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Surgical Imaging Platform

The surgical imaging platform serves as a hub to connect rigid and flexible scopes across multiple specialities – standardizing training, reprocessing and service to achieve OR efficiencies. It also links with a number of digital devices and networks to provide image, video management and documentation.

OTV-S190

- High-resolution HDTV imaging
  Equipped with high-resolution HDTV imaging capability even for 5 mm videoscopes.

- HD-SDI/DVI Output
  Both HD-SDI (for 1080i) and DVI (for 1080p) outputs are provided to suit your preference.

- Portable Memory Port
  Compatibility of user-friendly portable memory interface.

ENDOALPHA

- With ENDOALPHA, Olympus offers visionary control, communication, video management and documentation solutions that integrate the complete range of medical equipment and peripheral systems in the operating and intervention rooms.

TUR Camera Head

- Compact, lightweight 45 g design camera head with improved maneuverability helps reduce stress during long procedures in TUR and rigid cystoscopy.

PDD

- Unique filter-incorporated design specially made to maximize the performance of PDD observation.

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OTV-S190

VISERA ELITE Video System Center

- Equipped with high-resolution HDTV imaging capability (16:9 and 5:4) to provide the best possible image quality for flexible and rigid endoscopes. Enables comprehensive observation of different organs and tissue.
- Compatible with a wide range of endoscopes and camera heads, both for office and OR.
- 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.
- Two types of structure enhancement are available, Type A for observation of larger mucosal structures with high contrast and Type B for observation of smaller structures such as capillaries.
- HD-SDI (for 1080i) and DVI (for 1080p) output for high-quality video image transfer.
- Convenient digital-to-digital recording of still images into portable memory.
- Pre-freeze function improves the quality of still image for flexible scopes.

VISERA ELITE

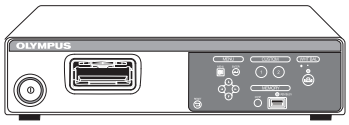
HDTV

NBI

PDD

VISERA ELITE Video System Center

N3643860 Video system center “OTV-S190”



Delivery includes:
Video system center, SDI cable MAJ-1951,
4 foot holders MAJ-1433, portable memory MAJ-1925,
power cable

Technical Data

Power supply
- Voltage.....100–240 V ~
- Frequency .....50/60 Hz
- Power consumption.....500 VA

Size
- Dimensions, standard .....width 370 mm
  height 150 mm
  depth 474 mm
- Dimensions, maximum.....width 383 mm
  height 162 mm
  depth 536 mm
- Weight.....14.9 kg

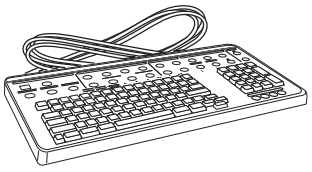
Safety
- Protection against electric shock.....class I
- Degree of protection against electric shock .....depends on applied part
- Directive 93/42/EEC.....class I

Observation
- HDTV signal output.....YP_BP_R and RGB 1080/50i
  HD-SDI 1080/50i
  DVI 1080/50p
- SDTV signal output .....VBS composite 576/50i: PAL
  Y/C 576/50i: PAL
  YP_BP_R and RGB 576/50i: PAL
- DVI output.....1920 x 1080 (1080p)
  1920 x 1200, 1280 x 1024
- Aspect ratio 16:10, 16:9, 4:3, 5:4

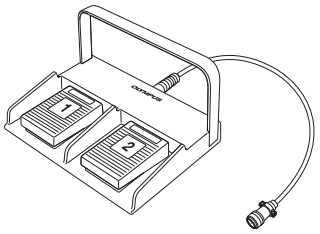
Ambient conditions
- Operation.....temperature 10–40 °C
  relative humidity 30–85%
  atmospheric pressure 700–1060 hPa
- Transport and storage .....temperature -25–70 °C
  relative humidity 10–90%
  atmospheric pressure 700–1060 hPa

Accessories

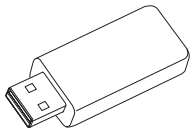
N3646760 Keyboard “MAJ-1922”



N2486200 Foot switch “MAJ-1391”



N3647000 Portable memory “MAJ-1925”



OTV-S190

VISERA ELITE Video System Center (cont.)

HD Autoclavable Camera Heads

- Full HD 3CCD
- Enhanced resolution and control
- Autoclavability
- NBI (Narrow Band Imaging)
- Three fully programmable remote switches
- Optical zoom via remote control
- Focus via remote control

N3804830 Camera head “CH-S190-XZ-E”, autoclavable, eyepiece type (clamping connector)

N3804730 Camera head “CH-S190-XZ-Q”, autoclavable, quick-lock type (quick-lock connector)

Technical Data

Size

- Dimensions, CH-S190-XZ-E ..... width 50 mm, height 63 mm, depth 142 mm
- Dimensions, CH-S190-XZ-Q ..... width 45 mm, height 58 mm, depth 161 mm
- Weight ..... 350 g
- Cable ..... Ø 6.8 mm x 3 m

Safety

- Protection against electric shock ..... class I
- Degree of protection against electric shock ..... type BF

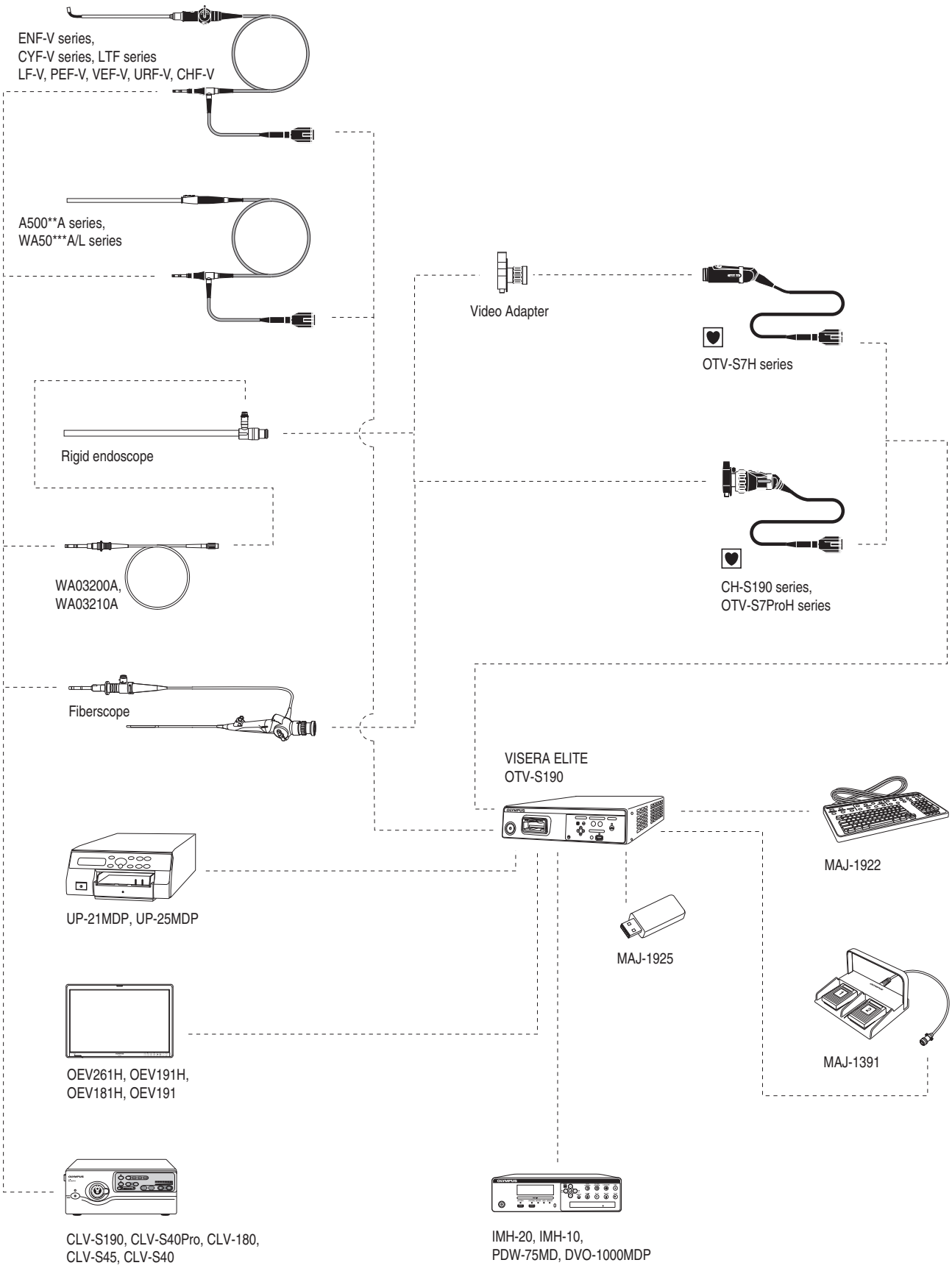
Observation

- Magnification ratio 0.9x–1.8x
- Focal distance ..... f=15.8–31.3 mm

Remote switches

- Programmable 3x
- Optical zoom adjustment 2x
- Focus adjustment 2x

System Chart



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CLV-S190

VISERA ELITE Xenon Light Source

VISERA ELITE

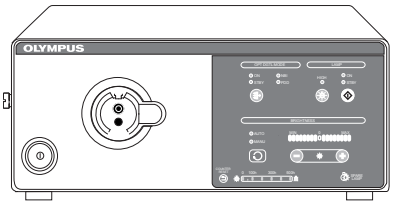
NBI

PDD

- Equipped with specially coated filters for NBI (Narrow Band Imaging).
- Option for specially coated filters for PDD (Photo Dynamic Diagnosis).
- Automatically adjusts light intensity to achieve ideal illumination for observation.
- Powerful 300-watt xenon lamp
- Backlit front panel indicators and controls improve operability.
- Automatic switching to emergency lamp

VISERA ELITE Light Source CLV-S190

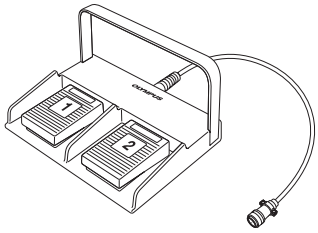
N3643950 Light source “CLV-S190”



Delivery includes:
Light source, 4 foot holders, light source cable MAJ-1959, power cable

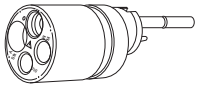
Foot Switch

N2486200 Foot switch “MAJ-1391”



Universal Light-Guide Adapter

N1052830 Light-guide adapter “MAJ-1200”



Contact Olympus for compatible light-guide cables.

