

Aesculap® Endoscopy Units and Accessories

for Minimal Invasive Surgery



Aesculap Endoscopic Technology



The following features are valid for all units:

- Universal power supply (100-240 V AC, 50/60 Hz) unless stated otherwise
- Safety class I (acc. to EN 60601-1)
- Tested acc. to norm EN 60601-1, EN 60601-1-2

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3-Chip Full HD Camera System



Full HD 3 Chip camera system with latest chip technology for brilliant image display

- Full HD image quality (1920 x 1080 pixel) provides a crystal-clear image of unprecedented quality
- Full HD camera provides 16:9 widescreen images for increased lateral image viewing
- Up to 6 times higher image resolution compared to standard cameras
- Full HD camera with advanced High-Definition-3-Chip technology produces 3-D lifelike images with outstanding depth perception
- Progressive scan technology at 50/60 frames per second provides a lag-free image
- Speciality modes produce excellent images in every situation
- Multi-speciality HD camera works with most standard endoscope
- Optical parfocal zoom (2.5x) for improved detail enhancement
- Easy operation of camera functions via integrated control buttons in the camera head
- Ergonomic camera head to support fatigue-free working
- Included accessories of PV460:
DVI-D cable (1x)

| | |
|-------|--------------------------------------|
| PV460 | Camera Control Unit only |
| PV462 | Camera head with zoomcoupler |
| PV463 | Camera head with fixed focus coupler |

| | |
|--|--|
| CCD (Inch) | 3 x 1/3" |
| Camera Resolution | 1920 x 1080 Pixel |
| Scan mode | Progressive Scan 50/60 Hz |
| Modes | 6 Presettings 3 User Settings |
| Video Signal Outputs | 2x DVI-D 1080p (50/60 Hz) 2x HD-SDI 1080i (50/60 Hz) 1x S-Video NTSC/PAL (16:9 aspect) |
| Buttons on Camera Head | 2 (5 functions) |
| Shutter Speed | 1/100 – 1/50 000 s |
| Focal length (PV462) | Optical 13-32 mm |
| Focal length (PV463) | Optical 14 mm |
| Colour Bars | Yes |
| Dimensions camera head with zoom (w x h x d) | 50 x 62 x 129 mm |
| Dimensions CCU (w x h x d) | 305 x 75 x 305 mm |
| Weight CCU | 4.1 kg |
| Weight camerahead PV462 w/o cable | 227 g |
| Weight camerahead PV463 w/o cable | 184 g |
| Length Camera Cable | 4 m |
| On-screen Display | Yes |
| Maximum Power Consumption | 45 VA |
| Protection level acc. to EN 60601-1 | CF |
| Classification acc. to directive 93/42/EEC | I |

Accessories (to be ordered separately)

| | |
|-------|--|
| OP942 | Communication cable between CCU and LED light source |
|-------|--|

3-Chip Camera System

Aesculap Endoscopic Technology

Camera Systems



High-end fully digital camera technology

- Fully digital image documentation and display for outstanding results
- Digital signal processing in the camera control unit for high contrast
- Additional analog video signal outputs for looping through the camera video signal to the analog monitor
- The three highly sensitive CCD chips produce true color rendition
- Extremely high light sensitivity for outstanding image luminosity
- Easy operation of camera functions via integrated control button in the camera head
- Ergonomic camera head to support fatigue-free working
- Integrated gain function for automatic brightness adjustment especially in critical light situations
- Special modes (e.g. Lap, Arthro, Small Scope and Fiber mode) produce high quality images in every situation
- Integrated digital zoom function (2x zoom) and optional mechanical zoom (2x)
- Included accessories:
S-Video cable (1x)

PV420* PAL System, complete

PV422* NTSC System, complete

| | |
|--|---|
| CCD (Inch) | 3 x 1/2" |
| Horizontal Resolution (Lines) | > 800 |
| Dynamic Gain Function | On/Off Selection, 0 - 9 dB |
| Detail Enhancement Function | Always "On" except Fibre Mode |
| Signal to Noise Ratio | 62 dB |
| Minimum Light Sensitivity | 0.2 Lx |
| Signal Processing | Digital |
| Modes | Laparoscopy (High) Arthroscopy (Medium) Small Scope (Low) Fibre Mode |
| Video Signal Outputs | Composite, 2 x Y/C, RGB, SDI |
| Buttons on Camera Head | 1 (Dual activation) |
| Button Functions | 1 x Remote, 1 x White Balance or Digital Zoom |
| Endolens | Exchangeable |
| Shutter Speed | 1/50 – 1/10 000 s |
| Zoom Functions | Optical & Digital |
| Colour Bars | Yes |
| Dimensions camera head (w x h x d) | 45 x 57 x 53 mm |
| Weight Camera Head w/o Endolens | 113 g |
| Dimensions CCU (w x h x d) | 305 x 75 x 305 mm |
| Weight CCU | 4.5 kg |
| Length Camera Cable | 3 m |
| On-screen Display | Yes |
| Maximum Power Consumption | 55 VA |
| Protection level acc. to EN 60601-1 | CF |
| Classification acc. to directive 93/42/EEC | I |

Accessories (to be ordered separately)

Endolens only for PV420/PV422

| | |
|--------|--|
| PV118 | Beamsplitter, f = 28 mm, C-mount, free spinning, focusable |
| PV123S | Endolens, f = 30 mm, focusable |
| PV124S | Zoom-Endolens, f = 25-50 mm, focusable |

*) Without Endolens

3-Chip Camera System



The standard camera for natural colors and clear images

- The three highly sensitive CCD chips produce true color rendition
- Digital signal processing in the camera control unit for high contrast
- Additional analog video signal outputs for looping through the camera video signal to the monitor
- High light sensitivity for outstanding image luminosity
- Integrated gain function for automatic brightness adjustment especially in critical light situations
- Special modes (e.g. Lap, Arthro and Small Scope) produce excellent images in every situation
- Ergonomic camera head to support fatigue-free working
- Easy operation of camera functions via control buttons in the camera head
- Included accessories:
S-Video cable (1x)

| | |
|---------|-------------------------------|
| PV430* | PAL System, complete |
| PV435** | PAL System complete with zoom |
| PV432* | NTSC System, complete |

| | |
|--|---|
| CCD (Inch) | 3 x 1/3" |
| Horizontal Resolution (Lines) | 750 |
| Dynamic Gain Function | Always "On", 0 - 20 dB |
| Detail Enhancement Function | Always "On" |
| Signal to Noise Ratio | 60 dB |
| Minimum Light Sensitivity | 1 Lx |
| Signal Processing | Digital |
| Modes | Laparoscopy (High) Arthroscopy (Medium) Small Scope (Low) |
| Video Signal Outputs | Composite, 2 x Y/C, RGB |
| Buttons on Camera Head | 2 |
| Button Functions | 1 x Remote 1 x White Balance |
| Endolens (PV430 – PV432) | f=23 mm |
| Endolens (PV435) | f=18 – 45 mm |
| Shutter Speed | 1/50 – 1/100 000 s |
| Colour Bars | Yes |
| Dimensions camera head (w x h x d) | 32 x 50 x 135 mm |
| Weight Camera Head and Endolens | 200 g |
| Dimensions CCU (w x h x d) | 305 x 75 x 305 mm |
| Weight CCU | 4 kg |
| Length Camera Cable | 3 m |
| On-screen Display | Yes |
| Maximum Power Consumption | 25 VA |
| Protection level acc. to EN 60601-1 | BF |
| Classification acc. to directive 93/42/EEC | I |

