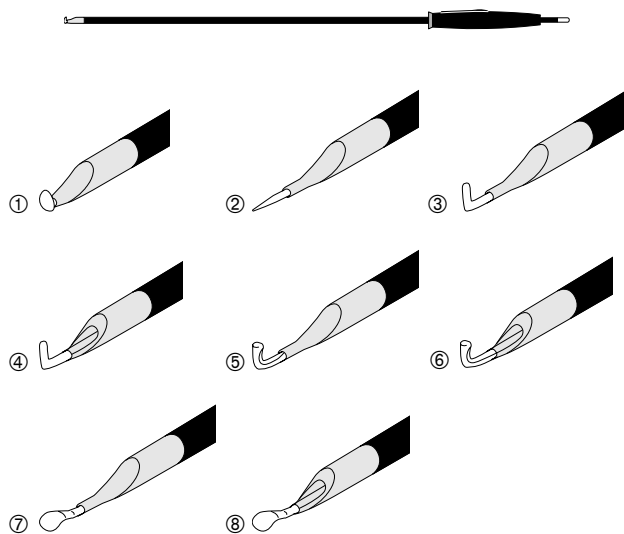
reddot design award
winner 2000



Design
Award
Winner
2000

- Ceramic tip
- With or without inline suction channel
- Ergonomic design
- Cost effective thanks to high durability
- UHI-4/UHI-3 addition for automatic suction

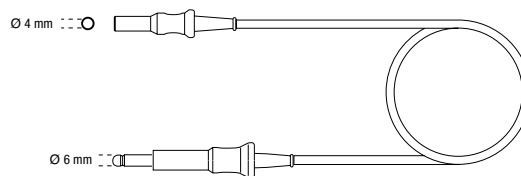
HiQ+ HF Electrodes



①	A6280	HF electrode, button, 5 x 330 mm
②	A6281	HF electrode, needle, 5 x 330 mm
③	A6282	HF electrode, hook, 5 x 330 mm
④	A6292	HF electrode, hook, with suction channel, 5 x 330 mm
⑤	A6283	HF electrode, hook long, 5 x 330 mm
	A6289	HF electrode, hook long, 5 x 400 mm
⑥	A6293	HF electrode, hook long, with suction channel, 5 x 330 mm
	A6299	HF electrode, hook long, with suction channel, 5 x 400 mm
⑦	A6284	HF electrode, spoon, 5 x 330 mm
⑧	A6294	HF electrode, spoon, with suction channel, 5 x 330 mm

With 4 mm HF pin.

HF Cables



A0358 HF cable, monopolar
Compatible HF units:

- ESG-400
- ESG-410
- Valleylab (new)

A0355 HF cable, monopolar
Compatible HF units:

- Valleylab (old)

A0357 HF cable, monopolar
Compatible HF units:

- ESG-400
- ESG 410
- Erbe T series
- Berchtold

Electrosurgical High Frequency Devices

Standard Mono- and Bipolar Energy



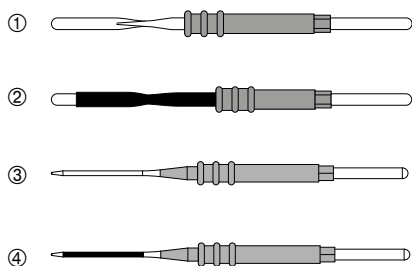
Surgery

The Olympus electro-surgical portfolio offers a wide range of electro-surgical instruments, for laparoscopic and open procedures, including disposable monopolar electrodes, pencils and suction coagulators, reusable bipolar forceps and a number of different accessories. Featuring a lightweight, ergonomic design and flexible cable, the Olympus electro-surgical pencils are preloaded with high quality and economical nonstick (PTFE) or stainless steel blade electrodes. To serve multiple surgical needs, a variety of nonstick and stainless steel electrodes in different lengths and tip styles is available.



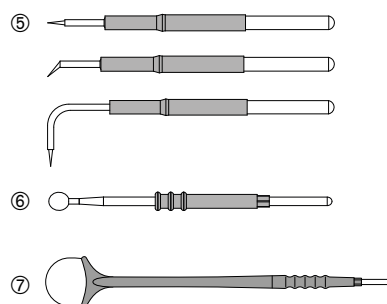
Portfolio compatible to ESG-400, ESG-410 and other standard high frequency generators.

Disposable Monopolar Electrosurgical Electrodes



①	WA98510E	Electrode, Blade, 2.75", coated, 10 pcs./box
	WA98511E	Electrode, Blade, 2.75", non-coated, 10 pcs./box
	WA98530E	Electrode, Blade, 4", coated, 10 pcs./box
	WA98531E	Electrode, Blade, 4", non-coated, 10 pcs./box
	WA98550E	Electrode, Blade, 6", coated, 10 pcs./box
	WA98551E	Electrode, Blade, 6", non-coated, 10 pcs./box
②	WA98520E	Electrode, Blade, 2.75", coated, extended insulation, 10 pcs./box
	WA98521E	Electrode, Blade, 2.75", non-coated, extended insulation, 10 pcs./box
	WA98540E	Electrode, Blade, 4", coated, extended insulation, 10 pcs./box
	WA98541E	Electrode, Blade, 4", non-coated, extended insulation, 10 pcs./box
	WA98560E	Electrode, Blade, 6", coated, extended insulation, 10 pcs./box
	WA98561E	Electrode, Blade, 6", non-coated, extended insulation, 10 pcs./box
③	WA98610E	Electrode, Needle, 2.75", coated, 10 pcs./box
	WA98611E	Electrode, Needle, 2.75", non-coated, 10 pcs./box
	WA98630E	Electrode, Needle, 4", coated, 10 pcs./box
	WA98631E	Electrode, Needle, 4", non-coated, 10 pcs./box
	WA98650E	Electrode, Needle, 6", coated, 10 pcs./box
	WA98651E	Electrode, Needle, 6", non-coated, 10 pcs./box
④	WA98620E	Electrode, Needle, 2.75", coated, extended insulation, 10 pcs./box
	WA98640E	Electrode, Needle, 4", coated, extended insulation, 10 pcs./box
	WA98621E	Electrode, Needle, 2.75", non-coated, extended insulation, 10 pcs./box
	WA98641E	Electrode, Needle, 4", non-coated, extended insulation, 10 pcs./box
	WA98661E	Electrode, Needle, 6", non-coated, extended, 10 pcs./box
	WA98660E	Electrode, Needle, 6", coated, extended insulation, 10 pcs./box