Technical Data

Power supply
- Voltage.....100–240 V ~
- Frequency .....50/60 Hz
- Power consumption.....500 VA

Size
- Dimensions, standard .....width 370 mm
  height 150 mm
  depth 474 mm
- Dimensions, maximum.....width 383 mm
  height 162 mm
  depth 536 mm
- Weight.....14.9 kg

Safety
- Protection against electric shock.....class I
- Degree of protection against electric shock.....depends on applied part
- Directive 93/42/EEC.....class I

Illumination
- Examination lamp.....xenon short-arc lamp, 300 W
- Average lamp life.....500 hours
- Brightness control .....light-path diaphragm control
- Emergency lamp.....halogen lamp 12 V, 35 W

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

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EVIS EXERA II

Universal Imaging Platform

As the pioneering company in the field of endoscopy, Olympus is committed to providing physicians with the tools they need to perform the most challenging procedures with confidence. That means designing endoscopes and accessories that provide ease of operation and maneuverability, while offering the top quality and superior performance needed to achieve consistent, reliable results. You will get all that and more with the all-new EVIS EXERA II 180 Series system. Featuring unprecedented image quality, enhanced optics, ultra-slim design, expanded compatibility, and refined ergonomics, EVIS EXERA II sets a new standard of excellence for examination and treatment in the upper and lower gastrointestinal tract. EVIS EXERA II. Take endoscopy to the next level.

Experience the new standard in endoscopic imaging with this advanced HDTV compatible video processor.

HDTV

NBI

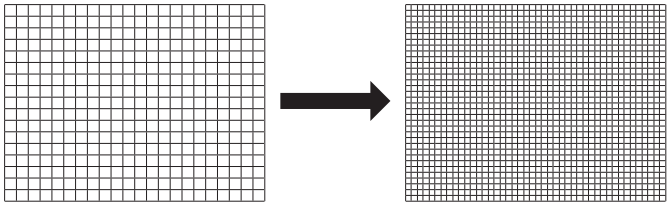
PDD

High-resolution HDTV images*

In our quest for the best-possible image quality, it was only natural that we add HDTV to EVIS EXERA II's impressive features. The HDTV images produced by EVIS EXERA II are composed of more than double the number of scanning lines and horizontal pixels used in conventional video systems. The tremendous increase in image information produces a picture that is incredibly sharp and detailed with virtually no detectable pixelation or artifacts. With HDTV, it is now possible to accurately render capillaries and subtle mucosal structures throughout the screen area. This enhanced image quality may improve diagnostic capability and procedural efficiency.

* Available with HD EndoEYE, camera heads OTV-S7ProH-HD-12E/Q, and the GIF-H180 and CF-H180AL/I

What is HDTV?



SDTV HDTV

HDTV — or high-definition television — offers image quality comparable to film and all the convenience and flexibility of conventional video. With 1,080 effective scanning lines of picture information, compared to 480 for NTSC and 576 for PAL, HDTV delivers picture quality that is more than twice as good as conventional TV. Increased pixel density produces a smooth clear picture whose remarkable detail, and natural colors are unmarred by the pixelation seen in lower-resolution images. This superb quality and realism makes HDTV ideal for demanding imaging applications such as endoscopy.

Video System Center CV-180

- HD/SD SDI output for high-quality video image transfer
- NBI (Narrow Band Imaging) to enhance the visibility of capillaries and other structures on the mucosal surface
- Compatible with PDD (Photo Dynamic Diagnosis, only available in Europe)

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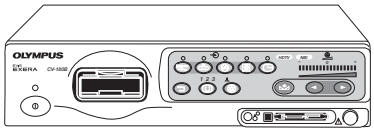
CV-180

EVIS EXERA II Video System Center

EXERA II Video System Center

N2277462 Video system center “CV-180”



Delivery includes:
Video system center, keyboard, power cable, scope cable, HDTV/SDTV monitor cable, foot holder, 2 spare fuses, white cap, white cap holder, scope cable holder, water container

Technical Data

Power supply
- Voltage.....220–240 V ~
- Frequency .....50/60 Hz
- Power consumption.....150 VA

Size (control unit)
- Dimensions .....382 (W) x 91 (H) x 490 (D) mm
- Weight.....10.5 kg

Classification
- Protection against electric shock .....class 1 type depending on applied part

Observation
- HDTV signal output.....RGB, YP_BB_R, SDI
- SDTV signal output.....RGB, YP_BP_R, SDI, VBS (composite), Y/C, FireWire[1] (IEEE 1394)

Recording
- Video tape recording.....RGB, Y/C, VBS (composite)
- Digital video .....SDI, FireWire[1] (IEEE 1394)
- Still images.....PC Card interface, adapter available for CompactFlash[2] cards

Compatibility

The EVIS EXERA II video system center CV-180 is compatible to:
- HD EndoEYE videoscopes
- EndoEYE videoscopes
- VISERA flexible videoscopes
- HD camera heads (EXERA II, see right column)
- 1CCD camera heads (VISERA, see sheet EQ-117)

Camera Heads

Camera head, HDTV 1080, NBI, angled, with three remote control switches, autoclavable, with integrated video adapter (clamping connector),

N3046640 “OTV-S7ProH-HD-10E”, 1.0x
N2638640 “OTV-S7ProH-HD-12E”, 1.2x

head size (focus ring x total length) Ø 41 x 105 mm
weight 215 g (excluding cable)
cable Ø 6.8 mm x 4 m

Camera head, HDTV 1080, NBI, angled, with three remote control switches, autoclavable, with integrated video adapter (quick-lock connector),

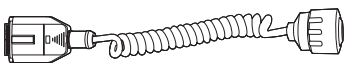
N3046740 “OTV-S7ProH-HD-10Q”, 1.0x
N2638740 “OTV-S7ProH-HD-12Q”, 1.2x

head size (focus ring x total length) Ø 35 x 124 mm
weight 215 g (excluding cable)
cable Ø 6.8 mm x 4 m

N3499640 Camera head, HDTV 1080, NBI, L-shape, with three inline cord switches for remote control, with integrated video adapter (clamping connector), “OTV-S7ProH-HD-L08E”, 0.8x

head size (focus ring x total length) Ø 20 x 82 mm
camera head weight 60 g (excluding cable)
remote switch weight 20 g
cable Ø 3.3 mm x 4 m

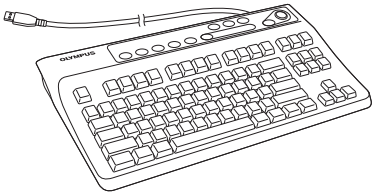
N2485700 Scope cable “MAJ-1430”



Connects videoscopes EVIS 100/130/140/160/180 Series to CV-180.

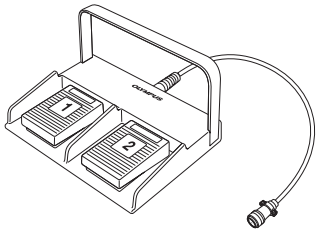
Accessories

N2485600 Keyboard “MAJ-1428”, including keyboard cover MAJ-1557

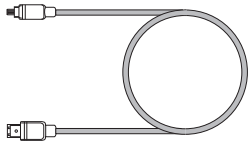


N2486400 Keyboard cover “MAJ-1557” (not shown)

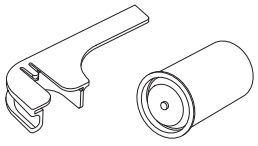
N2486200 Foot switch “MAJ-1391”



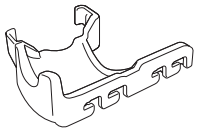
E0495702 Cable, FireWire[1], 6 pin to 4 pin, IEEE 1394



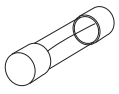
6882800 White cap “MAJ-941”, set, for white balance, includes white cap MH-155 and white cap holder MAJ-960



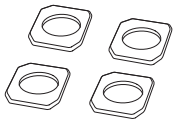
N2486100 Scope cable holder “MAJ-1466”



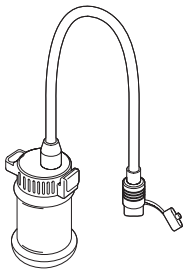
N2485900 Spare fuse “MAJ-1432”, 2 pcs.



N2486000 Foot holder “MAJ-1433” 4 pcs.



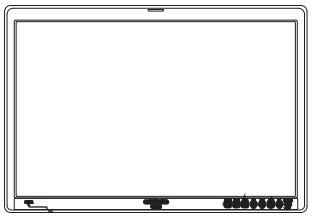
GC7271 Water container “MAJ-901”



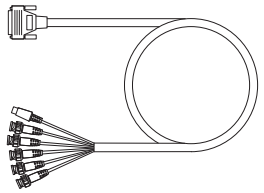
High Definition Monitor

N3629160 Monitor “OEV261H”, LCD, 26"

For details, see sheet EQ-515.