*) Including Endolens

**) Including Zoom-Endolens

1-Chip Camera System

Aesculap Endoscopic Technology



The basic camera for all essential standard functions

- Digital signal processing for high contrast
- Analog video signal outputs for looping through the camera video signal to the monitor
- Natural, true color rendition
- High light sensitivity for outstanding image luminosity
- Integrated gain function for automatic brightness adjustment especially in critical light situations
- Ergonomic camera head to support fatigue-free working
- Easy operation of camera functions via control buttons in the camera head
- Included accessories:
S-Video cable (1x)

PV140* PAL System, complete




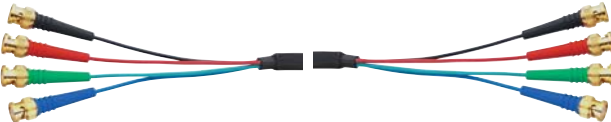





PV142* NTSC System, complete





| | |
|---|---|
| CCD (Inch) | 1/3" |
| Horizontal Resolution (Lines) | PAL 460 / NTSC 470 |
| Dynamic Gain Function | Always "On", 0 - 20 dB |
| Detail Enhancement Function | Always "On" |
| Signal to Noise Ratio | 44 dB |
| Minimum Light Sensitivity | 1 Lx |
| Signal Processing | Digital |
| Modes | Laparoscopy (High) Small Scope (Low) |
| Video Signal Outputs | Composite, Y/C |
| Buttons on Camera Head | 2 (1 x dual activation) |
| Button Functions | 1 x Remote 1 x White Balance/Small scope |
| Endolens | Fixed, f=23 mm |
| Shutter Speed | 1/50 – 1/100 000 s |
| Dimensions camera head (w x h x d) | 32 x 50 x 135 mm |
| Weight Camera Head and Endolens | 200 g |
| Dimensions CCU (w x h x d) | 100 x 63 x 200 mm |
| Weight CCU | 0.5 kg |
| Length Camera Cable | 3 m |
| Maximum Power Consumption | 10 VA |
| Protection level acc. to EN 60601-1 | BF |
| Classification acc. to directive 93/42/EEC | I |

*) Including Endolens

Camera Accessories

| | | | |
|--|--|--|--|
| | | | |
| | | | Connecting Cables (to be ordered separately) |

| | | |
|---|--|---|
|  | PV427 | SDI/Composite-Connecting cable, 1.0 m |
|  | PV963 | S-Video-Connecting cable, 2 m |
|  | PV424 | D-sub 15 Pin/4 BNC cable, 1.8 m |
|  | PV416 | 4 BNC/4 BNC Cable, 2.0 m |
|  | PV425 PV920201 PV920202 | D-sub 15 Pin/D-sub 15 Pin, 2.3 m D-sub 15 Pin/D-sub 15 Pin, 3.0 m DVI-Adapter |
|  | PV428 | Serial Connecting cable, D-sub 9 Pin, 3.0 m |
|  | PV967 | Remote control cable, 1.7 m Cinch/3.5 mm Stereo Mini Jack |
|  | PV968 | Remote control cable (for PV440 only), 2.0 m 3.5 mm/3.5 mm Stereo Mini Jack |
|  | PV436 PV820201 | DVI-D cable (for PV440 only), 2.0 m DVI-D cable (for PV440 only), 3.0 m |

| | | | |
|---|---|---|---|
|  |  |  |  |
| JG904 | JG908SU | JG910 | |

| Additional Accessories | |
|------------------------|---|
| JG904 | Sterile Camera drape, disposable, ring design package of 25 |
| JG908SU | Closed sterile camera drape, package of 10 |
| JG910 | Sterile Anti Fog Solution, package of 10 |

LED Light Source

Aesculap Endoscopic Technology



High performance LED technology for all indications

- A world's first – our light source provides an integrated measurement system for light cable transmission measurement
- LED technology provides a very high light intensity and allows an exceptional colour reproduction of the camera
- The life time of LED lamps is much longer compared to xenon lamps – a real cost saving aspect
- The light source is fully compatible to light guide cables of other make with the integrated light guide cable adapter
- The light intensity is continuously adjustable via an easy to use rotation knob
- Aesculap camera and LED light source communicate via bus system. With a push of a button the light source can go into standby (via camera head control button)
- The light cable output is equipped with an anti-dazzle protection.

OP940 LED Light Source

| | |
|--|-----------------------------|
| System | LED module |
| Light guide cable receptacle | Aesculap/Storz/Olympus/Wolf |
| Integrated Spare lamp | No |
| Lamp Intensity Increase | Continuously |
| Maximum Power Consumption | 550 VA |
| Dimensions (w x h x d) | 305 x 125 x 305 mm |
| Weight | 7.0 kg |
| Protection level acc. to EN 60601-1 | BF |
| Classification acc. to directive 93/42/EEC | II a |

Light Sources

Accessories (to be ordered separately)

| | |
|-------|--|
| OP941 | Adapter |
| OP942 | Communication cable between CCU and LED light source |

Xenon Light Sources



180 W Light Source

- Xenon technology provides a very high light intensity and allows an exceptional colour reproduction of the camera due to the Xenon colour temperature of 6.000 K (daylight)
- Our light source sets new standards regarding the operating noise due to the integrated special "whisper ventilators"
- The light source is easy to use
- The light source design is compact and light
- The light intensity is continuously adjustable
- The life time of Xenon lamps is much longer compared to halogen lamps
- The light source is fully compatible to light guide cables of other make by using suitable adapters

OP930

AXeL 180 Xenon Light Source

| | |
|--|--------------------|
| System | Xenon |
| Light guide cable receptacle | Aesculap/Storz |
| Integrated Spare lamp | No |
| Lamp Output | 180 W |
| Lamp Voltage | 15 V/12 A |
| Lamp Intensity Increase | Continuously |
| Colour Temperature | 6000 K |
| Maximum Power Consumption | 360 VA |
| Dimensions (w x h x d) | 305 x 125 x 305 mm |
| Weight | 6.4 kg |
| Protection level acc. to EN 60601-1 | BF |
| Classification acc. to directive 93/42/EEC | II a |



300 W Light Source

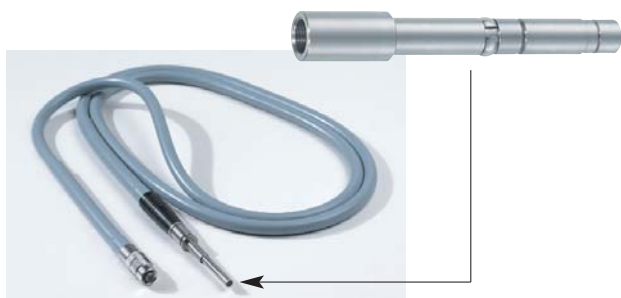
- Xenon technology provides a very high light intensity and allows an exceptional colour reproduction of the camera due to the Xenon colour temperature of 6.000 K (daylight)
- The light source is easy to use
- The light source design is compact and light
- The light intensity is continuously adjustable
- The life time of Xenon lamps is much longer compared to halogen lamps
- The light source is fully compatible to light guide cables of other make by using suitable adapters

OP932 AXeL 300 Xenon Light Source

| | |
|--|--------------------|
| System | Xenon |
| Light guide cable receptacle | Aesculap/Storz |
| Integrated Spare lamp | No |
| Lamp Output | 300 W |
| Lamp Voltage | 17 V/15 A |
| Lamp Intensity Increase | Continuously |
| Colour Temperature | 6000 K |
| Maximum Power Consumption | 550 VA |
| Dimensions (w x h x d) | 305 x 125 x 305 mm |
| Weight | 6.4 kg |
| Protection level acc. to EN 60601-1 | BF |
| Classification acc. to directive 93/42/EEC | II a |