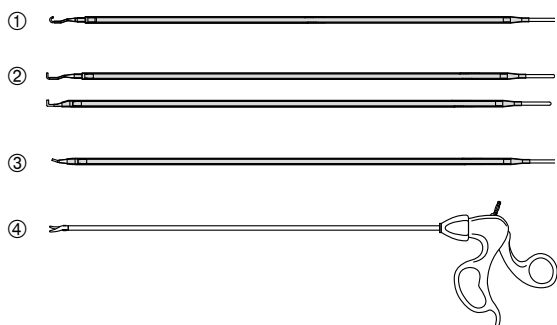
Disposable Monopolar Electrosurgical Electrodes (cont.)



⑤	WA98710E	Electrode, Fine Needle, tungsten, 2", 10 pcs./box, (US only)
	WA98720E	Electrode, Fine Needle, tungsten, 2", 45 degree, 10 pcs./box, (US only)
	WA98730E	Electrode, Fine Needle, tungsten, 2.5", 10 pcs./box, (US only)
	WA98740E	Electrode, Fine Needle, tungsten, 2.5", 45 degree, 10 pcs./box, (US only)
	WA98750E	Electrode, Fine Needle, tungsten, 2.5", 90 degree, 10 pcs./box, (US only)
	WA98760E	Electrode, Fine Needle, tungsten, 4", 10 pcs./box, (US only)
	WA98770E	Electrode, Fine Needle, tungsten, 6", 10 pcs./box, (US only)
⑥	WA98830E	Electrode, Ball, 2", 5 mm, coated, 10 pcs./box
	WA98840E	Electrode, Ball, 2", 5 mm, non-coated, 10 pcs./box
	WA98810E	Electrode, Ball, 5", 5 mm, coated, 10 pcs./box
	WA98820E	Electrode, Ball, 5", 5 mm, non-coated, 10 pcs./box
⑦	WA98950E	Electrode, Loop, 10x10, 10 pcs./box
	WA98951E	Electrode, Loop, 15x10, 10 pcs./box
	WA98952E	Electrode, Loop, 20x10, 10 pcs./box
	WA98953E	Electrode, Loop, 20x15, 10 pcs./box

Sterile

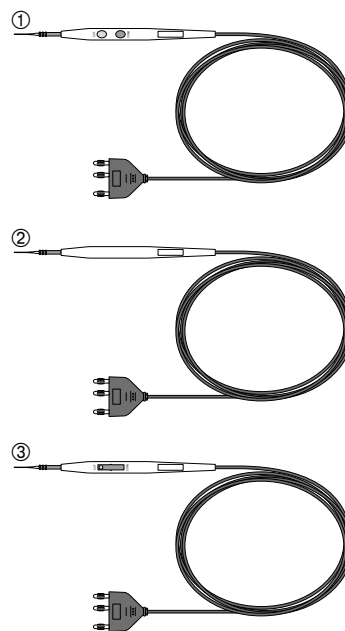
Disposable Laparoscopic Electrosurgical Devices



①	WA98910E	Electrode, Lap, J Hook, Wire, 33 cm, Disposable, coated, 10 pcs./box (US only)
	WA98911E	Electrode, Lap, J Hook, Wire, 33 cm, Disposable, non-coated, 10 pcs./box (US only)
	WA98915E	Electrode, Lap, J Hook, Wire, 45 cm, Disposable, coated, 10 pcs./box (US only)
	WA98916E	Electrode, Lap, J Hook, Wire, 45 cm, Disposable, non-coated, 10 pcs./box (US only)
②	WA98920E	Electrode, Lap, L Hook, Flat, 33 cm, Disposable, coated, 10 pcs./box (US only)
	WA98921E	Electrode, Lap, L Hook, Flat, 33 cm, Disposable, non-coated, 10 pcs./box (US only)
	WA98925E	Electrode, Lap, L Hook, Flat, 45 cm, Disposable, coated, 10 pcs./box (US only)
	WA98926E	Electrode, Lap, L Hook, Flat, 45 cm, Disposable, non-coated, 10 pcs./box (US only)
	WA98930E	Electrode, Lap, L Hook, Wire, 33 cm, Disposable, coated, 10 pcs./box (US only)
	WA98931E	Electrode, Lap, L Hook, Wire, 33 cm, Disposable, non-coated, 10 pcs./box (US only)
	WA98935E	Electrode, Lap, L Hook, Wire, 45 cm, Disposable, coated, 10 pcs./box (US only)
	WA98936E	Electrode, Lap, L Hook, Wire, 45 cm, Disposable, non-coated, 10 pcs./box (US only)
③	WA98940E	Electrode, Lap, Curved Spatula, 33 cm, Disposable, coated, 10 pcs./box (US only)
	WA98941E	Electrode, Lap, Curved Spatula, 33 cm, Disposable, non-coated, 10 pcs./box (US only)
	WA98945E	Electrode, Lap, Curved Spatula, 45 cm, Disposable, coated, 10 pcs./box (US only)
	WA98946E	Electrode, Lap, Curved Spatula, 45 cm, Disposable, non-coated, 10 pcs./box (US only)
④	WA98600A	LAP. Curved Scissors High Insulation, 33 cm, 1 pcs./box (US only)
	WA98700A	LAP. Curved Scissors High Insulation, 45 cm, 1 pcs./box (US only)