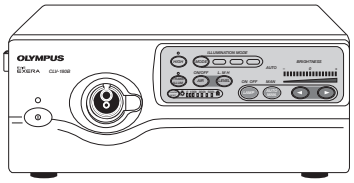


N2506900 HDTV/SDTV monitor cable “MAJ-1586”, 2 m length



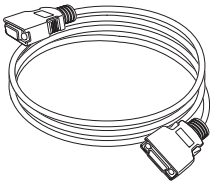
Light Source CLV-180

N2277252 Light source “CLV-180”



For details, see sheet EQ-140.

N2485400 Cable “MAJ-1411”, for light control, connects CV-180 to light source CLV-180



N2506600 Cable “MAJ-1567” (not shown), for light control, connects CV-180 to light sources CLV-S40/-S30/-S20/-U40

Digital Storage Solutions

For detailed information on digital storage solutions, contact your local Olympus sales representative.

PC Card adapter (not shown), for CompactFlash[2] cards

CompactFlash[2] card “swissbit”, 1 GB

[1] FireWire is a registered trademark of Apple Computer, Inc.

[2] CompactFlash is a registered trademark of The CompactFlash Association

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CLV-180

EVIS EXERA II Xenon Light Source

EVIS EXERA II

HDTV

NBI

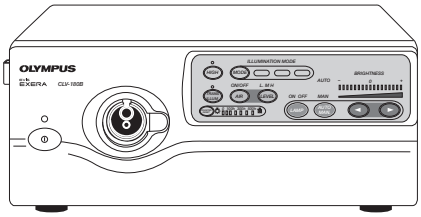
PDD

High-intensity 300 W light source delivers the illumination to drive HDTV and a new Narrow Band Imaging feature enhances visualization capabilities.

- Equipped with specially coated filters for NBI (Narrow Band Imaging)
- Compatible with:
  Surgical endoscopes (HD EndoEYE and EndoEYE videoscopes, flexible VISERA videoscopes, and 1CCD/3CCD camera heads) and EVIS 100/130/140/160/180 Series endoscopes as well as bronchoscopes
- Automatically adjusts light intensity to achieve ideal illumination for observation of the gastrointestinal tract.
- Backlit front panel indicators and controls improve operability
- Equipped with special filter for PDD (Photo Dynamic Diagnosis, optionally available only in Europe)

EVIS EXERA II Xenon Light Source CLV-180

N2277252 Light source “CLV-180”,
Xenon,
300 W

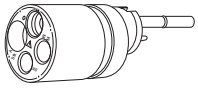


Spare Lamps

028148 Spare lamp “MD-631”,
24 V, 300 W, Xenon,
for light sources CLV-180 and CLV-S40
(not shown)

Universal Light-Guide Adapter

N1052830 Light-guide adapter “MAJ-1200”



Contact Olympus for compatible light-guide cables.

Technical Data

Power supply
- Voltage.....100–240 V ~
- Frequency .....50/60 Hz
- Power consumption.....500 W

Size
- Dimensions .....383 (W) x 162 (H) x 536 (D) mm
- Weight.....15.4 kg

Classification
- Protection against electric shock .....class 1
  type depending on applied part

Illumination
- Lamp .....300 W Xenon
- Lamp life.....approx. 500 hrs.
  on continuous use*
- Brightness adjustment.....light-path diaphragm control
- Emergency lamp .....Halogen (without mirror),
  12 V, 35 W
- Emergency lamp life.....approx. 500 hrs.
  on continuous use*

* in intermittent use, lamp life may differ slightly

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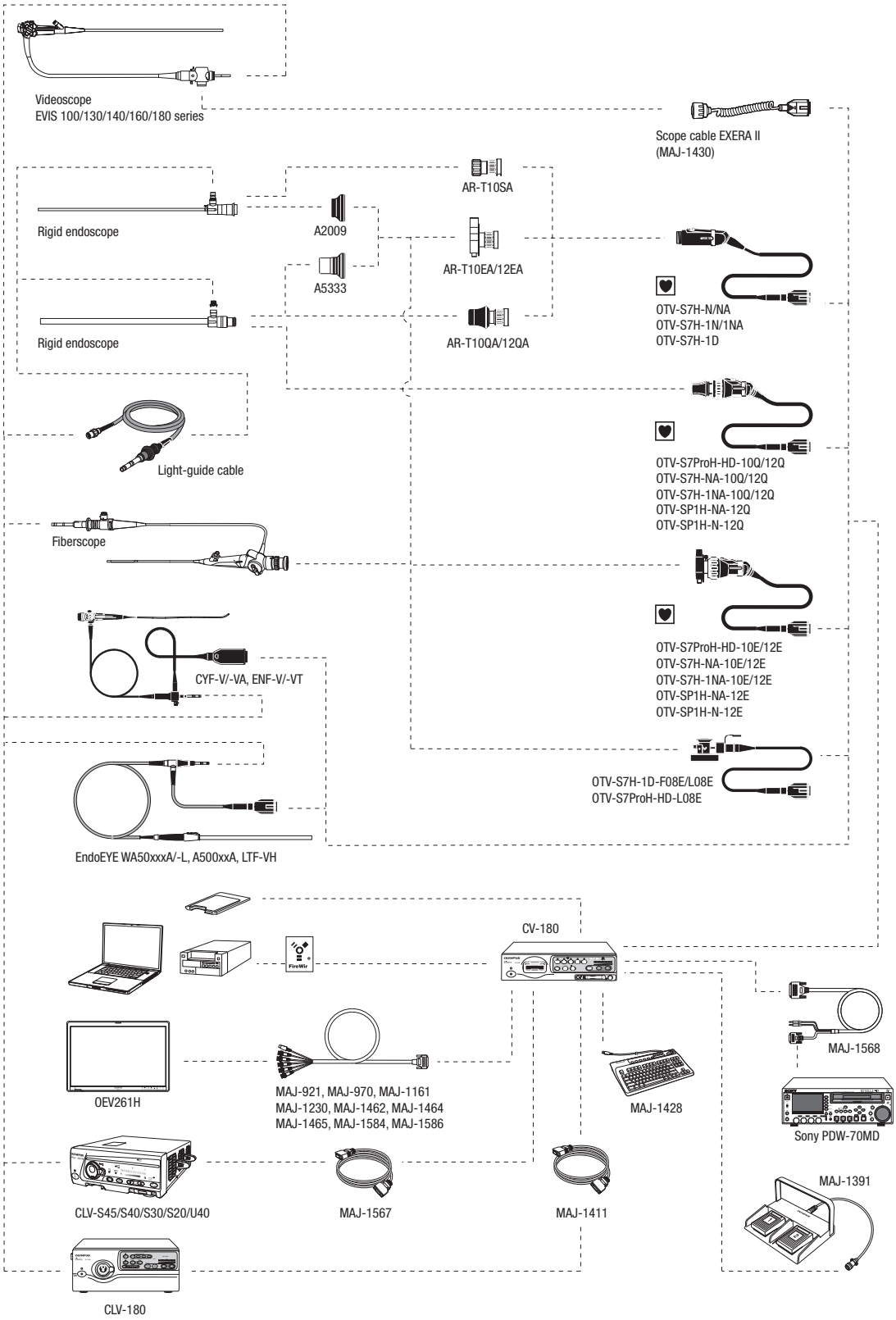
EVIS EXERA II

Universal Imaging Platform (System Chart)



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VISERA

Video System

The VISERA imaging system is the ultimate endoscopic imaging device from Olympus uniquely configurable to the needs of the user. VISERA integrates the image generation chain from camera to computer and is designed to meet the requirements of doctors, nurses and hospital administration staff by providing:

- High Performance Imaging
- High Performance Handling
- Cost-Effectiveness
- Ease of Use

VISERA

High Performance Imaging

- Digital solution to record and manage still images (xD-Picture Card) and movies (FireWire DV output: IEEE 1394)
- Compatibility with chip-on-the-tip technology of flexible videoscopes and video laparoscopes
- All-in-one concept: Less critical interfaces which may cause any loss of image quality

High Performance Handling

- B.O.D concept (Build-On-Demand) to cope with individual requests such as image mixing (Ultrasound, X-ray, MRI images), Multifreeze etc.
- Ready-to-use system:
  Presettings, freely programmable
- Keyboard for convenient and standardized control of all functions like color modes or patient data
- Versatile camera head line-up including 2–4 remote switches for quick activation of individual functions

Cost-Effectiveness

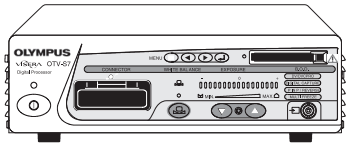
- Individual camera configuration according to actual needs
- Video system can be shared across departments for office and operation theatres
- Easy upgrade according to future needs (B.O.D. concept)
- Safe and effective reprocessing: autoclavability of video laparoscopes and several camera heads

Ease of Use

- All-in-one construction: flexible videoscopes, video laparoscopes, camera heads with integrated video adapter
- Simple reprocessing: autoclavability of video laparoscopes and several camera heads
- Connector: easy cleaning and connection to OTV-S7V

VISERA Video System Center

VISERA complete set,
ready-to-use



WA97101A Control unit “OTV-S7V-A”,
with keyboard

WA97102A Control unit “OTV-S7V-B”,
with keyboard,
PC Card interface with adapter,
FireWire[1] interface with cable

WA97103A Control unit “OTV-S7V-C”,
with keyboard,
PC Card interface with adapter,
FireWire[1] interface with cable,
Picture-In-Picture

WA97104A Control unit “OTV-S7V-D”,
with keyboard,
FireWire[1] interface with cable

Delivery of all control units includes:
control unit, power cable, light control cable MAJ-944,
BNC cable, RGB cable, Y/C cable

Technical Data

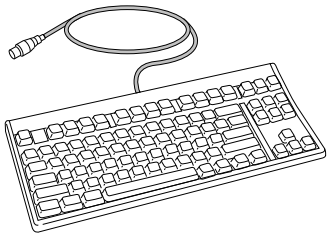
Power supply
- Voltage ..... 220–240 V ~
- Frequency ..... 50/60 Hz
- Power consumption ..... 70 W

Dimensions (control unit)
- W x H x D ..... 295 x 80 x 370 mm

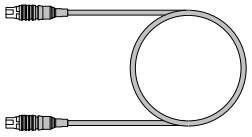
Weight
- OTV-S7V-A ..... 6.1 kg
- OTV-S7V-B ..... 6.5 kg
- OTV-S7V-C ..... 6.6 kg
- OTV-S7V-D ..... 6.3 kg

VISERA Accessories

N1019500 Keyboard “MAJ-1124”



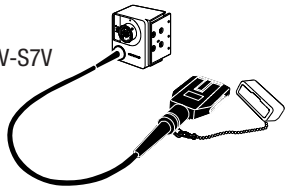
N1012400 Cable “MAJ-944”,
for light control,
connects OTV-S7V
to light source CLV-S40



For light source CLV-S40, see sheet EQ-339.