Accessories for Xenon Light Sources

To be ordered separately



OP931 Xenon replacement bulb
180 W

OP933 Xenon replacement bulb
300 W

Adapter for Xenon light source:

OP936 Wolf

OP937 Olympus (Xenon)

OP938 ACMI

Light guide cables, autoclavable, diam. 4.8 mm:

OP923 Full HD light guide cable, length: 250 cm

OP906 Length: 180 cm

OP913 Length: 250 cm

OP914 Length: 350 cm

OP917 Light guide cables tester

Measures the light transmission of Aesculap/Storz/Olympus light guide cables with Ø 3.5 mm and 4.8 mm

Light guide cables adapter for light source of other make:

TE683R Olympus

TE688R Olympus-Xenon

TE684R Wolf



Cutting-edge Full HD documentation system

- Documents still images and/or video sequences in Full HD resolution (1920x1080 pixel)
- No need for secondary monitor if operated with 24" touch LCD monitor PV956
- Archiving of still images and video sequences on Double Layer DVD with a maximum storage capacity of 8.5 GB
- Very easy operation via camera head, mouse or touch screen monitor
- Can be integrated into any existing endoscopy tower
- Image data storage on DVD/CD-ROM, USB, hard drive or network after procedure. Burning on the fly (live recording) for Full HD images and video optionally
- Captures still images during video recording
- Search function for display of existing patient data
- Equipped with common video input and output types
- Fully network-compatible
- Data printout through local printer/net work printer
- Optional DICOM 3.0 compatibility
- Multi patient selection for copying, printing or deleting multiple patients in one process
- Included accessories:
 - DVI cable (1x)
 - HD-SDI cable (1x1 m, 1x3 m)
 - Optical USB mouse (1x)
 - Serial cable
 - Remote control cable
 - CD with MPEG-2 Codec (1x)

PV840 Eddy Full HD Digital Documentation System

| | |
|--|---|
| DVD System | DVD-R/-RW; DVD+R/+RW; DVD-RAM; DVD-RDL/+RDL |
| Full HD resolution | 1920x1080 pixel |
| Double Layer Drive | Yes |
| Still image format Full HD | JPEG, Bitmap |
| Video format Full HD | MPEG-2 |
| Number of MPEG-2 compression rates | 3 (high quality, standard, long play) |
| Capturing of video sequence | On hard drive, DVD/CD, USB or network |
| Video Signal Inputs | 1 x HD-SDI |
| Video Signal Outputs | 1 x DVI-D, 1 x HD-SDI |
| Other Ports | 6 x USB 2.0; 2 x USB 3.0 1 x RJ45 for Network 1 x 3.5 mm jack socket (Remote function) 1 x RS232 (9 pin D-sub) |
| System | Intel® Processor, 2 GB RAM |
| Hard drive capacity | 500 GB |
| Operating System | Windows® XP embedded |
| Maximum Power Consumption | 180 VA |
| Dimensions (w x h x d) | 305 x 125 x 305 mm |
| Weight | 6.5 kg |
| Classification acc. to directive 93/42/EEC | I |

Accessories (to be ordered separately)

PV842 DICOM Upgrade Set

Documentation



Medically approved compact high-end A4 colour printer

- Archiving of still images
- Photorealistic quality prints
- Can be connected to EDDY DVD system via USB
- Laminating technology coats each print for long term storage
- Easy operation through remote pushbutton on the camera head
- Can be integrated into existing endoscopy towers
- Versatile digital video inputs and outputs
- Fast printing in A4 format



PV986 Digital A4 colour printer

| | |
|--|--|
| Interface | USB 2.0 |
| Printing method | Dye sublimation thermal printing |
| Print size A4 | 287 mm x 202 mm |
| Effective Print pixels A4 | 3400 x 2392 |
| Colour gradation | > 16.7 million colours |
| Resolution | 301 dpi |
| Printing time | approx. 76 sec. |
| Maximum Power Consumption | 320 VA |
| Dimensions (w x h x d) | 317 x 207 x 425 mm |
| Weight | 11.5 kg |
| Classification acc. to directive 93/42/EEC | I |
| Accessories included | 1 x USB cable 1 x Cleaning ribbon 2 x Paper holder CD (with printer driver) |

Accessories (to be ordered separately)

| | |
|-------|---|
| PV987 | 2 x Paper roll for 50 prints each and 2 x ink ribbon |
|-------|---|



High Quality A6 colour printer

- Slim compact design
- Archiving of still images
- Photorealistic quality
- Easy operation through remote pushbutton on the camera head
- Can be integrated into any existing endoscopy tower
- 2-split and 4-split printing modes per page
- Designed with a convenient front panel for quick and easy insertion of print media
- LED notification of data transmission and print cartridge status
- Supports HD video signals (1080i and 720p) via HD-RGB input

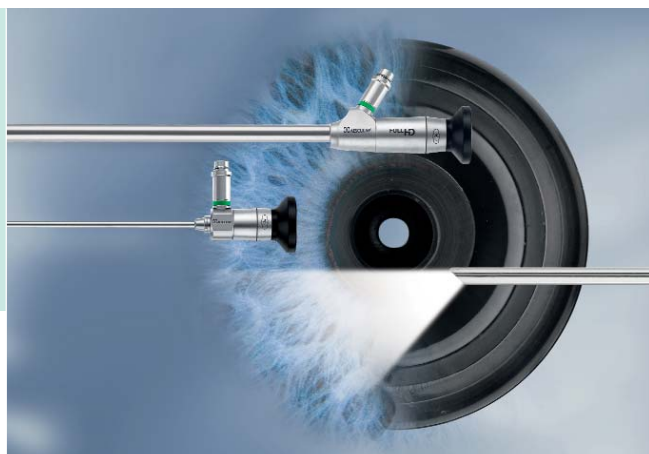
PV954 Analog A6 colour printer

| | |
|--|--|
| HDTV In/Out Signals | 1080/59.94i, 1080/50i 720/59.94p, 720/50p |
| Supported Colour Systems | PAL / NTSC |
| Printing technology | Dye sublimation |
| Paper size | 148 mm x 105 mm (DIN A 6) |
| Image size | 128 mm x 92 mm |
| Pixels | 2132 x 1600 |
| Colour gradation | > 16.7 million colours |
| Resolution | 423 dpi (dots per inch) |
| Printing time | approx. 29 sec. (PV916) |
| Video inputs | 1 x Composite 1 x S-Video 1 x RGB/RGB-HD 2 x Remote control |
| Video outputs | 1 x Composite 1 x S-Video 1 x RGB |
| Maximum Power Consumption | 240 VA |
| Dimensions (w x h x d) | 212 x 98 x 398 mm |
| Weight | 5.7 kg |
| Classification acc. to directive 93/42/EEC | I |

Accessories (to be ordered separately)

| | |
|--------------|--|
| PV916 | Paper and ink ribbon, 200 sheets, for PV914 and PV954 |
|--------------|--|

Full HD Endoscopes



Aesculap Full HD Endoscopes

- Rust-proof steel outer casing for problem-free reprocessing
- The external tube is made from a high strength special alloy for superior breaking resistance
- Enhanced fibre optics provide more light
- Service-improved construction reduces maintenance costs
- Highly rectified optical systems
- Autoclavable

