

OLYMPUS[®]

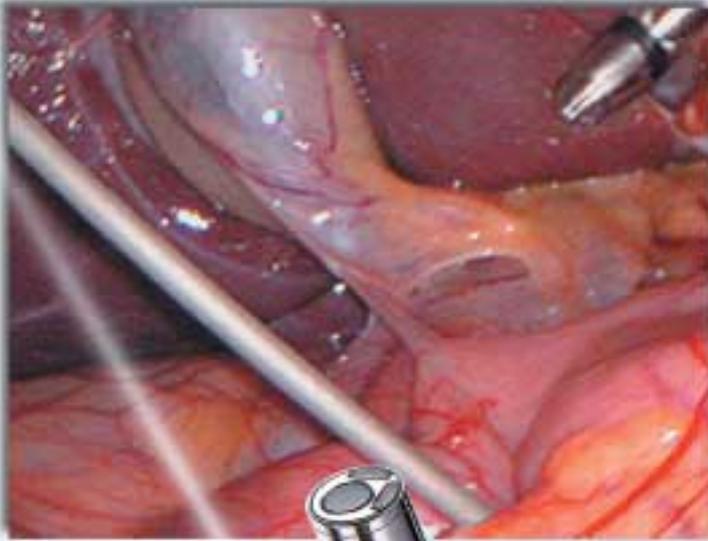
Your Vision, Our Future

VISERA LAPARO-THORACO VIDEOSCOPE

ENDO-EYE

VISERA

The EYE Inside — Chip-on-the-Tip



Chip-on-the-Tip

By leveraging the power of our cutting-edge opto-digital technology, Olympus is constantly redefining the standards of high-quality imaging. With the introduction of these revolutionary new surgical videoscopes, we are pushing those standards to an even higher level.



The key to the remarkable performance of these videoscopes lies in a CCD built into the scope tip combined with powerful optics designed to maximize performance and image quality. Together, these exclusive technologies bring you crisp, natural images with a deep depth of field that eliminates bothersome focusing. Moreover, the all-in-one design provides you with superb control and easy handling—something that only a manufacturer dedicated to enhancing operational efficiency can make possible. To reduce operating expenses, full autoclavability is assured*. With its remarkable performance and superior handling, ENDOEYE lets physicians focus on their patients instead of their equipment.

*A500**A models



What is ENDOEYE?

ENDO EYE is the brand name of the LTF TYPE VP/V3 and A500**A VISERA Laparo-Thoraco Videoscopes

Chip-on-the-Tip

EYE Inside Technology

LTF-VP/V3 A500**A

The CCD used in ENDOEYE is a simultaneous-multicolor type that features color-consistent moiré-free imaging. A deep depth of field eliminates the need for inconvenient intra-operative focusing.



Deep 15-50mm depth of field eliminates focusing.



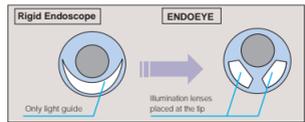
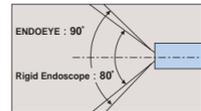
Chip-on-the-Tip—Specialized for TV Observation

The optics of camera heads designed for use in combination with a variety of endoscopes in different fields are optimized for balanced overall performance. With ENDOEYE, on the other hand, the chip-on-the-tip design and customized lenses were adopted for use primarily in laparoscopic and thoracoscopic TV observation. The chip-on-the-tip design, which requires fewer lenses to transmit light to the CCD, has numerous advantages.

Advantages of the Chip-on-the-Tip Design

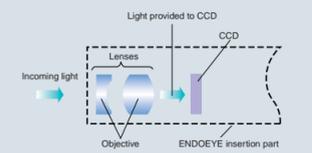
- The optics are designed to maximize the CCD performance.
- Since fewer lenses are required, reflected noise that occurs at the lens surface is reduced, allowing high contrast imaging.
- Since fewer lenses are required, light absorption that occurs inside the lens is reduced, allowing bright, natural-color imaging and deep depth of field.

- A wider field of view is gained for more reliable orientation. (LTF-V3)
- Illumination lenses are placed at the tip. This facilitates the most appropriate light distribution and contributes to a wider field of view. (LTF-VP/V3)
- Except at the tip, only cables are housed inside the scope, making it highly durable. (Very little deterioration of image quality due to lens damage)



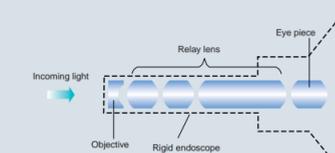
ENDOEYE

Fewer lenses are required for light distribution to the CCD.