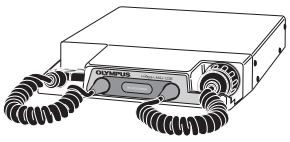
VISERA Converters

N1027330 Converter “MAJ-1173”,
camera heads OTV-S6H-... to OTV-S7V



Allows the connection of
OTV-S6 camera heads, video
laparoscopes A4800A-05A,
and flexible videoscope LTF-V2 to
the VISERA System OTV-S7V.

N1067360 BF processor “MAJ-1236”,
BF-160 to OTV-S7V

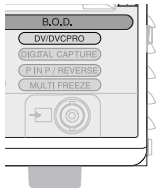


Allows the connection of BF Type 160
series bronchovideoscopes to
the VISERA System OTV-S7V.

VISERA Build-On-Demand Expansions

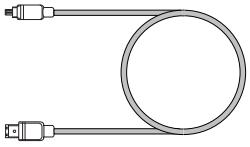
B.O.D. – “Build-On-Demand”:
Expansion boards for customized upgrades of VISERA control units.

N1012040 Insert card “OTV-S7BOD-DV”,
FireWire[1] interface,
for connection to PCs and digital VCRs with a FireWire[1] interface (IEEE 1394)



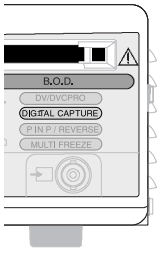
Allows to record movie images on PCs or digital VCRs.

E0495702 Cable, FireWire [1],
6 pin to 4 pin, IEEE 1394,
for OTV-S7V-B/-C-D control units equipped with a FireWire[1] interface



N1012100 Insert card “OTV-S7BOD-PC”,
PC Card interface,
for PC Card adapter “MA-2E”

Allows to record still images on chip cards.
For PC Card adapter and accessories, see right column.



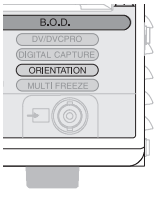
N1012240 Insert card “OTV-S7BOD-PP”,
Picture-In-Picture function

Functions:
- Simultaneous display of another image as main or sub-display (e.g. ultrasonic, CT, MRI)
- Switching between two images
- Image rotation and mirroring
- Reversed image on separate monitor

N1012300 Insert card “OTV-S7BOD-MF”,
Multi-Freeze function

Used for stroboscopic applications.

N1058300 Insert card “OTV-S7BOD-RT”,
display of 180° rotated pictures



Digital Storage Solutions

For detailed information on digital storage solutions, contact your local Olympus sales representative.

PC Card adapter (not shown),
for CompactFlash[2] cards

CompactFlash[2] card “swissbit”,
1 GB

[1] FireWire is a registered trademark of Apple Computer, Inc.
[2] CompactFlash is a registered trademark of The CompactFlash Association

VISERA Camera Heads

Camera head, standard, angled,
with two remote control switches,

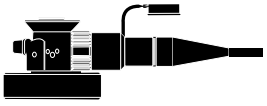
N1012540 "OTV-S7H-N"
N1012640 "OTV-S7H-1N", with moiré filter

head size (from mount surface) Ø 27 x 37 mm
weight 40 g (excluding cable)
cable Ø 5.2 mm x 4 m

N1012740 Camera head, standard, straight,
with two remote control switches,
"OTV-S7H-1D", with moiré filter

head size (from mount surface) Ø 27 x 37 mm
weight 40 g (excluding cable)
cable Ø 5.2 mm x 4 m

Camera head, L-shape,
with integrated video adapter
(clamping connector), 0.8x,



N1013740 "OTV-S7H-1D-L08E", with moiré filter
N1013840 "OTV-S7H-1D-F08E", with moiré filter, with ocular

weight 45 g (excluding cable)
cable Ø 3.3 mm x 4 m

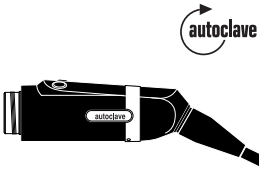
A97070A Spare cover, for eyepiece of OTV-S7H-1D-F08E (not shown)

Video Adapters

For video adapters, see sheet EQ-121.

VISERA Autoclavable Camera Heads

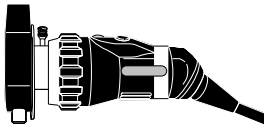
Camera head, standard, angled,
with two remote control switches,
autoclavable,



N1012840 "OTV-S7H-NA"
N1012940 "OTV-S7H-1NA", with moiré filter

head size (from mount surface) Ø 29 x 85 mm
weight 125 g (excluding cable)
cable Ø 6.8 mm x 4 m

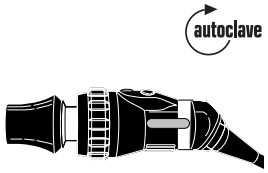
Camera head, standard, angled,
with three remote control switches,
autoclavable,
with integrated video adapter
(clamping connector),



N1013040 "OTV-S7H-NA-10E", 1.0x
N1013140 "OTV-S7H-1NA-10E", 1.0x, with moiré filter
N1013240 "OTV-S7H-NA-12E", 1.2x
N1013340 "OTV-S7H-1NA-12E", 1.2x, with moiré filter

head size (from mount surface) Ø 29 x 85 mm
weight 215 g (excluding cable)
cable Ø 6.8 mm x 4 m

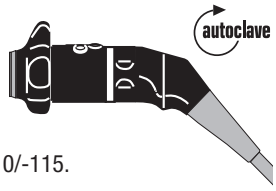
Camera head, standard, angled,
with three remote control switches,
autoclavable,
with integrated video adapter
(quick-lock connector),



N1013440 "OTV-S7H-NA-10Q", 1.0x
N1013540 "OTV-S7H-NA-12Q", 1.2x
N1013640 "OTV-S7H-1NA-12Q", 1.2x, with moiré filter

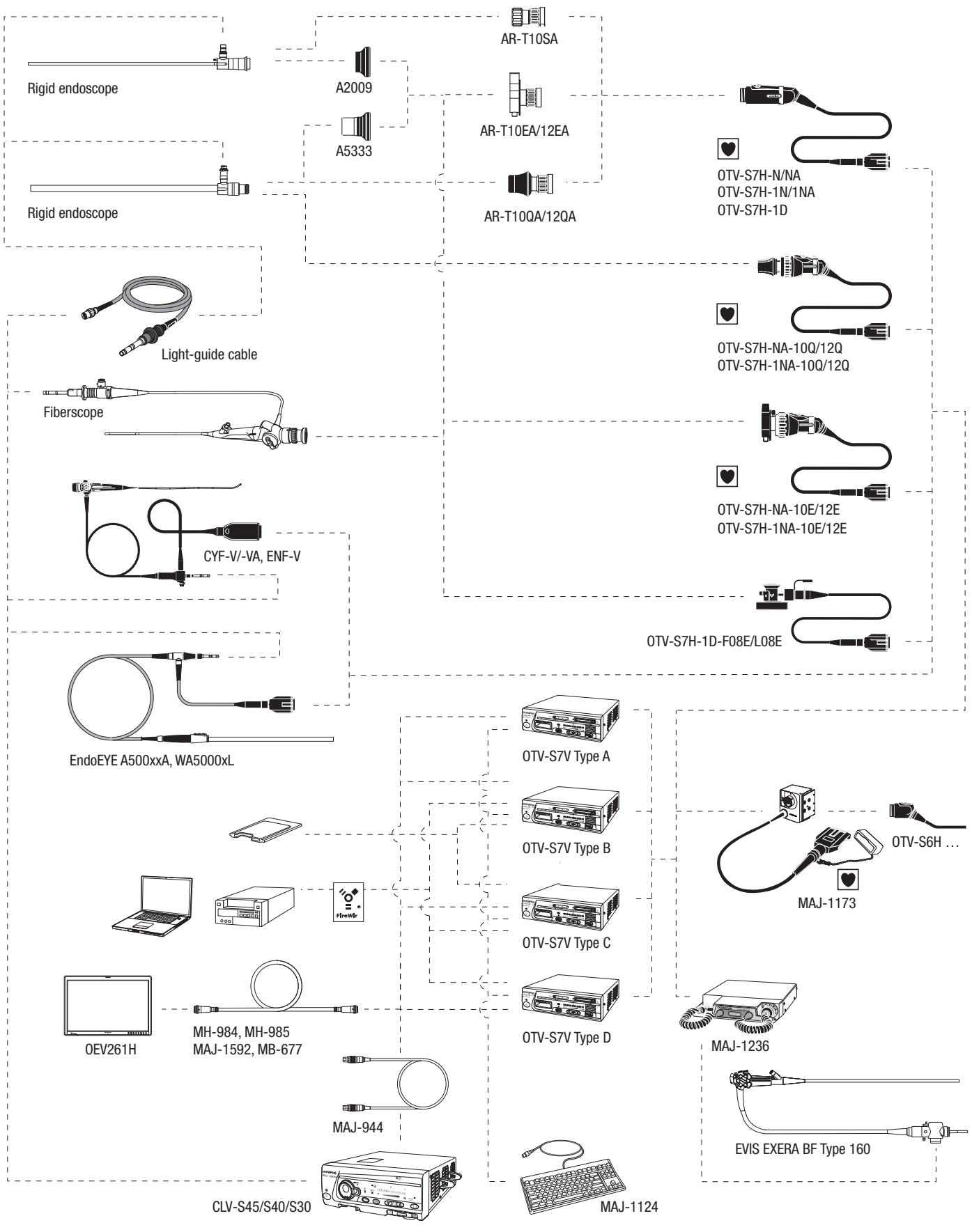
head size (from mount surface) Ø 29 x 113 mm
weight 190 g (excluding cable)
cable Ø 6.8 mm x 4 m

N1771840 Camera head "OTV-S7H-VA",
autoclavable,
for TrueView Direct telescopes



For details, see sheets AR-105/-110/-115.