Aesculap Scope Trays

- Quick lock system for easy and fast handling
- Large perforations for exceptional washing results
- Smooth surfaces
- High stability at low weight
- Made from rust-proof stainless steel

| Indication | Product Code | Description |
|---------------------|--------------|---------------------------------|
| Arthroscopy/ENT | PE185A | ENT optic |
| | PE182A | Mini arthroscope |
| | PE202A | Mini arthroscope |
| | PE225A | ENT optic |
| | PE484A | Arthroscope, short |
| | PE514A | Arthroscope, short |
| | PE524A | Arthroscope, short |
| | PE485A | Arthroscope/Sinuscope |
| | PE505A | Arthroscope/Sinuscope |
| | PE525A | Arthroscope/Sinuscope |
| Urology/Gynaecology | PE030A | Mini Hysteroscope (fibre optic) |
| | PE031A | Mini Hysteroscope |
| | PE218A | Hysteroscope |
| | PE522A | Cystoscope |
| | PE528A | Cystoscope/Hysteroscope |
| | PE508A | Cystoscope/Hysteroscope |
| | PE530A | Cystoscope |
| Laparoscopy | PE898A | Operating Laparoscope |
| | PE970A | N.O.T.E.S. Laparoscope |
| | PE590A | Laparoscope |
| | PE610A | Laparoscope |
| | PE889A | Laparoscope |
| | PE909A | Laparoscope |
| | PE969A | Laparoscope |
| Neurosurgery | PE206A | MINOP-TR Neuroscope |
| | PE184A | MINOP-TR Neuroscope |
| | PE204A | MINOP-TR Neuroscope |
| | PE486A | Neuroendoscope |
| | PE506A | Neuroendoscope |
| | PE526A | Neuroendoscope |
| | PE487A | MINOP Trend Neuroscope |
| | PE507A | MINOP Trend Neuroscope |

| Storz* connection | Diameter | Working length | Viewing angle |
|-------------------|----------|----------------|---------------|
|-------------------|----------|----------------|---------------|

Scope Trays

| | | | |
|-----|--------|-------|----|
| Yes | 2.7 mm | 19 cm | 0° |
|-----|--------|-------|----|

| | | | |
|--|--------|-------|----|
| | 2.7 mm | 11 cm | 0° |
|--|--------|-------|----|

| | | | |
|--|--------|-------|-----|
| | 2.7 mm | 11 cm | 30° |
|--|--------|-------|-----|

| | | | |
|-----|--------|-------|-----|
| Yes | 2.7 mm | 19 cm | 70° |
|-----|--------|-------|-----|

| | | | |
|--|--------|-------|----|
| | 4.0 mm | 14 cm | 0° |
|--|--------|-------|----|

| | | | |
|--|--------|-------|-----|
| | 4.0 mm | 14 cm | 30° |
|--|--------|-------|-----|

| | | | |
|--|--------|-------|-----|
| | 4.0 mm | 14 cm | 70° |
|--|--------|-------|-----|

| | | | |
|-----|--------|-------|----|
| Yes | 4.0 mm | 18 cm | 0° |
|-----|--------|-------|----|

| | | | |
|-----|--------|-------|-----|
| Yes | 4.0 mm | 18 cm | 30° |
|-----|--------|-------|-----|

| | | | |
|-----|--------|-------|-----|
| Yes | 4.0 mm | 18 cm | 70° |
|-----|--------|-------|-----|

| | | | |
|--|--------|-------|----|
| | 2.0 mm | 30 cm | 0° |
|--|--------|-------|----|

| | | | |
|--|--------|-------|-----|
| | 2.0 mm | 30 cm | 30° |
|--|--------|-------|-----|

| | | | |
|-----|--------|-------|-----|
| Yes | 2.9 mm | 30 cm | 30° |
|-----|--------|-------|-----|

| | | | |
|-----|--------|-------|----|
| Yes | 4.0 mm | 30 cm | 0° |
|-----|--------|-------|----|

| | | | |
|-----|--------|-------|-----|
| Yes | 4.0 mm | 30 cm | 12° |
|-----|--------|-------|-----|

| | | | |
|-----|--------|-------|-----|
| Yes | 4.0 mm | 30 cm | 30° |
|-----|--------|-------|-----|

| | | | |
|-----|--------|-------|-----|
| Yes | 4.0 mm | 30 cm | 70° |
|-----|--------|-------|-----|

| | | | |
|--|---------|-------|----|
| | 10.0 mm | 28 cm | 0° |
|--|---------|-------|----|

| | | | |
|--|---------|-------|-----|
| | 10.0 mm | 57 cm | 45° |
|--|---------|-------|-----|

| | | | |
|--|--------|-------|----|
| | 5.0 mm | 31 cm | 0° |
|--|--------|-------|----|

| | | | |
|--|--------|-------|-----|
| | 5.0 mm | 31 cm | 30° |
|--|--------|-------|-----|

| | | | |
|--|---------|-------|----|
| | 10.0 mm | 33 cm | 0° |
|--|---------|-------|----|

| | | | |
|--|---------|-------|-----|
| | 10.0 mm | 33 cm | 30° |
|--|---------|-------|-----|

| | | | |
|--|---------|-------|-----|
| | 10.0 mm | 33 cm | 45° |
|--|---------|-------|-----|

| | | | |
|--|--------|-------|-----|
| | 2.7 mm | 18 cm | 70° |
|--|--------|-------|-----|

| | | | |
|--|--------|-------|----|
| | 2.7 mm | 18 cm | 0° |
|--|--------|-------|----|

| | | | |
|--|--------|-------|-----|
| | 2.7 mm | 18 cm | 30° |
|--|--------|-------|-----|

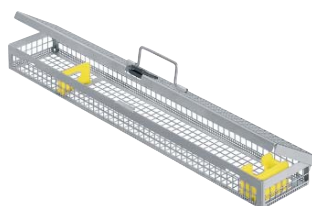
| | | | |
|--|--------|-------|----|
| | 4.0 mm | 16 cm | 0° |
|--|--------|-------|----|

| | | | |
|--|--------|-------|-----|
| | 4.0 mm | 16 cm | 30° |
|--|--------|-------|-----|

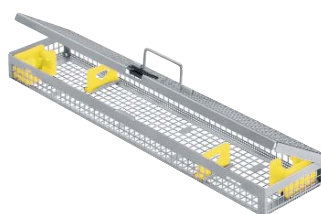
| | | | |
|--|--------|-------|-----|
| | 4.0 mm | 16 cm | 70° |
|--|--------|-------|-----|

| | | | |
|--|--------|---------|----|
| | 4.0 mm | 19.5 cm | 0° |
|--|--------|---------|----|

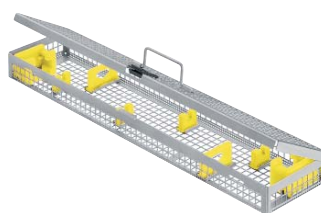
| | | | |
|--|--------|---------|-----|
| | 4.0 mm | 19.5 cm | 30° |
|--|--------|---------|-----|

**JF431R**

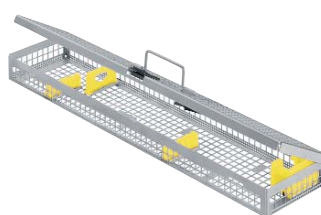
Tray for one Scope,
Shaft length < 340 mm
Outer dimensions:
454 x 84 x 41 mm

**JF432R**

Tray for two Scopes,
Shaft length < 340 mm
Outer dimensions:
454 x 104 x 41 mm

**JF433R**

Tray for two Scopes,
Shaft length < 340 mm,
with additional support
Outer dimensions:
454 x 104 x 41 mm