Sterile

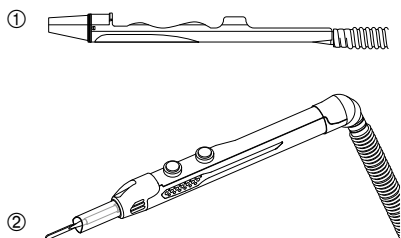
Disposable Monopolar Electrosurgical Pencils



①	WA98210B	Electrosurgical pencil, 3 m cable, push button with coated blade, 50 pcs./box
	WA98211B	Electrosurgical pencil, 3 m cable, push button with non-coated blade, 50 pcs./box
	WA98220B	Electrosurgical pencil, 3 m cable, push button with coated blade, holster, 30 pcs./box
	WA98221B	Electrosurgical pencil, 3 m cable, push button with non-coated blade, holster, 30 pcs./box
	WA98230B	Electrosurgical pencil, 3 m cable, push button with coated high insulation blade, holster, 30 pcs./box
	WA98231B	Electrosurgical pencil, 4.5 m cable, push button with coated blade, 50 pcs./box
②	WA98210F	Electrosurgical pencil, 3 m cable, foot control with coated blade, 50 pcs./box
	WA98211F	Electrosurgical pencil, 3 m cable, foot control with non-coated blade, 50 pcs./box
	WA98220F	Electrosurgical pencil, 3 m cable, foot control with coated blade, holster, 30 pcs./box
	WA98221F	Electrosurgical pencil, 3 m cable, foot control with non-coated blade, holster, 30 pcs./box
③	WA98210R	Electrosurgical pencil, 3 m cable, rocker switch with coated blade, 50 pcs./box
	WA98211R	Electrosurgical pencil, 3 m cable, rocker switch with non-coated blade, 50 pcs./box
	WA98220R	Electrosurgical pencil, 3 m cable, rocker switch with coated blade, holster, 30 pcs./box
	WA98221R	Electrosurgical pencil, 3 m cable, rocker switch with non-coated blade, holster, 30 pcs./box
	WA98230R	Electrosurgical pencil, 3 m cable, rocker switch with coated high insulation blade, holster, 30 pcs./box
	WA98231R	Electrosurgical pencil, 4.5 m cable, rocker switch with coated blade, 50 pcs./box

Sterile

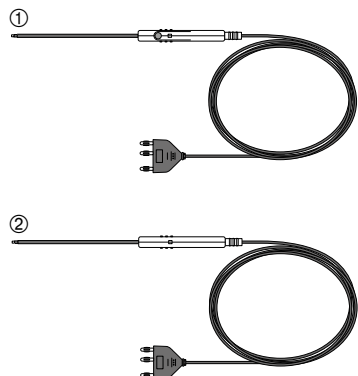
Disposable Smoke Evacuation



- ① **WA98192S** OR-VAC monopolar electrosurgical pencil adapter, 22 mm tubing, 20pcs./box
- ② **WA98191S** Integrated Smoke Evacuation Pencil, telescopic, with coated blade electrode, 22 mm tubing, push button with coated blade, 20pcs./box

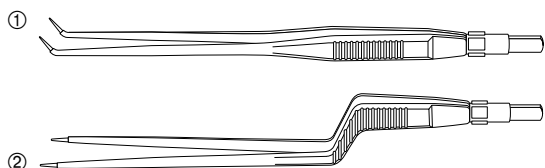
For OR-VAC, see page 435.

Disposable Monopolar Suction Coagulators



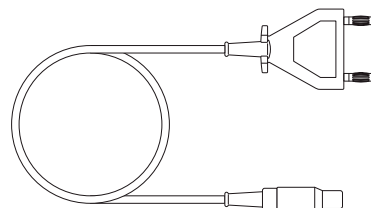
- ① **WA98410C** Suction coagulator, 8 Fr., hand switch, 15 pcs./box
- WA98420C** Suction coagulator, 10 Fr., hand switch, 15 pcs./box
- WA98430C** Suction coagulator, 12 Fr., hand switch, 15 pcs./box
- ② **WA98411C** Suction coagulator, 8 Fr. foot control, 15 pcs./box
- WA98421C** Suction coagulator, 10 Fr. foot control, 15 pcs./box
- WA98431C** Suction coagulator, 12 Fr. foot control, 15 pcs./box