VISERA System Chart



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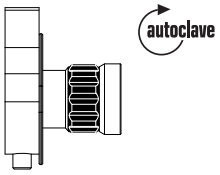
Video Adapters

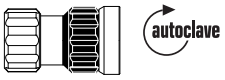
for VISERA, OTV-SC

Autoclavable Video Adapters

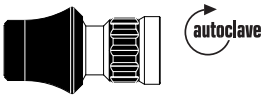
	Video adapter, eyepiece type, autoclavable,
A4210A	“AR-T10EA”, 1.0x
A4211A	“AR-T12EA”, 1.2x



A4212A	Video adapter, screw type, autoclavable, “AR-T10SA”, 1.0x

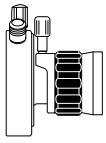


	Video adapter, quick-lock type, autoclavable,
A4214A	“AR-T10QA”, 1.0x
A4215A	“AR-T12QA”, 1.2x

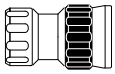


Video Adapter

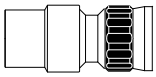
	Video adapter, eyepiece type,
A8960	“AR-T10E”, 1.0x
A8963	“AR-T12E”, 1.2x



	Video adapter, screw type,
A8961	“AR-T10S”, 1.0x
A8964	“AR-T12S”, 1.2x



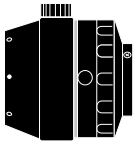
	Video adapter, quick-lock type,
A8962	“AR-T10Q”, 1.0x
A8965	“AR-T12Q”, 1.2x



	Video adapter, L-shape, eyepiece type,
A4923	“AR-TF08E”, 0.8x, with viewfinder
A4924	“AR-TL08E”, 0.8x

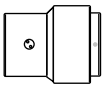
Video Adapter for OES Fiberscopes

	Video adapter, for OES fiberscopes (gastroscopes etc.),
A4929	“A10-T1”, 1.0x
A4930	“A10-T2”, 2.0x

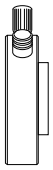


Video Couplers

A4925 Video coupler “MH-999Q”, quick-lock type



A4926 Video coupler “MH-999E”, eyepiece type



A4927 Video coupler “MH-999S”, screw type

Video Adapters for Couplers

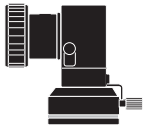
For use with video couplers MH-999Q/E/S.

A4921 Video adapter, “AR-T10”, 1.0x

A4920 Video adapter, “AR-T12”, 1.2x

A4922 Video adapter “AR-TZ2”, zoom type, 1.0–2.0x

A4928 Video adapter “AR-TL12S”, L-shape



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CLV-S45

VISERA Xenon Light Source

- Powerful illumination and long service life
  Incorporating a high-quality 300 W Xenon lamp, the CLV-S45 lets you observe images as if under natural light. Lamp service life is extended up to 500 hours*.

- Automatic brightness control
  When the CLV-S45 is connected via a light control cable to video systems such as the VISERA Video System, the brightness can be automatically adjusted.

- Turn-off function
  Illumination can be turned off using a switch on the front panel or a remote control switch on the camera head.

- Intensity-mode memory
  With Intensity-Mode Memory, the CLV-S45 automatically recalls the intensity mode it was set to when last used.

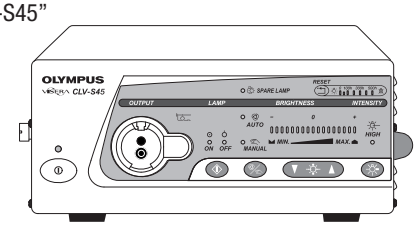
- Versatile compatibility
  With the MAJ-1200 universal light-guide adapter, the CLV-S45 can be connected to non-Olympus light guide cables.

- Automatic switching to a spare lamp, digital display of lamp life

VISERA

VISERA Light Source CLV-S45

N3523940 Light source “CLV-S45”



Delivery includes:
Light source, 4 foot holders, power cable

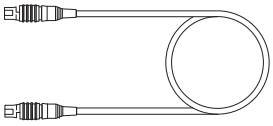
Spare Lamps

028148 Spare lamp “MD-631”,
24 V, 300 W, Xenon,
for light sources CLV-180 and CLV-S45

Light Control Cables

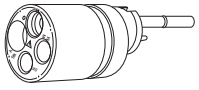
Connect light source CLV-S45 to a compatible video system center or camera control unit for automatic brightness control.

Light control cable,
N1012400 “MAJ-944”, for OTV-S7V and OTV-SP1C
N2506600 “MAJ-1567”, for OTV-S7Pro and CV-180,



Universal Light-Guide Adapter

N1052830 Light-guide adapter “MAJ-1200”



Contact Olympus for compatible light-guide cables.

Technical Data

Power supply
- Voltage.....100–240 V ~
- Frequency .....50/60 Hz
- Power consumption.....500 VA

Size
- Dimensions, standard .....width 295 mm
  height 125 mm
  depth 395 mm
- Dimensions, maximum.....width 347 mm
  height 136 mm
  depth 436 mm
- Weight.....10.4 kg

Safety
- Protection against electric shock.....class I
- Degree of protection against electric shock of applied part .....type BF
- Directive 93/42/EEC.....class I

Illumination
- Examination lamp.....Xenon short-arc lamp, 300 W
- Maximum intensity .....2194 lm
- Average lamp life.....500 hours*
- Brightness control .....Light-path diaphragm control
- Spare lamp.....Halogen lamp 12 V, 35 W

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

* Service life may vary slightly depending on usage.

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OTV-SC
CLH-SC

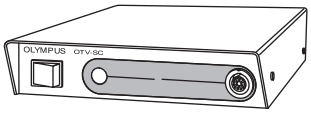
Compact Office Video System

Designed especially to meet the need for low-cost video system suitable for endoscopic examinations on an out-patient basis, the OTV-SC video system provides good levels of resolution and brightness. This system focuses on essential functions, delivering the performance needed in the office at an affordable price.

- Office-camera with ultra-compact 1/4" chip and built-in moiré filter for optimum image quality
- Small and light-weight camera head
- Bright 150 W halogen light source for the office
- Uniform compact design and ease of use
- Manual brightness control

Video System OTV-SC

A4898 Control unit “OTV-SC”, 230 V



Delivery includes: Control unit, camera head “MAJ-554”, Y/C cable, BNC cable, power cable

Technical Data

Power supply
- Voltage.....220–240 V ~
- Frequency .....50/60 Hz

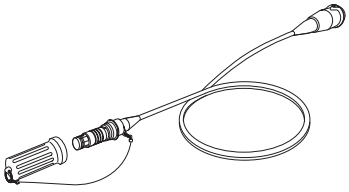
Size (control unit)
- Dimensions.....220 (B) x 48 (H) x 290 (T) mm
- Weight.....2.1 kg

Classification
- Protection against electric shock.....class 1, type BF

Observation
- Pickup system.....1/4" CCD

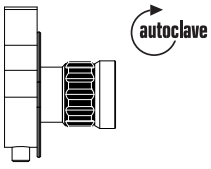
Interfaces
- VBS signal .....1 x
- Y/C signal .....2 x

A4899 Camera head “MAJ-554”, for OTV-SC



Weight 43 g,
Head size 23 x 46 mm,
Picture elements 470,000

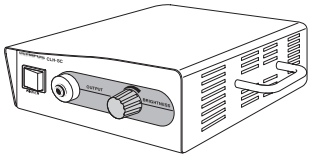
Video adapter, eyepiece type, autoclavable,
A4210A “AR-T10EA”, 1.0x
A4211A “AR-T12EA”, 1.2x



For other video adapters, see sheet EQ-180.