**JF434R**

Tray for Mini Hysteroscope,
diam. < 4 mm
Outer dimensions:
454 x 104 x 41 mm

**JF436R**

Tray for one Scope,
Shaft diam. 2.7 mm/4 mm,
Shaft length 140 – 200 mm,
Outer dimensions:
273 x 84 x 41 mm



For more information see
our brochure
C26502 Scope Container

* other makes on request

Full HD Monitors



Ultra High Definition medical monitor with bright LED backlight

- Image lag reduction for super fast video imaging (8 ms typical response time)
- Wide viewing angle (178°)
- VESA 100 mounting Standard for adaptation to monitor stand, wall or ceiling mounting
- Multilingual user menu (language, color, brightness...)
- Low power consumption
- Lightweight construction
- Space-saving design
- Automatic selection of video signal
- Multi-Modality (PIP)
- 24 V DC power input power
- Included accessories:
 - DVI cable (1x)
 - S-Video cable (1x)
 - VGA cable (1x)
 - Composite cable (1x)



PV959 26" Full HD flat panel display

| | |
|-----------------------------------|---|
| Panel Quality | Active Matrix TFT |
| Viewable Diagonal (Inches) | 26.0 |
| Max. Brightness (cd/m²) | 800 |
| Resolution (Pixel) | 1920 x 1080 (Full HD) |
| Viewing Angle Horizontal/Vertical | 178°/178° |
| Aspect Ratio | 16:9 |
| Contrast Ratio | 1000:1 (typical) |
| Video signal inputs | 2xDVI (DVI-D and DVI-i) 2xSDI/HD-SDI (BNC) RGB/HD-RGB (5 x BNC or HD-15) 2x S-Video (DIN-4 or 2 x BNC) Composite (BNC) VGA (HD-15) |
| Video signal outputs | DVI (DVI-D) SDI/HD-SDI (BNC) RGB/HD-RGB (5 x BNC or DVI-I) S-Video (DIN-4) |
| Suitable stand | PV909 (optional) |
| Maximum Power Consumption | 130 VA (typical) |
| Dimensions (w x h x d) | 673 x 418 x 88 mm |
| Weight | 8.2 kg |
| Classification acc. to directive | I 93/42/EEC |

Accessories (to be ordered separately)

| | |
|-------|---|
| PV909 | Stand for flat panel displays (100 mm VESA mounting) |
|-------|---|



High quality touch-screen flat panel monitor for live viewing and documentation

- In combination with the Eddy Full HD system PV840 this monitor can display live video and documentation in Full HD quality
- Wide viewing angle (178°)
- VESA 100 Standard for adaptation to monitor stand, wall or ceiling mounting
- Multilingual user menu (language, color, brightness ...)
- Low power consumption
- Automatic selection of video signal
- 24 V DC power input
- Included accessories:
 - S-Video cable (1x)
 - Composite cable (2x)
 - VGA cable (1x)
 - DVI cable (2x)



PV956 24" Full HD touch panel display

| | |
|--|---|
| LCD Panel | Active Matrix with In Plane Switching |
| Viewable Diagonal (Inches) | 24.0 |
| Max. Brightness (cd/m ²) | 400 |
| Resolution (Pixel) | 1920 x 1200 (Full HD) |
| Viewing Angle Horizontal/Vertical | 178°/178° |
| Aspect Ratio | 16:10 |
| Contrast Ratio | 1000:1 (typical) |
| Video Signal Inputs | 2x DVI-I (DVI-D and DVI-I) 2x HD-SDI (BNC) 1x HD-RGB (BNC x5) 1x VGA (HD-15) 1x S-Video (DIN-4) 1x Composite (BNC) |
| Video Signal Outputs | 1x DVI-D 1x HD-SDI (BNC) 1x HD-RGB (BNC x5) 1x S-Video (DIN-4) |
| Suitable stand | PV909 (optional) |
| Touch Function | Yes |
| Maximum Power Consumption | 115 VA (typical) |
| Dimensions (w x h x d) | 597 x 401 x 100 mm |
| Weight | 8.3 kg |
| Classification acc. to directive 93/42/EEC | I |

Accessories (to be ordered separately)

| | |
|--------------|---|
| PV909 | Stand for flat panel displays (100 mm VESA mounting) |
|--------------|---|

Monitors



High Definition medical monitor

- Image lag reduction for super fast video imaging (10-16 ms response time)
- Wide viewing angle (178°)
- VESA 100 Standard for adaptation to monitor stand, wall or ceiling mounting
- Multilingual user menu (language, color, brightness...)
- Low power consumption
- Lightweight construction
- Space-saving design
- Automatic selection of video signal
- Runs without fans (no bacteria spread)
- Picture-in picture (PIP)
- 24 V DC power input and output
- Included accessories:
 - DVI-D cable (1x)
 - S-Video cable (1x)
 - SXGA Video cable (1x)
 - Composite cable (1x)



PV949 19" HD flat panel display

| | |
|--|---|
| Panel Quality | With anti-reflection safety glass |
| Viewable Diagonal (Inches) | 19.1 |
| Brightness (cd/m ²) | 450 |
| Resolution (Pixel) | 1280 x 1024 (SXGA) |
| Viewing Angle Horizontal/Vertical | 178°/178° |
| Aspect Ratio | 5:4 |
| Contrast Ratio | 650:1 |
| Supported Colour Systems | PAL, NTSC |
| Video signal inputs | SDI/HD-SDI (BNC) DVI (DVI-D) RGB (4 x BNC or HD-15) S-Video (DIN-4 and 2x BNC) Composite (BNC) VGA (HD-15) |
| Video signal outputs | SDI/HD-SDI (BNC) DVI (DVI-D) RGB (4 x BNC or HD-15) S-Video (DIN-4) Composite (BNC) |
| Suitable stand | PV909 (optional) |
| Maximum Power Consumption | 65 VA |
| Dimensions (w x h x d) | 465 x 395 x 98 mm |
| Weight | 6.8 kg |
| Classification acc. to directive 93/42/EEC | I |

Accessories (to be ordered separately)

| | |
|--------------|--|
| PV909 | Stand for flat panel displays (100 mm VESA mounting) |
|--------------|--|

All Aesculap endoscopy products
on our Internet homepage:



...just a click away!

Insufflation



High-flow insufflator with central info display

- With integrated gas preheating
- Paediatric flow rate
(from 1 l to 5 l in steps of 0.5 l/min)
- Automatic overpressure gas release
- Intuitive and simple operation
- Pressure pre-selection in mmHg
- Pre-selectable flow rate
- Gas connection to gas cylinder or central supply
- Gas cylinder fill level display
- Display of gas consumption, in litres
- Info line for error messages
- Update-enabled through interface

PG080 Flow 40 – CO₂ High Flow Insufflator

| | |
|--|----------------------------------|
| Insufflation medium | Pure medical CO ₂ gas |
| Maximum gas flow | 40 l/min. |
| Pressure range | 1 – 30 mm Hg |
| User menu | 5 languages |
| Central Information Display | Yes |
| Dimensions (w x h x d) | 305 x 175 x 340 mm |
| Weight | 11 kg |
| Maximum Power Consumption | 125 VA |
| Protection level acc. to EN 60601-1 | BF |
| Classification acc. to directive 93/42/EEC | IIa |



Easy to operate basic insufflator

- Fully automatic insufflator
- Ready at a push of a button
- Pressure pre-selection in mmHg
- Display of gas consumption, in liters
- Gas cylinder fill level indicator
- Audiovisual error alarm (e.g. overpressure)