Reusable Bipolar Forceps



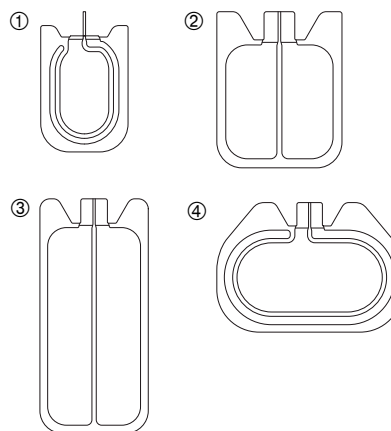
- ① **WB990038** Forceps 180 mm angled shaft, flexible blunt 2.0 mm, insul. flat-plug
- ② **WB990041** Bipolar Forceps 200 mm bayonet straight blunt 1.0 mm, insul. flat-plug

Bipolar Cable

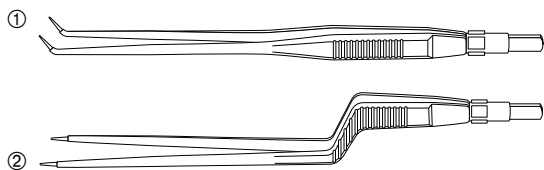


- WB990037** Bipolar cable 3 m, flat-plug, squared generator end: Valleylab-plug, reusable, non-sterile
- WA98500A** Bipolar forceps cable, fixed lead, sterile, disposable

Disposable Neutral Electrodes

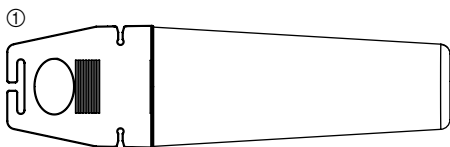


- ① **WA99512C** Neutral electrode, for newborns, with cable, 15 pcs./box
- ② **WA99513A** Neutral electrode, for children, without cable, 100 pcs./box
- WA99513C** Neutral electrode, for children, with cable, 15 pcs./box
- ③ **WA99514A** Neutral electrode, for adults, without cable, 100 pcs./box
- WA99514C** Neutral electrode, for adults, with cable, 15 pcs./box
- ④ **WA99516A** Neutral electrode, universal size, without cable, 100 pcs./box
- WA99516C** Neutral electrode, universal size, with cable, 15 pcs./box
- WA99510A** Cable, for neutral electrode, suitable for manual and automatic reprocessing and autoclaving, reuseable, 4.5 m, 1 pc./box

Reusable Bipolar Electrosurgical Devices

① **WB990038** Bipolar forceps angled, 180 mm, 1 pc./box

② **WB990041** Bipolar forceps bayonet, 200 mm, 1 pc./box

Disposable Accessories

① **WA98300A** Holster, non-sterile, 12 pcs./box

WA98200A Tip cleaner, 48 x 48 mm, 50 pcs./box (not shown)

☑ For ESG-400, see page 547.

☑ For ESG-410, see page 549.

☑ For ESG-300, see page 541.

☑ For Energy Cart TC-E410, see page 557.

Equipment for Surgery

Insufflation	423
UHI-4 45l High Flow Insufflation Unit	423
UCR Endoscopic CO2 Regulation Unit	425
Accessories for Insufflation	427
LP100 Laparoscopic Pump	429
KV-6 Suction Pump	431
OR-VAC Surgical Smoke Evacuator	435

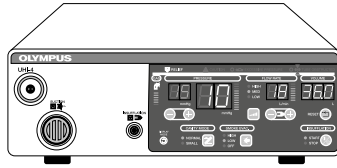


UHI-4

45l High Flow Insufflation Unit



- The UHI-4 offers an increased maximum flow rate of 45l per minute. Real time monitoring of the pressure, flow rate and volume status.
- An automatic smoke evacuation feature is enabled on the UHI-4 when it is coupled with an energy platform. In order to reduce the amount of CO₂ used during surgery, the UHI-4 allows for the smoke evacuation to be toggled between a High and Low function.
- With the new CO₂ switch-over valve accessory, the surgeon can freely switch CO₂ tanks without interrupting long procedures.
- The newly developed small cavity mode allows for safer insufflation of cavities smaller than the abdomen.

Insufflator UHI-4

N3829660 Insufflator "UHI-4"

Delivery includes:

Insufflator, power cable, suction tubing set MAJ-591, insufflation tubing set MAJ-590, nut cover (For EU, Australian and New Zealand market)

Technical Data

Power supply	
Voltage.....	100 – 240 V
Frequency	50/60 Hz
Power consumption	110 VA
Size	
Dimensions (incl. projecting parts)	width 375 mm
	height 132 mm
	depth 380 mm
Dimensions (without projecting parts)	width 370 mm
	height 120 mm
	depth 330 mm
Weight.....	9.3 kg
Safety	
Protection class acc. to IEC 60601-1.....	class I, type CF
Directive 93/42/EEC	class IIa
Gas Supply	
Applicable gas.....	CO ₂ for medical use
Maximum supply pressure rating	16.2 MPa
Supply pressure indications (5 steps)	1: 0.1 – 1.4 MPa
	2: 1.5 – 2.4 MPa
	3: 2.5 – 3.4 MPa
	4: 3.5 – 4.4 MPa
	5: < 4.5 MPa
Flow rate settings (NORMAL cavity mode)	
	HIGH: 20 – 45 l/min
	MED: 1.1 – 1.9 l/min, 2 – 19 l/min
	LOW: 0.1 – 1.0 l/min
Flow rate settings (SMALL cavity mode)	
	HIGH: 6 – 10 l/min
	MED: 1.1 – 1.9 l/min, 2 – 5 l/min
	LOW: 0.1 – 1.0 l/min
Ambient conditions	
Operation	temperature 10 – 40 °C
	relative humidity 30 – 85 %
	atmospheric pressure 700 – 1060 hPa
Transport and Storage	temperature -25 – 70 °C
	relative humidity 10 – 90 %
	atmospheric pressure 700 – 1060 hPa

 For tubings and adapters, see page [426](#) and [427](#).