Light Source CLH-SC

A4959 Light source “CLH-SC”, 230 V



Technical Data

Power supply
- Voltage.....120, 220–240 V ~
- Frequency .....50/60 Hz

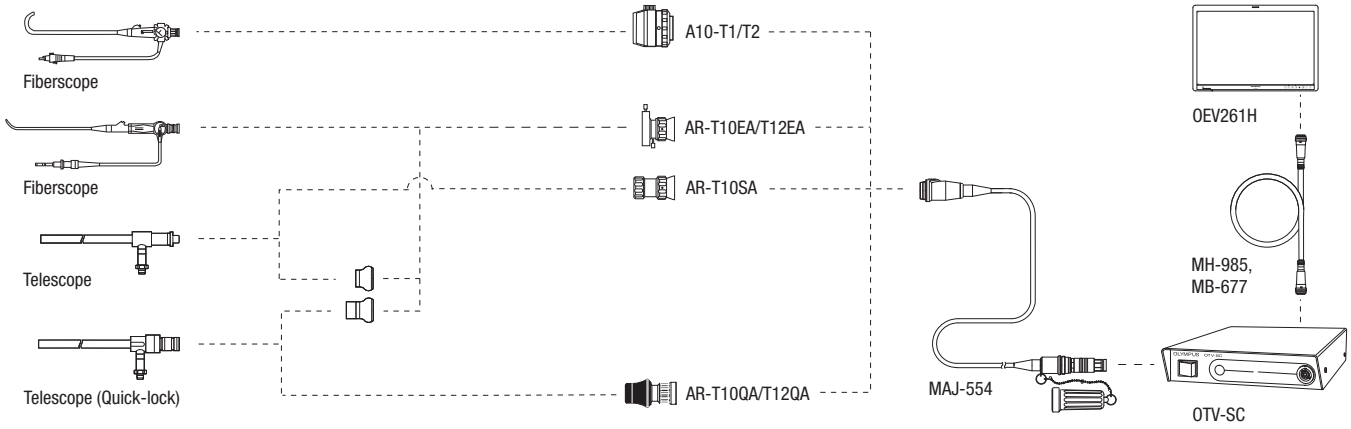
Size
- Dimensions.....220 (B) x 74 (H) x 290 (T) mm
- Weight.....5 kg

Classification
- Protection against electric shock.....class 1, type BF

Illumination
- Lamp.....150 W halogen
- Brightness control .....Light-path diaphragm by using the dial on the front panel

300815 Spare lamp, 15 V, 150 W, for A4959

System Chart OTV-SC



OLYMPUS

Your Vision, Our Future

CLL-S1

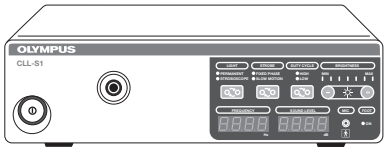
StrobeLED
Stroboscopy LED Light Source

StrobeLED, the stroboscopy light source from Olympus – especially designed for laryngologists and voice experts – enables an incredibly precise and noise free examination and diagnosis of voice disorders.

- Reliable stroboscopy algorithm:
  No flickering in video, no blackouts
- Great illumination in permanent and stroboscopy mode
- Noise free:
  No side tone distraction during examination
- Adjustable duty cycle:
  Choice between more resolution or more brightness depending on the application
- Low energy consumption (< 55W):
  Low lifetime costs and environmentally friendly compared to conventional lamps

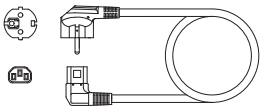
StrobeLED

WA97010A Light source “OLYMPUS CLL-S1”, for stroboscopy

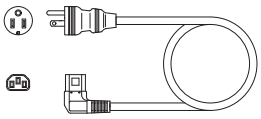


Delivery includes:
Light source, foot switch, microphone (incl. extension cable), 2 BNC cables, 4 foot holders, 2 spare fuses

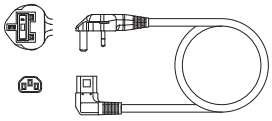
WA95621A Power cable, type E/F (CEE 7/7)



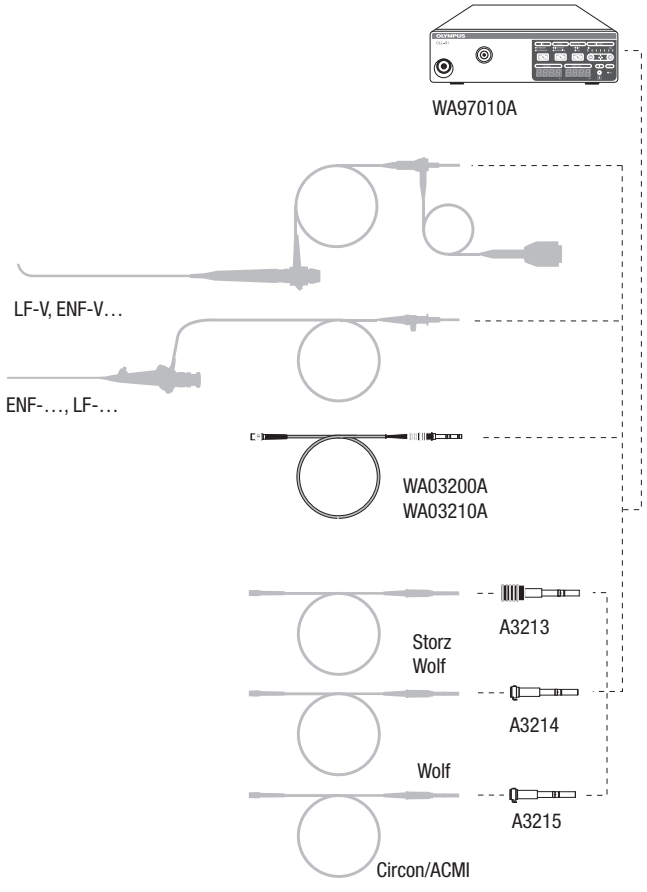
WA95622A Power cable, type B (NEMA 5-15)



WA95623A Power cable, type G (BS 1363)



System Chart



Technical Data

Power supply
- Voltage: 100–240 V ~
- Frequency: 50/60 Hz
- Power consumption: 100 VA
- Fuse: T 3.15 A 250 V

Size
- Dimensions: width 370 mm, height 111 mm, depth 475 mm
- Weight: 7.85 kg

Safety
- Protection class acc. to IEC 60601-1: BF
- Ingress protection rate: IPX0

Illumination
- Lamp: LED
- Operating hours: 2,000 hours

Microphone
- Cable length: 1 m
- Length of extension cable: 1 m
- Type: electret condenser microphone
- Polar pattern: omnidirectional
- Frequency response: 100–12,000 Hz
- Sensitivity: -42 dB at 1 kHz
- Output impedance: 2.2 kΩ

Audio/Video
- AUDIO OUT: line-level audio output with Vpp < 1 V
- VIDEO IN and VIDEO OUT: 75 Ω composite video signal

Ambient conditions
- Operation: temperature 10–38 °C, relative humidity 30–85%, atmospheric pressure 700–1060 hPa
- Storage: temperature 10–40 °C, relative humidity 30–75%, atmospheric pressure 500–1060 hPa
- Transport: temperature -29–70 °C, relative humidity 10–95%, atmospheric pressure 500–1060 hPa

OLYMPUS

Your Vision, Our Future

CLL-V1

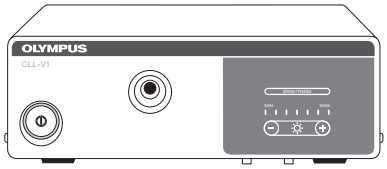
LED Light Source

The CLL-V1 light source from Olympus is based on the latest LED technology and enables a bright examination at very low energy consumption.

- High brightness compared to conventional halogen light sources
- Homogeneous light distribution due to optimized lens design for a wide range of telescopes
- Constant light intensity over lifetime
- Low maintenance costs:
  No bulb exchanges required for at least 5,000 hours.
- Low lifetime costs due to low energy consumption of environmentally friendly LED technology

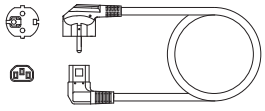
Light Source CLL-V1

WA97020A Light source “OLYMPUS CLL-V1”

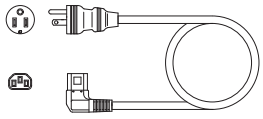


Delivery includes:
Light source, 4 foot holders, 2 spare fuses

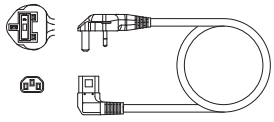
WA95621A Power cable,
type E/F (CEE 7/7)



WA95622A Power cable,
type B (NEMA 5-15)



WA95623A Power cable,
type G (BS 1363)



Technical Data

Power supply
- Voltage.....100–240 V ~
- Frequency.....50/60 Hz
- Power consumption.....100 VA
- Fuse.....T 3.15 A 250 V

Size
- Dimensions.....width 295 mm
  height 111 mm
  depth 404 mm
- Weight.....6.3 kg

Safety
- Ingress protection rate.....IPX0

Illumination
- Lamp.....LED
- Operating hours.....2,000 hours

Ambient conditions
- Operation.....temperature 10–38 °C
  relative humidity 30–85%
  atmospheric pressure 700–1060 hPa
- Storage.....temperature 10–40 °C
  relative humidity 30–75%
  atmospheric pressure 500–1060 hPa
- Transport.....temperature -29–70 °C
  relative humidity 10–95%
  atmospheric pressure 500–1060 hPa

OLYMPUS

Your Vision, Our Future

EndoLED

Miniature Light Source

Mobility without compromise: Brightness and convenience
The Olympus EndoLED incorporates the latest LED technology delivering unprecedented white light with an excellent colour reproduction.

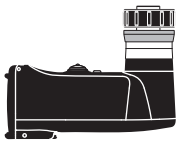
- Colour temperature like Xenon light thanks to careful LED selection
- High brightness over the entire LED lifetime of 100,000 hrs
- Convenient battery concept using standard AA rechargeable batteries and a battery status indicator
- Ergonomic design for rigid and flexible endoscopes for more comfort
- Highest reprocessing standards: fully immersible, washer and disinfector compatible, sterilizable with Sterrad

EndoLED Light Source

WA91500A Light source “EndoLED”,
for rigid endoscopes

for rechargeable batteries
(requires 2 batteries of WA91505A),
with battery status indicator (lasts up to 3 hrs.),
includes 2 adapter 00332

WA91502A Light source “EndoLED”,
for flexible endoscopes



for rechargeable batteries
(requires 2 batteries of WA91505A),
with battery status indicator (lasts up to 3 hrs.)

Technical Data

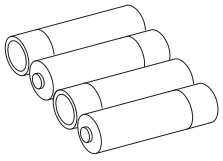
Dimensions

WA91500A .....34 (W) x 112 (H) x 39 (D) mm
WA91502A .....70 (W) x 90 (H) x 35 (D) mm

Weight (without batteries)

WA91500A .....140 g
WA91502A .....119 g

WA91505A Battery,
AA type,
rechargeable,
4 pcs.