PG120 Flow 20 – CO₂ Insufflator

| | |
|--|---------------------------------|
| Insufflation medium | Pure medica CO ₂ gas |
| Maximum gas flow | 20 l/min. |
| Pressure range | 5 – 25 mm Hg |
| Dimensions (w x h x d) | 300 x 145 x 320 mm |
| Weight | 5 kg |
| Maximum Power Consumption | 34 VA |
| Protection level acc. to EN 60601-1 | BF |
| Classification acc. to directive 93/42/EEC | II a |

Insufflation Accessories

To be ordered separately



PG003

VERESS Cannula, length 100 mm, diam. 2.1 mm

PG008

VERESS Cannula, length 120 mm, diam. 2.1 mm

PG011

VERESS Cannula, length 150 mm, diam. 2.1 mm

EJ995

VERESS Cannula, length 120 mm, single use
Package of 20 pieces

EJ996

VERESS Cannula, length 150 mm, single use
Package of 20 pieces



PG086

High pressure tube, 1 m
Unit side US Connector,
Bottle side DIN Connector



PG087

High pressure tube, 1 m
Unit side US Connector,
Bottle side ISO Connector



PG088

High pressure tube, 1 m
Unit side US Connector,
Bottle side PIN Connector



PG121

High pressure tube for central gas supply,
5 m (only Flow 20)



PG083

NIST Connector for central gas supply
(only Flow 40)



PG084

High pressure tube for central gas supply,
3 m (only Flow 40)

PG085

High pressure tube for central gas supply,
5 m (only Flow 40)

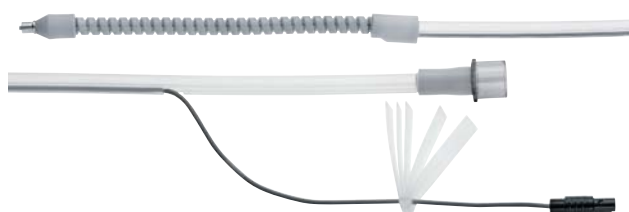
To be ordered separately



PG012 Disposable tube set incl. CO₂ filter, sterile, package of 10 pieces



PG019 Disposable CO₂ filter, sterile, package of 25 pieces



PG082 Reusable silicone tube with gas warming for PG080 only, (100 x autoclavable)



PG014 Reusable silicone tube without gas warming (20 x autoclavable)

Multi Flow Pump



PG130 Irrigation



PG145 Suction/Irrigation

High end multiindication pump

Multifunctional

- Four specialities covered by one device
- Individual irrigation and suction performance

Safety aspects

- Cutting-edge transponder technology
- Intelligent irrigation bag monitoring system
- Hygienic disposable tube sets

Very easy to operate

- Large colour display
- Sensitive touch screen
- Comprehensive tube portfolio
- Single hand tube fitting

| | |
|-------|----------------------|
| PG130 | Multi Flow Pump |
| PG145 | Multi Flow Pump Plus |

Max. flow rate/pressure

| | |
|--------------|-------------------------|
| Laparoscopy | 3.5 l/min |
| Arthroscopy | 2.5 l/min / 15-200 mmHg |
| Hysteroscopy | 0.5 l/min / 15-150 mmHg |
| Ureteroscopy | 0.5 l/min / 15-150 mmHg |

Negative suction pressure
vaccum pump (only PG145)

700 mbar

Max. suction rate

4.0 l/min

Dimensions (w x h x d)

305 x 175 x 305 mm

Weight

8.2 kg

Max. Power Consumption

90 VA

Protection level
acc. to EN 60601-1

Typ BF

Classification acc. to
directive 93/42/EEG

II b

Accessories

Aesculap Endoscopic Technology



| Art. no. | Software Transponder | pcs. per pack | LAP | ARTHRO | HYS | URO |
|----------|----------------------|---------------|-----|--------|-----|-----|
| PG140 | LAP Transponder* | 1 | ● | | | |
| PG141 | ARTHRO Transponder* | 1 | | ● | | |
| PG142 | HYS Transponder* | 1 | | | ● | |
| PG143 | URO Transponder* | 1 | | | | ● |

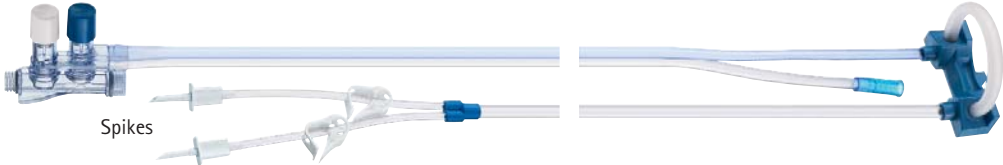
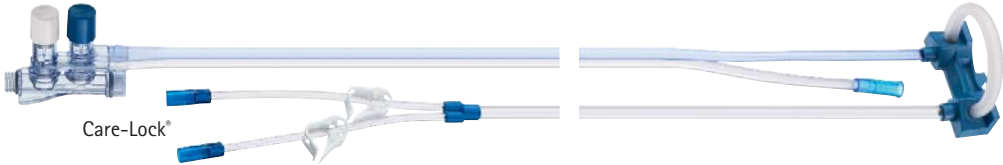
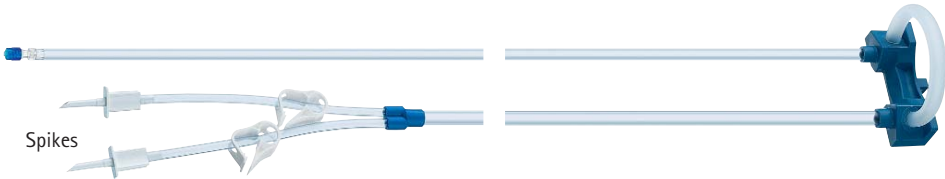
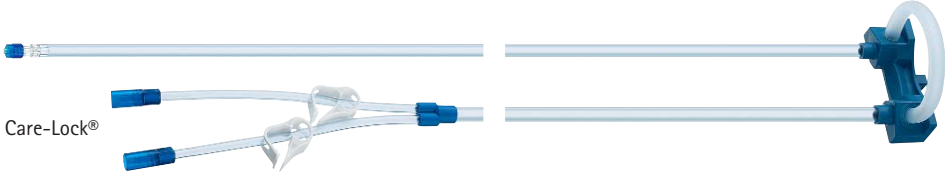

*) Every transponder is supplied with three PG132SU tubes

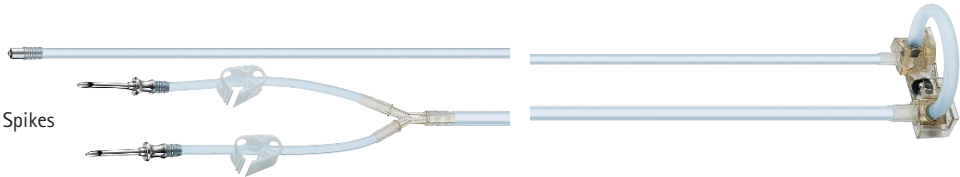
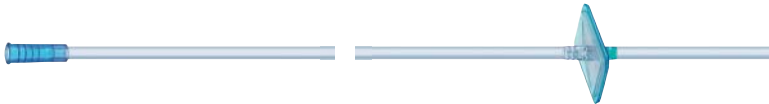






| Art. no. | Accessories | pcs. per pack | LAP | ARTHRO | HYS | URO |
|----------|---|---------------|-----|--------|-----|-----|
| PG124 | Foot control "WASH" | 1 | | ● | | |
| PG125 | Wireless remote control | 1 | ● | ● | ● | ● |
| PG126SU | Sterile cover for remote control | 10 | ● | ● | ● | ● |
| PG144 | Difference-in-volume scale, max. load: 7 kg | 1 | | | ● | |