UCR

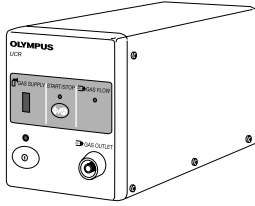
Endoscopic CO₂ Regulation Unit



Carbon dioxide is absorbed 150 times faster than air by the human body. This allows for parallel laparoscopic and endoscopic procedures as the bowel distension quickly disappears.

- For Intra-luminal CO₂ Insufflation with flexible endoscopes
- Easy set-up
- One-touch control

Endoscopic CO₂ Regulation Unit



N3493250 Regulation unit "UCR",
100 – 240 V

Technical Data

Power supply	
Voltage.....	100 – 240 V ~
Frequency.....	50/60 Hz
Power consumption.....	40 W
Size	
Dimensions.....	125 (W) x 150 (H) x 300 (D) mm
Weight.....	4.9 kg
Classification	
Protection against electric shock.....	class 1, type BF

Delivery includes:

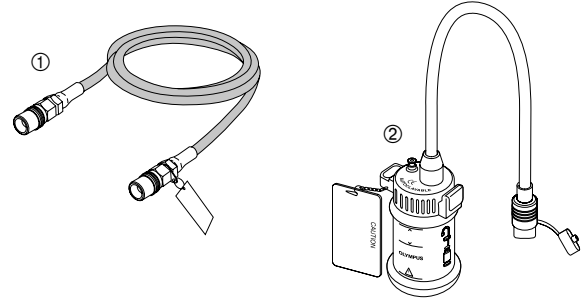
Unit, power cord

Compatible Endoscopes

All Olympus flexible gastrointestinal endoscopes.

For gas cylinder tubings and central gas pipeline adapters, see page 428.

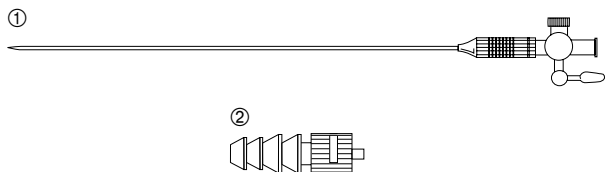
Gas Supply Tubings



- | | | |
|---|-----------------|---------------------------------------|
| ① | N2654500 | Tubing,
"MAJ-1741", standard flow |
| | N2654600 | Tubing,
"MAJ-1742", low flow |
| | N3493330 | Tubing,
"MAJ-1816", extra low flow |
| ② | N6157650 | Water container "MAJ-902" |

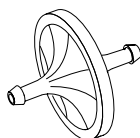
Accessories for Insufflation

Veress-Needles and Accessories



- ① **A5150.1** Needle, according to Veress, 150 mm
- 05151.1** Needle, according to Veress, 120 mm
- ② **00103** Adapter, male Luer-lock and x-mas tree

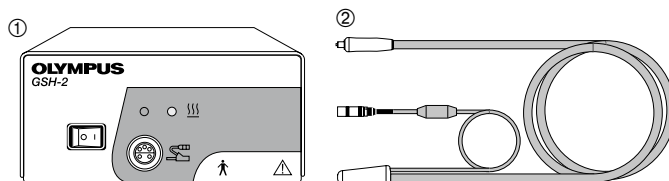
CO₂ Filter



- A5663*** Filter, sterile, single use, for insufflation, large, 10 pcs.

For sterile filtration of the insufflation gas. Prevents possible contamination of the insufflation unit caused by backflow of body fluids.

Gas Preheater

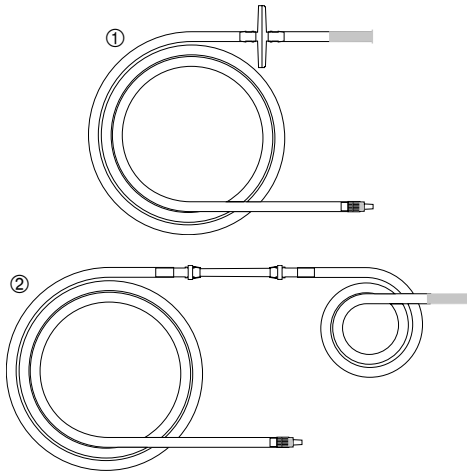


- ① **WA58670A*** Gas preheater "GSH-2", 230 V, with heat exchanger
Delivery includes: Gas preheater, power cable, heat exchanger, adapter, 2 silicone tubings
- ② **WA58671A*** Heat exchanger "WISAP 7642HS", for WA58670A, autoclavable

Technical Data

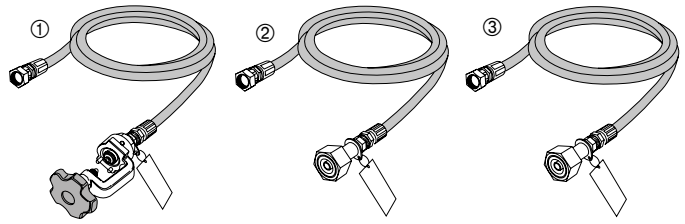
Power supply.....	Voltage 230 V ~
Frequency	50/60 Hz
Power consumption	55 W
Size	
Dimensions	150 (W) x 80 (H) x 170 (D) mm
Weight.....	2.2 kg
Classification	
Protection against electric shock class 1, type B	

- Provides constant body temperature under different flow conditions.
- The gas is heated over the complete heat exchanging tube length.
- Autoclavable heat exchanger for very low costs per procedure. Compatible to most available insufflators.