Rigid Endoscope + Camera Head

A lot more lenses are required for light distribution to the CCD.

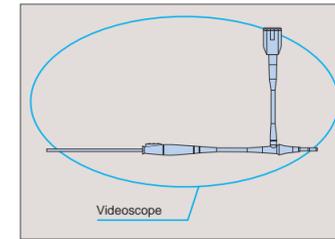


Superb Control

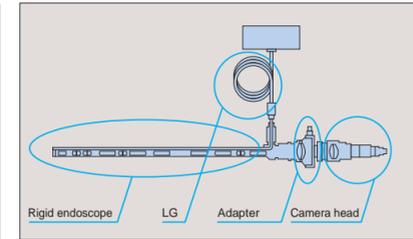
Excellent Handling Light Cable Integrated One-Piece Design

LTF-VP/V3 A500**A

ENDOEYE has a one-piece design with an integrated LG (light guide) cable, allowing easy setup and excellent intra-operative maneuvering. Moreover, post-operative cleaning/disinfection/sterilization procedures are much easier compared to combined camera head/rigid endoscope systems.



< ENDOEYE >



< Rigid Endoscope + Camera Head >

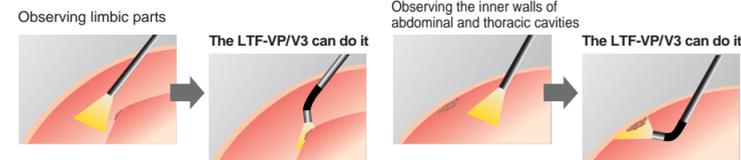


Captures Difficult-to-See Sites in Abdominal & Thoracic Cavities Angulation in 4 Directions

LTF-VP/V3

Angulation in 4 directions allows comprehensive observation of regions such as the sides and inner parts of organs. In addition, the shorter bending section allows for easier orientation even in narrow cavities.

For Example...



* Rigid endoscopes with 30° field of view also allow observation of the areas described above, but the LTF-VP/V3 eliminates the need to switch scopes.

Full Orientation Image Rotation*

A500**A

The scope can be rotated with a knob for more comprehensive observation.

*30° field of view models



Fingertip Control of Functions Remote Control Switches

LTF-VP/V3 A500**A

Switches can be programmed to allow the remote control of frequently used functions such as image capturing and zoom.



You can remote-control functions such as...

- Image Capture (On SmartMedia* via a PC card adapter)
- P in P, Rotated/Mirrored Image Display
- White Balance
- VTR Recording/Pause

*SmartMedia is a trademark of TOSHIBA Corporation.

Zoom (1.2x, 1.5x, or 2.0x)



Autoclavable

Faster Turnround Between Procedures and Greater Cost-Effectiveness Autoclavability

A500**A

Autoclave is fast — from 10 to 60 minutes for complete sterilization, making it easier to respond to a high rate of surgeries and emergencies. That efficiency is made even more impressive by running costs that are far lower than those associated with other sterilization methods.



Instrument Tray for LTF Videoscope
MAJ-172



Specifications

VISERA LAPARO-THORACO VIDEOSCOPE LTF TYPE VP/V3

Model	LTF TYPE VP	LTF TYPE V3
Optical System	89°	90°
Field Of View	18° (forward viewing)	0° (forward viewing)
Depth Of Field	18 - 100 mm	15 - 100 mm
Distal End Outer Diameter	ø5.4 mm	ø10 mm
Rigid Portion Outer Diameter	ø5.3 mm	ø10 mm
Working Length	370 mm	330 mm
Insertion Portion	Up 100°, Down 100°	Up 100°, Down 100°
Bending Section	Right 100°, Left 100°	Right 60°, Left 60°
Total Length	360mm	



• Number of remote control switches: 3

LENS CLEANING SHEATH (FOR LTF TYPE V3) MAJ-1345

Compatible Scope	VISERA LAPARO-THORACO VIDEOSCOPE OLYMPUS LTF TYPE V3
Weight	16g
Working Length	309mm
Insertion Tube Outer Diameter	ø12 mm
Irrigation Source	Syringe
Suction Source	Syringe



• When attached to the scope.