Suction and
Irrigation

Multi Flow Pump Tube Sets

| Art. no. | Single Use Sets | Length | pcs. per pack | LAP | ARTHRO | HYS | URO |
|----------|---|--------|---------------|-----|--------|-----|-----|
| | Suction/irrigation tubing with transponder, with sution/irrigation trumpet valve handle without probe, with multi-adapter suction connector | 450 cm | 10 | ● | | | |
| PG122SU |  <p>Spikes</p> | | | | | | |
| PG123SU |  <p>Care-Lock®</p> | | | | | | |
| | Irrigation tubing with tranponder | 450 cm | 10 | ● | ● | ● | ● |
| PG132SU |  <p>Spikes</p> | | | | | | |
| PG133SU |  <p>Care-Lock®</p> | | | | | | |
| | Y-tubing | 300 cm | 10 | | ● | ● | ● |
| PG138SU |  | | | | | | |

| Art. no. | Reusable Sets | Length | pcs. per pack | LAP | ARTHRO | HYS | URO |
|----------|--|--------|---------------|-------------|-------------|-------------|-------------|
| PG131 | Irrigation tubing with transponder | 450 cm | 1 | <div></div> | <div></div> | <div></div> | <div></div> |
| | <div>Spikes</div>  | | | | | | |
| PG139 | Vacuum suction tube, with hydrophobic filter, with multi-adapter suction connector, for PG145 only | 200 cm | 10 | <div></div> | <div></div> | <div></div> | <div></div> |
| |  | | | | | | |
| Art. no. | Arthro Day Tubing Set | Length | pcs. per pack | | | | |
| PG134SU | Irrigation day tubing set with transponder | 450 cm | 10 + 1 | | | | |
| | <div>Spikes</div>  | | | | | | |
| PG135SU | Care-Lock® | | | | | | |
| |  | | | | | | |
| PG136 | Irrigation day tubing with transponder suitable for up to 10 uses within 24 hours | 165 cm | 10 | | | | |
| | <div>Spikes</div>  | | | | | | |
| PG137 | Care-Lock® | | | | | | |
| |  | | | | | | |

Irrigation



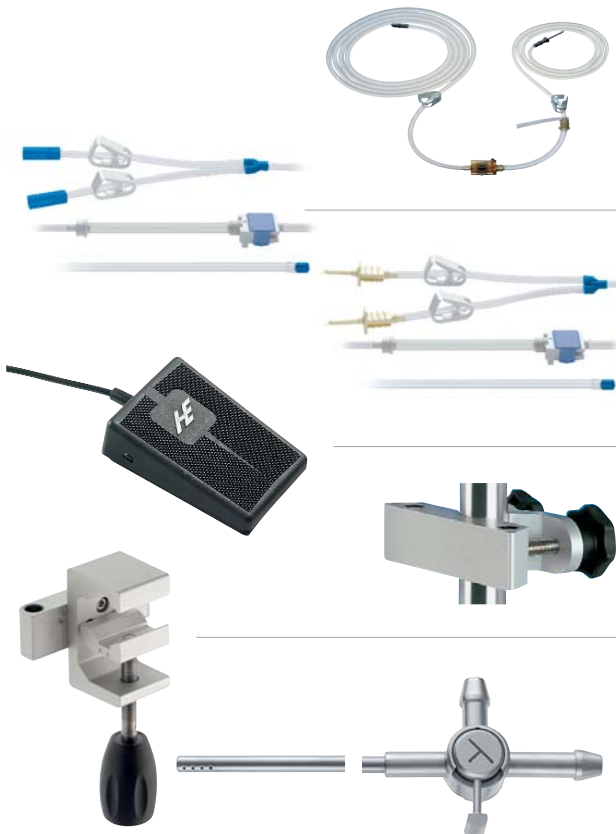
Standard irrigation pump for laparoscopy

- Very easy to operate
- Pressure-controlled pump
- Simple installation of the irrigation tube
- Reusable and single-use tube sets available
- Suction through conventional O.R. suction device
- Smart adaptation of the pump to the equipment cart
- Hand or foot controlled

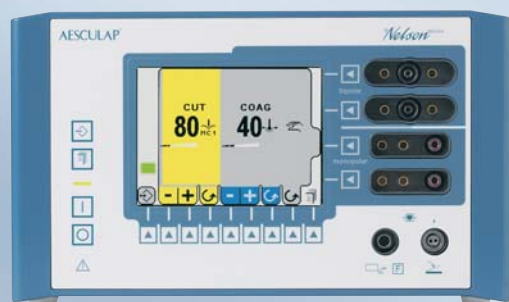
PG070 Fluid3 Irrigation Pump

| | |
|--|--------------------|
| Maximum Irrigation Rate | 1.8 l/min. |
| Maximum Pump Capacity | 400 mm Hg |
| Selectable Power Supply | 100V/115V/230V |
| Dimensions (w x h x d) | 143 x 317 x 170 mm |
| Weight | 5.5 kg |
| Maximum Power Consumption | 36 VA |
| Protection level acc. to EN 60601-1 | BF |
| Classification acc. to directive 93/42/EEC | II a |

Accessories (to be ordered separately)



| | |
|--|----------------|
| Reusable tube set (20 x autoclavable) | PG052 |
| Sterile single use inflow tubing set, PVC, with Care-Lock® connection (pack of 10) | PG072SU |
| Sterile single use inflow tubing set, PVC, with insert pins (pack of 10) | PG073SU |
| Foot switch | PG071 |
| Fluid 3 pole clamp | PG076 |
| Fluid 3 holding rail | PG078 |
| Suction-/Irrigation Instrument, diam. 5 mm, 330 mm long | PG027R |
| Suction-/Irrigation Instrument, diam. 3.5 mm, 310 mm long | PG028R |



High end electrosurgical generator

- Ready to start at the touch of a button
- Individually programmable e.g. according to indication or surgeon
- 14 memory locations
- Innovative, clearly laid out colour information display
- Monopolar and bipolar cutting and coagulation
- Freely selectable cutting quality
- Various safety features you can expect from a high end unit
- Nelson deluxe recognises coded instruments immediately
- CF protection level

GN640 Nelson® deluxe* Electrosurgical Unit

| Monopolar Output | Watt | Ohm |
|------------------|------|------|
| POWERCUT 1 | 300 | 500 |
| POWERCUT 2 | 250 | 500 |
| POWERCUT 3 | 200 | 500 |
| POWERCUT 4 | 150 | 500 |
| MICROCUT 1 + 2 | 300 | 500 |
| SEALCUT | 100 | 150 |
| SOFT COAG | 100 | 300 |
| CONTACT COAG | 120 | 500 |
| FORCED COAG | 120 | 1000 |
| SPRAY COAG | 120 | 800 |

| Bipolar Output | Watt | Ohm |
|----------------|------|-----|
| BICUT 1 | 100 | 600 |
| BICUT 2 | 100 | 100 |
| BICOAG | 100 | 100 |

| | |
|--|--------------------------|
| Maximum Power Consumption | 470 VA |
| Frequency | 447 kHz |
| Modulation frequency monopolar | 20 kHz |
| Modulation frequency bipolar | 1 kHz |
| Weight | 8.6 kg |
| Dimensions (w x h x d) | 305 x 175 x 305 mm |
| Tested acc. to norm | EN 60601-1, EN 60601-2-2 |
| Classification acc. to directive 93/42/EEC | II b |

* The product mark Nelson® deluxe is a registered mark of Aesculap AG.