Insufflation Tubings


- ① **WA95005A*** Tubing, with filter, sterile, single use, for insufflation, 20 pcs.

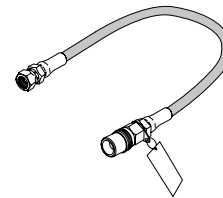
- ② **WA95007A*** Tubing, sterile, single use, for UHI smoke evacuation, 20 pcs.

Gas Cylinder Tubings


- ① **A90121A** Tubing "MAJ-1080", high pressure, for PIN gas cylinders

- ② **A90122A** Tubing "MAJ-1081", high pressure, for DIN gas cylinders

- ③ **A90123A** Tubing "MAJ-1082", high pressure, for ISO gas cylinders

Adapter for Central Gas Pipeline


- A90124A** Adapter, for central gas wall supply, "MAJ-1084", NIST connector

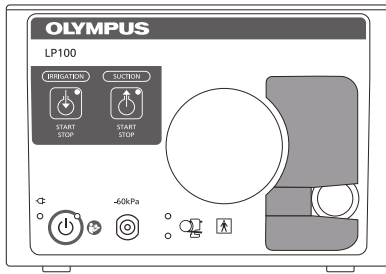
- on request** Adapter, for central gas wall supply, "MAJ-1085", DISS connector

LP100

Laparoscopic Pump



Laparoscopic Pump

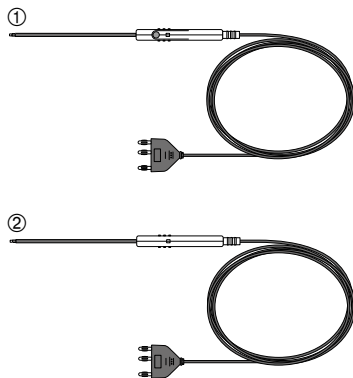


WA58850A Laparoscopic Pump "LP100"

Technical Data

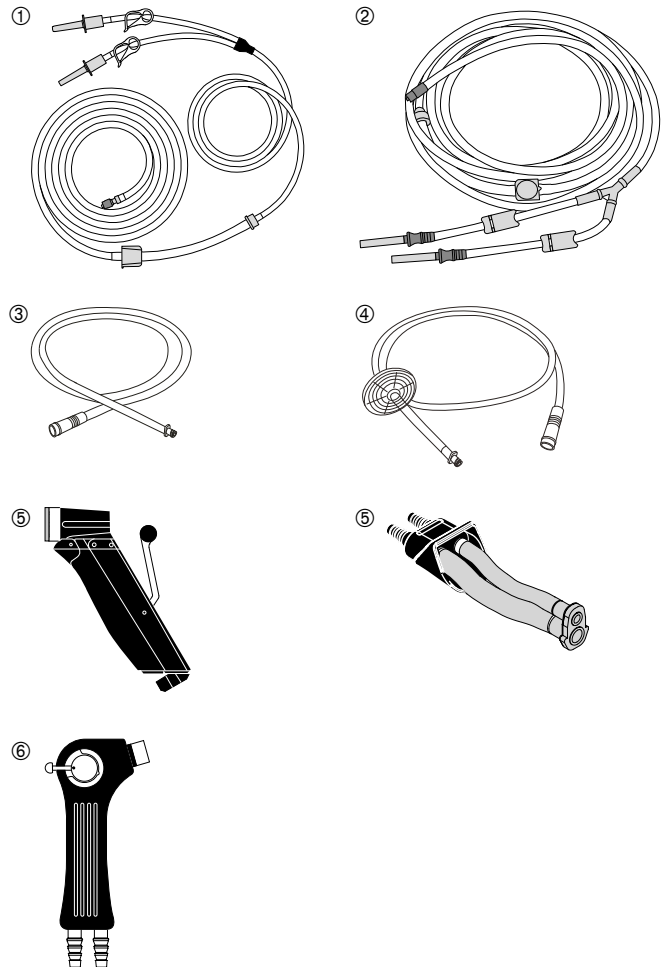
Mains voltage range	AC 100-240 V
Supply frequency range	50 / 60 Hz
Protection class	IP 41
Classification	Ila
Max. sound level	< 80 dB (a)
Max. negative suction pressure	-60 kPa
Max. pump pressure	450 mmHg
Max. irrigation performance	2 l / min
Accuracy flow	± 10 %
Dimensions (w x h x d)	210 x 148 x 260 mm
Weight	3.7 kg

Disposable Monopolar Suction Coagulators



- | | | |
|---|-----------------|--|
| ① | WA98410C | Suction coagulator, 8 Fr., hand switch, 15 pcs./box |
| | WA98420C | Suction coagulator, 10 Fr., hand switch, 15 pcs./box |
| | WA98430C | Suction coagulator, 12 Fr., hand switch, 15 pcs./box |
| ② | WA98411C | Suction coagulator, 8 Fr. foot control, 15 pcs./box |
| | WA98421C | Suction coagulator, 10 Fr. foot control, 15 pcs./box |
| | WA98431C | Suction coagulator, 12 Fr. foot control, 15 pcs./box |