VISERA LAPARO-THORACO VIDEOSCOPE A50000A/A50001A/A50002A/A50003A

Model	A50000A	A50001A	A50002A	A50003A
Display	Full Screen	Full Screen	Full Screen	Full Screen
Television System	PAL	NTSC	PAL	NTSC
Picture Elements	470,000	410,000	470,000	470,000
Direction Of View	0°	30°	30°	30°
Field Of View	70°	70°	70°	70°
Depth Of Field	20 to 100 mm	20 to 100 mm	20 to 100 mm	20 to 100 mm
Outer Diameter	10 mm	10 mm	10 mm	10 mm
Working Length	300 mm	300 mm	300 mm	300 mm
Image Rotation Function	—	—	—	—
Dedicated Autoclave Tray	595 (L) x 295 (W) x 61 (H) mm	—	—	—



• Number of remote control switches: 3

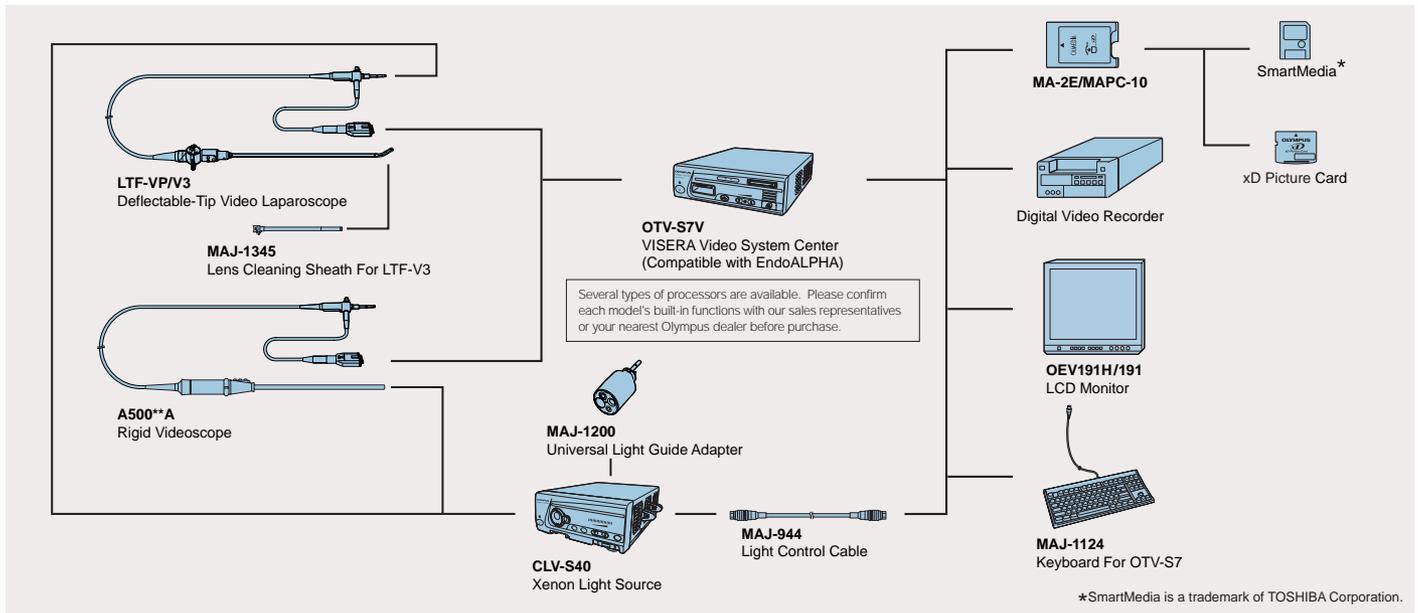
VISERA LAPARO-THORACO VIDEOSCOPE A50020A/A50021A/A50022A/A50023A

Model	A50020A	A50021A	A50022A	A50023A
Display	Full Screen	Full Screen	Full Screen	Full Screen
Television System	PAL	NTSC	PAL	NTSC
Picture Elements	320,000	270,000	320,000	270,000
Direction Of View	0°	30°	30°	30°
Field Of View	70°	70°	70°	70°
Depth Of Field	15 to 100 mm	15 to 100 mm	15 to 100 mm	15 to 100 mm
Outer Diameter	5.4 mm	5.4 mm	5.4 mm	5.4 mm
Working Length	300 mm	300 mm	300 mm	300 mm
Image Rotation Function	—	—	—	—
Dedicated Autoclave Tray	595 (L) x 295 (W) x 61 (H) mm	—	—	—



• Number of remote control switches: 3

System Chart



Ancillary Equipment



VISERA VIDEO SYSTEM CENTER
OTV-S7V

Select the type that meets your needs. You can also expand functions in the future as your needs change.



VISERA XENON LIGHT SOURCE
CLV-S40

A high-quality light source with a powerful 300W xenon lamp.



HIGH FLOW INSUFFLATION UNIT
UHI-3

Powerful 35 L/min. insufflation that quickly responds to abdominal gas leaks.

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

OLYMPUS[®]

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