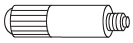


Miniature Light Source

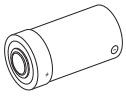
- Fully immersible waterproof design
- Powered by the same lithium battery normally used in cameras.
- Halogen lamp for sufficient power duration and light intensity

A9125 Light source “MAJ-524”,
for lithium batteries (not included),
battery life cycle 60 min

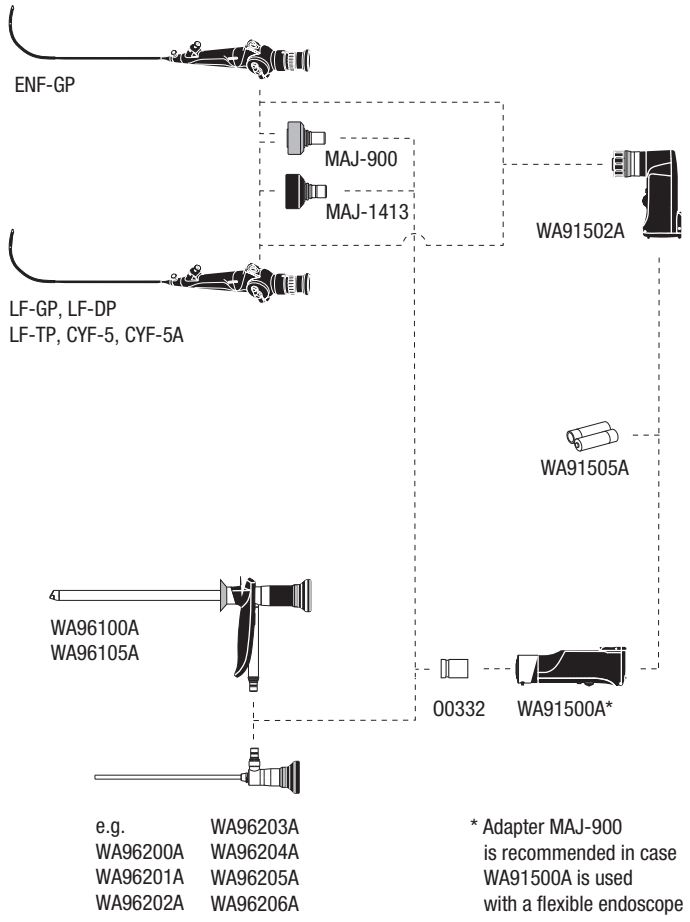
A9128 Spare lamp “MAJ-525”,
halogen, 5 pcs.,
for light source MAJ-524,
average life cycle 20 hrs.



A9126 Battery “CR123A/DL123A”,



System Chart



e.g.
WA96200A
WA96201A
WA96202A
WA96203A
WA96204A
WA96205A
WA96206A

* Adapter MAJ-900 is recommended in case WA91500A is used with a flexible endoscope

OLYMPUS

Your Vision, Our Future

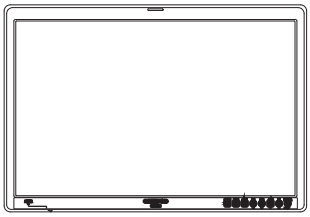
OEV261H

High Definition LCD Monitor

- Clear and crispy image by HDTV resolution (1200 x 1920 WUXGA)
- Impressive size: 26 inch
- Compatible with 5:4 and 16:10
- Easy handling by “one-touch-control”:
  - “Picture-in-Picture”
  - “Picture-on-Picture” (side-by-side split screen)
  - “Rotate” and “Mirror” function

High Definition LCD Monitor

N3629160 Monitor “OEV261H”,
LCD,
26"



Delivery includes:
Monitor, power cable,
AC adapter, DC cable, hook with screw,
6 screws for monitor mount

Technical Data AC Adapter

Power supply
- Voltage.....100–240 V ~
- Frequency .....50/60 Hz
- Current input .....1.6–0.6 A
- DC output .....24 V, 5 A
  5 V, 0.03 A

Size
- Dimensions (max.).....232 (W) x 50.5 (H) x 183 (D) mm
- Weight.....1.7 kg

Technical Data LCD Monitor

Power supply .....24 V, 5 A
5 V, 0.03 A

Size
- Dimensions .....599 (W) x 410 (H) x 100 (D) mm
- Weight.....8.9 kg

Display Panel
- LCD panel.....a-Si TFT active matrix
- Screen size.....26.0"
- Aspect ratio 16:10
- Number of pixels.....1920 x 1200 dots (WUXGA)
- Display colors .....approx. 1,677 million
- View angle.....Vertical: 178°
  Horizontal: 178°

Video signal input
- Composite video .....BNC
- Y/C (S-Video) .....4-pin mini-DIN
- Analog (RGB + SYNC/HD + VD/YP_BP_R) .....5x BNC,
  RGB, YP_BP_R
- SDI .....2x BNC (HD SDI, SD SDI)
- HD15.....D-Sub 15-pin
- DVI.....2x

Control signal input
- GPI .....D-Sub 9-pin
- RS-232C.....D-Sub 9-pin

Video signal output
- Composite video .....BNC, loop-through,
  auto 75 Ω termination
- Y/C (S-Video).....4-pin mini-DIN, active through out
- YP_BP_R/RGB .....3x BNC, loop-through,
  auto 75 Ω termination
- SYNC/HD.....BNC, loop-through,
  auto 1 kΩ termination
- VD.....BNC, loop-through,
  auto 1 kΩ termination
- SDI1 .....2x BNC, active through out
- HD15.....D-Sub 15-pin
- DVI-D1 .....2x DVI-D, switched out

Video Cables

	Cable, BNC,
027913	“MB-677”, 1.5 m
A5091	5 m
	Cable, RGB,
MAJ-1592	1.5 m, not available in Europe
A4918	“MH-984”, 3 m
MH-985	Cable, Y/C,
	3 m, not available in Europe
	Monitor cable,
MAJ-921	1.5 m, not available in Europe
028983	“MAJ-970”, 4 m
	Monitor cable,
N2506900	“MAJ-1586”, 2 m
N2485800	“MAJ-1462”, 7 m
N2506800	“MAJ-1584”, 15 m
N2486300	Cable “MAJ-1464”, SDI,
	22 m
	Remote cable, for HDTV monitor,
027866	“MAJ-1161”, 4 m
027867	“MAJ-1230”, 7 m
N2506500	“MAJ-1465”, 15 m

OLYMPUS

Your Vision, Our Future

WM-NP2

Mobile Workstation

The second generation WM-NP2 series mobile workstation has been designed specifically for the Visera Elite video system, incorporating an innovative and practical design.

- Storage
  The WM-NP2 will accommodate a wide range of electro-medical devices to meet the requirements of either routine or advanced endoscopic surgery.

- Monitor position
  The LCD monitor arm allows the operator to optimise the viewing position with ease, due to the integral gas spring and tensioned joints providing excellent balance in use.

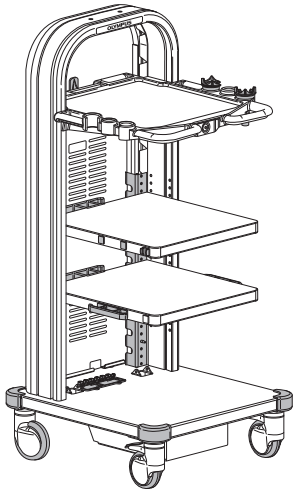
- Drawer pack
  The drawer pack facilitates safe storage of a variety of devices, providing a practical addition to the workstation. Multiple drawer packs can be fitted to a single workstation.

- Cable management
  Optimised cable management is achieved through a range of cable channels integral to the workstation hoop with the addition of dedicated cable winders at the rear of the workstation shelves.

- Electrical safety
  An separation transformer is fitted as standard providing the required level of electrical safety.

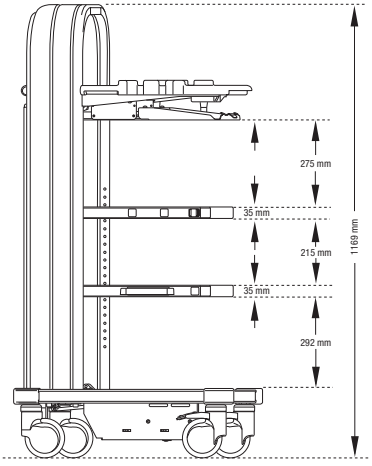
WM-NP2 Mobile Workstation

Mobile workstation “WM-NP2”,
K10021765 standard set #1
K10021964 standard set #3
K10021613 standard set #5
K10021617 standard set #6



Standard Sets

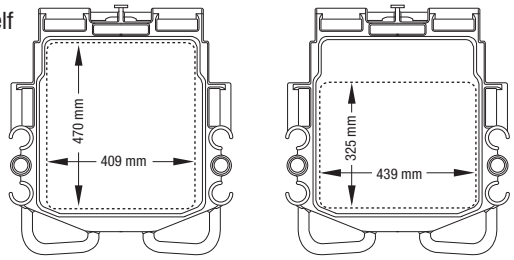
All standard sets include:
separation transformer MAJ-1648, power cable
Additional components in set #1:
LCD monitor arm MAJ-1641, keyboard tray MAJ-1640, scope pole MAJ-1638,
Additional components in set #3: none
Additional components in set #5:
LCD monitor arm MAJ-1641, keyboard tray MAJ-1640
Additional components in set #6 (only for Europe and the UK):
LCD monitor arm MAJ-1641, keyboard tray MAJ-1640, drawer unit MAJ-1643