Accessories



- | | | |
|---|-----------------|--|
| ① | WA58810A | Tube set for irrigation, single-use, DEHP free, with RFID technology |
| ② | WA58820A | Tube set for irrigation, reusable, DEHP free, with RFID technology |
| ③ | WA58830A | Tube set for suction, single-use, DEHP free |
| ④ | WA58840A | Tube set for vacuum incl. filter, 30-day-use |
| ⑤ | WA51172A | Handle "HiQ+" (spare), for suction/irrigation tube, valve |
| | WA51181S | Valve tubing (spare), for HIQ+ handle, suction channel 5 mm, 1 pc. |
| ⑥ | A5796 | Handle, for suction / Irrigation tube |

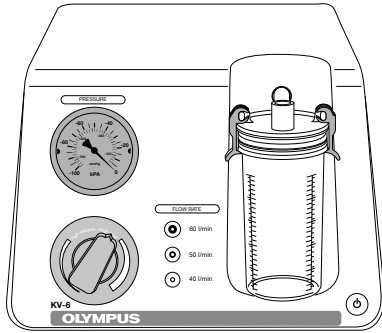
KV-6

Suction Pump



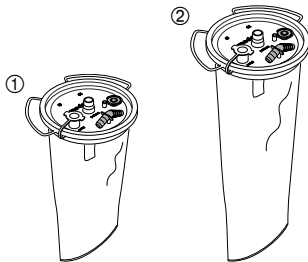
The KV-6 Suction Pump is designed for endoscopic aspiration and for non-endoscopy applications. The unique flow change buttons allow a fast vacuum build-up with a single touch. It has a 'whisper mode' for quiet operation and 'turbo mode' for faster suction. The pump connects to an extensive fluid collection system.

Suction Pump



K10026146 KV-6 Suction Pump

Disposable Liners



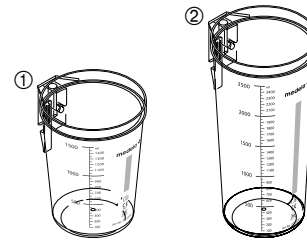
① **K10021894** Disposable liner
1.5 Litre
40 pack

K10021895 Disposable liner
1.5 Litre
30 pack

② **K10021897** Disposable liner
2.5 Litre
40 pack

K10021898 Disposable liner
2.5 Litre
30 pack

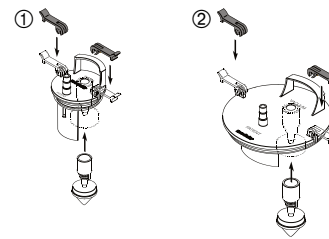
Jars for Liners



① **K10021893** Jar for liners
1.5 Litre
1 pack

② **K10021896** Jar for liners
2.5 Litre
1 pack

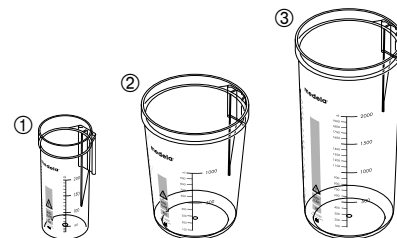
Reusable Lids



① **K10026127** Reusable lid
0.25 Litre
1 pack

② **K7503760** Reusable lid
1 & 2 Litre
1 pack

Reusable Jars



① **K10026128** Reusable jar
0.25 Litre
1 pack

② **K7503762** Reusable jar
1 Litre
1 pack

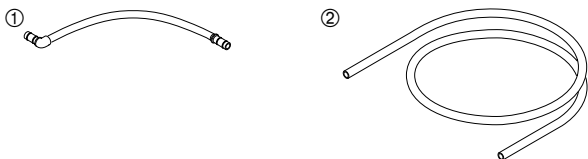
③ **K7503763** Reusable jar
2 Litre
1 pack

KV-6

Suction Pump

(cont.)

Suction Tubing



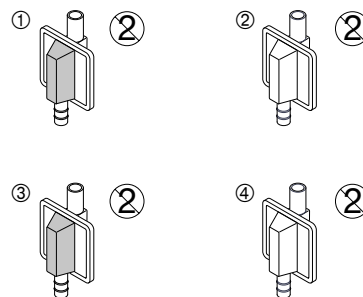
- ① **K10026130** Suction tubing with 2 coupling pieces, 1 x 90° (7 x 12 mm) 60 cm 1 pack
- ② **K10026804** Suction tubing with 2 coupling pieces (7 x 12 mm) 60 cm 1 pack

Patient Connecting Tubing



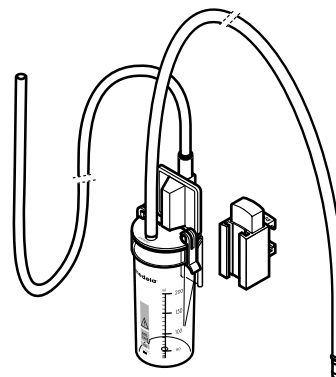
- K7505195** Patient connecting tubing "MAJ-103" 5 pack
- K7503432** Patient connecting tubing "MAJ-103" 50 pack

Filters

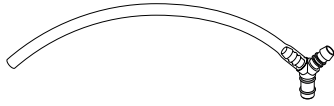


- ① **K10027321** Disposable bacteria / odour filter 10 pack
- ② **K10027322** Disposable bacteria filter 10 pack
- ③ **K10036997** Disposable viral / odour filter 10 pack
- ④ **K10036992** Disposable viral filter 10 pack

Safety Set & Tube

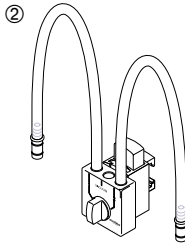


- K10026127** Safety set & tube 1 pack

Disposable Collection System


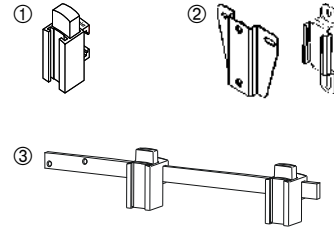
K10021885 Disposable collection system "MAJ-1673"
100 pack

K10021188 Disposable collection system "MAJ-1673"
10 Pack

Disposable / Reusable Collection System


① **K10021878** Disposable / reusable collection system "MAJ-1672"
1 pack (not shown)

② **K10021882** Disposable / reusable collection system "MAJ-1674"
1 pack

Clamp Holder


① **K10002819*** Clamp holder "MAJ-191"
1 pack

② **K7503556*** Clamp holder "WM-60 / D-60"
1 pack

③ **K10021793*** Clamp holder "MAJ-1659"
1 pack

K10001115* Clamp holder "MAJ-190"
1 pack

④ **K10028139 **** Suction jar holder "MAJ-2158"
1 pack (not shown)

* for use with WM-NP2

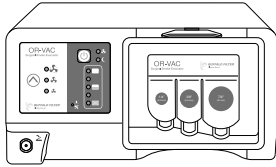
** for use with WM-NP3

OR-VAC

Surgical Smoke Evacuator



- Four layers of ULPA filtration with up to 35 hours* of filter life *(at low suction mode)
- Three flow settings with noise level at max. 55.0 dB A
- 3-port filter provides versatility in accessory setup without adapters
- Automatic tracking of filter life and RFID technology
- Automatic activation when electrosurgical devices are used
- Lightweight and compact design simplifies portability, storage and easy placement in the OR

OR-VAC Smoke Evacuator


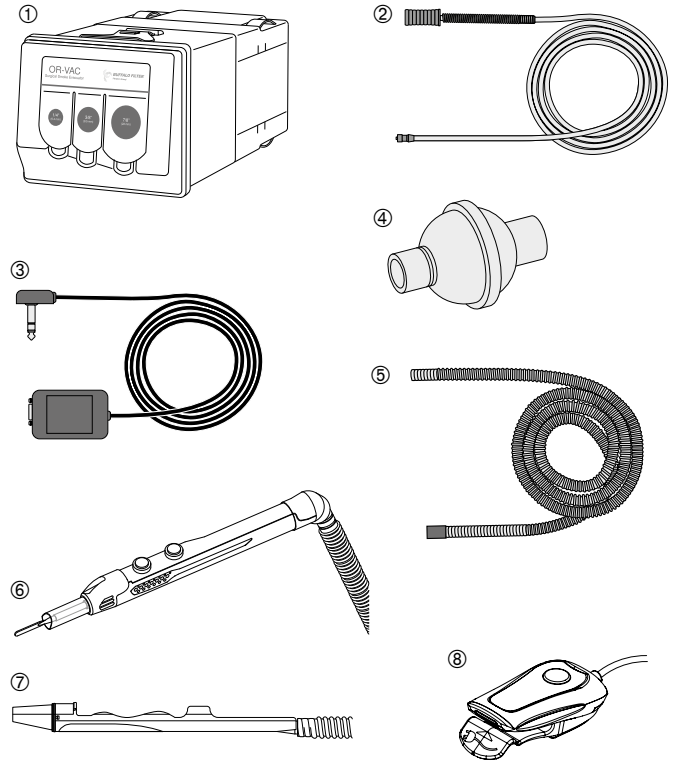
WA98100A	OR-VAC Surgical Smoke Plume Evacuator, 100/120 V
WA98110A	OR-VAC Surgical Smoke Plume Evacuator, 220/240 V
WA98115A	OR-VAC Surgical Smoke Plume Evacuator, 220/240 V, with exhaust capture port

Delivery includes:

1x Main filter (WA98120A),
OR-VAC Adapter for Automatic Activation (WA98140A)

Technical Data

Specifications	
Dimensions	15.2 (H) × 27.9 (W) × 39.4 (D) cm
Weight.....	5.0 kg
Noise Level.....	55.0 dB A (max.)
Flow Settings	
Standard Tube ID	
22 mm	708 Liters per Minute
9.5 mm	130 Liters per Minute
6.4 mm	57 Liters per Minute

Additional components


①	WA98120A	OR-VAC Filter, 2 pcs./box
②	WA98130A	OR-VAC Laparoscopic Smoke Evacuation Tube, 12 pcs./box
③	WA98140A	OR-VAC Adapter for Automatic Activation
④	WA98150A	OR-VAC Fluid Trap, 20 pcs./box
⑤	WA98160A	OR-VAC Open Smoke Evacuation Tube, 24 pcs./box
⑥	WA98191S	Integrated Smoke Evacuation Pencil, telescopic, with coated blade electrode
⑦	WA98192S	OR-VAC Electrosurgical Pencil Adapter
⑧	WB990271	OR-VAC ACT-Detect Automatic Activation Device
	WA98170A	Power Cord UK (not shown)
	WA98180A	Power Cord Australia (not shown)
	N3647400	Communication cable, length 0.7 m (not shown)
	N3647600	Communication cable, length 1.8 m (not shown)
	N3809430	Communication cable, length 10 m (not shown)

For laparoscopic HF electrode with suction channel, see page 414.