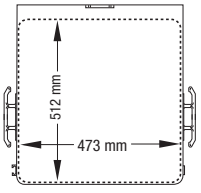
Technical Data

Dimensions
Height (endoscope in lowest position).....1370 mm
Height (endoscope in highest position).....2140 mm
Height (to top tray).....1169 mm
Height (26" monitor in highest position).....2073 mm
Width.....650 mm
Depth.....700 mm
Weight (incl. transformer).....85 kg (unladen)
Load capacity
Top tray.....20 kg
Intermediate shelves.....30.5 kg each
Base panel.....30 kg
Equipment stored on the mobile workstation should not exceed the size of the shelf.
Castors.....4 x 125 mm, 2 with brakes
Ambient conditions
Operation.....temperature 10–40 °C
relative humidity 95% maximum
atmospheric pressure 700–1060 hPa
Storage.....temperature -40–70 °C
relative humidity 95% maximum
atmospheric pressure 700–1060 hPa
Separation transformer MAJ-1648
Input voltage.....220–240 V
Frequency.....50/60 Hz
Power input (max.).....1900 W
Circuit breakers.....2x 9 A
Potential equalisation terminals.....1

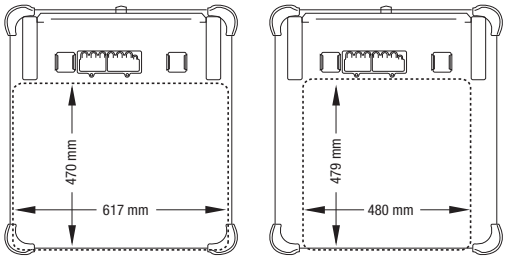
Top shelf



Middle shelf



Base shelf



OLYMPUS

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WM-NP2

Mobile Workstation (cont.)

Optional Accessories

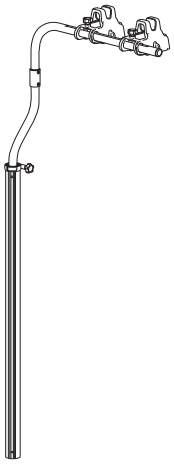
Nurses control panel arm (not shown)

K10021796 “MAJ-1662”, short

K10021798 “MAJ-1664”, long

K10021797 EUS arm mount kit “MAJ-1663” (not shown)

K10016823 Scope pole kit “MAJ-1638”

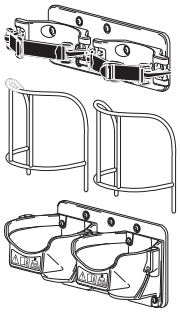


CO_2 gas cylinder holder,

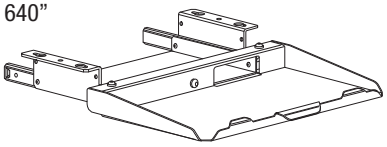
K10021041 “MAJ-1639”, single, up to 140 mm diameter (not shown)

K10021042 “MAJ-1650”, single, 140–205 mm diameter (not shown)

K10021043 “MAJ-1653”, double

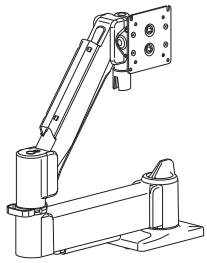


K10021464 Keyboard tray “MAJ-1640”

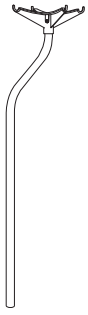


Optional Accessories (cont.)

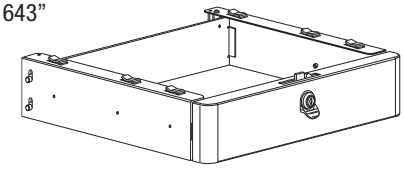
K10016875 LCD monitor arm “MAJ-1641”



K10016952 IV pole “MAJ-1642”



K10016960 Drawer unit “MAJ-1643”



K10021352 Equipotential terminal strip “MAJ-1654” (not shown)

K10021654 OEV261H Monitor PSU holder “MAJ-1655” (not shown)

K10021790 Footswitch holder “MAJ-1656” (not shown)

K10021791 Keyboard arm “MAJ-1657”, side mounted (not shown)

K10021792 Universal stowage container “MAJ-1658” (not shown)

K10021793 Equipment support rail “MAJ-1659” (not shown)

K10021794 Cable retaining hook “MAJ-1660” (not shown)

OLYMPUS

Your Vision, Our Future

TC-G2

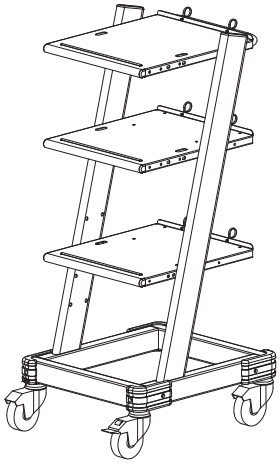
Energy Trolley

The TC-G2 is designed as a compact trolley for use in conjunction with the Olympus SonoSurg unit and associated equipment in the operating theatre environment.

- Adjustable shelf – the third shelf is fully adjustable to meet individual customer's equipment requirements.
- Cable management – simply and easily achieved using cable ties at the rear of the shelves
- Pushing handle – an integral pushing handle is located at the rear for easy and convenient manoeuverability.
- IV pole – supplied as standard, can be attached to either side of the trolley
- Plug block kit – a multiway plug block kit is available reducing the number of trailing cables to the mains supply.

Energy Trolley TC-G2

K7504123 Trolley “TC-G2”,
for SonoSurg and UES



Technical Data

Dimensions

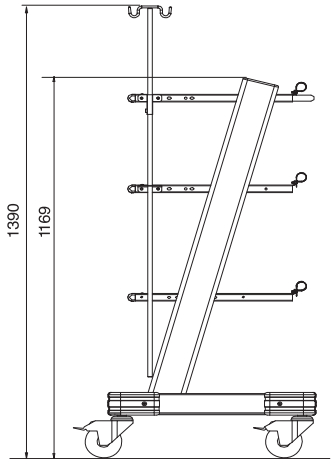
- Height .....1169 mm
- Height (with IV pole).....1390 mm
- Width.....483 mm
- Depth .....656 mm
- Weight.....28 kg (unladen)

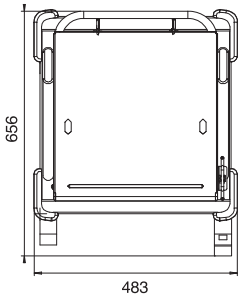
Load capacity

- Top shelf .....20 kg
- Second shelf.....25 kg
- Third shelf .....30 kg
- Base tray .....25 kg
- IV pole .....2 kg (2x 1 l bags)
- Total load.....102 kg

Castors.....4 x 100 mm, 2 with brakes

Delivery includes:
Trolley, IV pole, securing strap





Optional Accessories

K7504082	Gas cylinder holder “MAJ-92”
K7504084	Adjustable fiberscope hanger “MAJ-94”
7500731	Adjustable IV pole kit “MH-775”
K7504080	Storage bay “MAJ-88”
K7504075	Back panel kit “MAJ-90”
K7504157	Multi socket block kit “MAJ-123“
K7503556	Mounting “MAJ-110”, for KV-5 pump collection bottle
K7504079	Mounting “MAJ-89”, for KV-5 pump
K10001078	LCD mount adapter kit “MAJ-197”

More accessories available on request.

OLYMPUS

Your Vision, Our Future

TC-C2

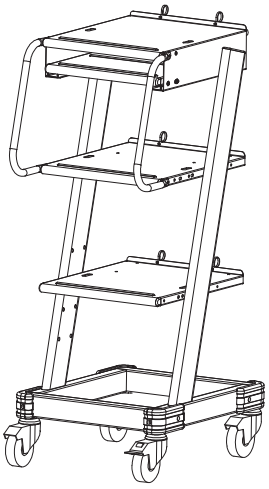
Compact Trolley

The TC-C2 is a compact trolley for use in conjunction with the Olympus VISERA system in the surgical and outpatient environment.

- Adjustable shelf – the third shelf is fully adjustable to meet individual customer's equipment requirements.
- Cable management – simply and easily achieved using cable ties at the rear of the shelves
- Pushing handle – an integral pushing handle is located at the rear for easy and convenient manoeuverability.
- Scope hanger – an adjustable height scope hanger is provided as standard
- Protective bars – designed to prevent accidental contact with camera control unit connectors
- Plug block kit – a multiway plug block kit is available reducing the number of trailing cables to the mains supply.

Compact Trolley TC-C2

K7504124 Trolley “TC-C2”,
for VISERA system,



Technical Data

Dimensions

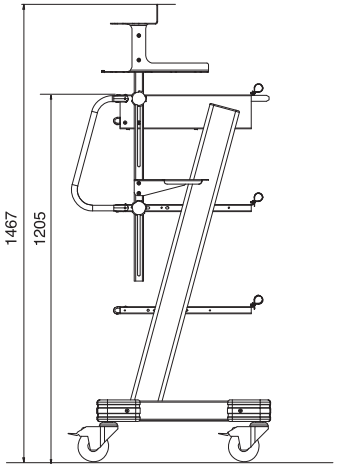
- Height .....1205 mm
- Height (with monitor tray) .....1467 mm
- Width.....563 mm
- Depth .....650 mm
- Weight.....33 kg (unladen)

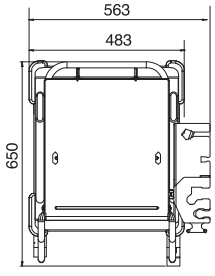
Load capacity

- Top shelf .....20 kg
- Keyboard tray .....2.2 kg
- Second shelf.....25 kg
- Third shelf .....26 kg
- Base tray .....25 kg
- Scope pole.....2.2 kg
- Total load.....100.4 kg

Castors.....4 x 100 mm, 2 with brakes

Delivery includes:
Trolley, guard rail, extending keyboard tray,
adjustable scope hanger





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