Electrosurgery



Standard electrosurgical generator

- Easy operation
- Monopolar and bipolar cutting and coagulation
- Cutting quality remains constant with different tissue types
- Skin-to-plate monitoring system when using split monopolar patient electrodes
- Safe and gentle coagulation with no tissue adhesion
- No current leakage outside the bipolar application field
- Power setting can be saved in 3 memory locations
- Comprehensive safety concept
- CF protection level

GN300 Electrosurgical Unit

| Monopolar Output | Watt | Ohm |
|------------------|------|-----------|
| POWERCUT 1 | 300 | 250 - 600 |
| POWERCUT 2 | 200 | 250 - 600 |
| POWERCUT 3 | 150 | 250 - 600 |
| POWERCUT 4 | 100 | 250 - 600 |
| CONTACT COAG | 120 | 250 - 600 |
| SPRAY COAG | 80 | 700 -1200 |

| Bipolar Output | Watt | Ohm |
|----------------|------|-----------|
| BICUT | 80 | 700 -1300 |
| BICOAG | 80 | 70 - 250 |

| | |
|--|--------------------------|
| Maximum Power Consumption | 550 VA |
| Frequency | 447 kHz |
| Modulation frequency monopolar | 20 kHz |
| Modulation frequency bipolar | 1 kHz |
| Weight | 9.3 kg |
| Dimensions (w x h x d) | 305 x 155 x 305 mm |
| Tested acc. to norm | EN 60601-1, EN 60601-2-2 |
| Classification acc. to directive 93/42/EEC | I Ib |

Foot switches and accessories for electrosurgical
unit (to be ordered separately)



GN324

Double foot switch, explosion proof,
cable 4 m



GN325

Vario double foot switch, explosion proof,
cable 4 m



GN326

Lateral foot limiter, only



GN327

Transport bracket, only

Endoscopy Carts



"Metro Junior"

Standard Cart

- Applied cable management with hinges for opening the cable ducts
- Separate cable ducts for video and power cables.
- Very versatile gas cylinder holder for two gas cylinders (main and reserve), which can even be of different size.
- Novel multifunction handles for easy and controlled maneuvering
- Rear cart columns provide high stability of the equipment cart
- Modular construction for a multitude of possible variations
- Antistatic smooth-running double castors for easy maneuvering even when the cart is fully loaded
- Anti-slip shelf surface for good grip of the expensive devices on the cart
- Shelf surface with all-round safety edge, for additional slide-off protection of devices
- Solid wheel bumpers prevent damage to doors, walls and furniture
- Lockable drawer for smart storage of small parts
- Cleaning-friendly – all materials are disinfectant- and solvent-proof
- A comprehensive range of accessories offers useful solutions for everyday tasks

| Product Code | PV880 | PV881 |
|--|--|--|
| Power Supply | 220-240 V, 50-60Hz | 220-240 V, 50/60Hz |
| Maximum Allowable Current Input | 10 A | 6 A |
| IEC-320 Socket Strip (number of sockets) | 9 | 9 |
| Antistatic double-wheel castors | Yes | Yes |
| Front castors lockable | Yes | Yes |
| Cable channel with hinges | Yes | Yes |
| Dimensions (w x h x d) | 835 x 1580 x 750 mm | 835 x 1580 x 750 mm |
| Standing Area (w x d) | 560 x 440 mm | 560 x 440 mm |
| Weight (without load) | 76 kg | 89 kg |
| Maximum Load Capacity of Cart | 210 kg | 210 kg |
| Maximum Load Capacity of Shelf | 40 kg | 40 kg |
| Output Power Isolating Transformer | - | 1120 VA |
| System Monitoring | - | Integrated |
| Tested acc. to norm | EN 60601-1 EN 60601-1-1 EN 60601-1-2 | EN 60601-1 EN 60601-1-1 EN 60601-1-2 |
| Classification acc. to directive 93/42/EEC | I | I |



Integrated System Monitoring

Endoscopy Carts



"Metro Classic"

XXL Cart

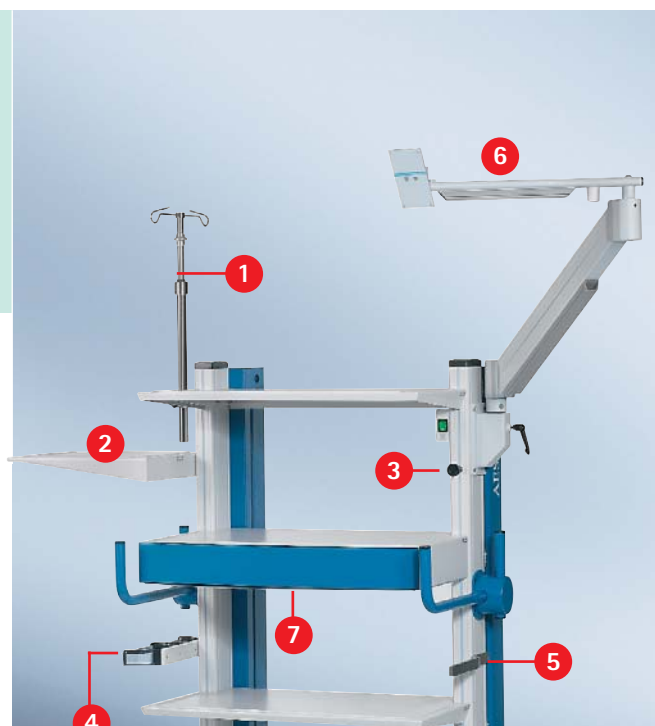
- Two devices fitting next to each other on each level
- Applied cable management with hinges for opening the cable ducts
- Separate cable ducts for video and power cables.
- Very versatile gas cylinder holder for attaching two gas cylinders (main and reserve), which can even be of different size.
- Novel multifunction handles for easy and controlled maneuvering
- Rear cart columns provide high stability of the equipment cart
- Modular construction for a multitude of possible variations
- Antistatic smooth-running double castors for easy maneuvering even when the cart is fully loaded
- Anti-slip shelf surface for good grip of the expensive devices on the cart
- Shelf surface with all-round safety edge, for additional slide-off protection of devices
- Solid wheel bumpers prevent damage to doors, walls and furniture
- Lockable drawer for smart storage of small parts
- Cleaning-friendly – all materials are disinfectant- and solvent-proof
- A comprehensive range of accessories offers practical solutions for everyday tasks

| Product Code | PV890 | PV891 |
|--|--|--|
| Power Supply | 220-240 V, 50-60Hz | 220-240 V, 50-60Hz |
| Maximum Allowable Current Input | 10 A | 12 A |
| IEC-320 Socket Strip (number of sockets) | 12 | 12 |
| Antistatic double-wheel castors | Yes | Yes |
| Front castors lockable | Yes | Yes |
| Cable channel with hinges | 2 x | 2 x |
| Dimensions (w x h x d) | 935 x 1580 x 700 mm | 935 x 1580 x 700 mm |
| Standing Area (w x d) | 710 x 440 mm | 710 x 440 mm |
| Weight (without load) | 82 kg | 95 kg |
| Maximum Load Capacity of Cart | 210 kg | 210 kg |
| Maximum Load Capacity of Shelf | 40 kg | 40 kg |
| Output Power Isolating Transformer | - | 2000 VA |
| System Monitoring | - | Integrated |
| Tested acc. to norm | EN 60601-1 EN 60601-1-1 EN 60601-1-2 | EN 60601-1 EN 60601-1-1 EN 60601-1-2 |
| Classification acc. to directive 93/42/EEC | I | I |



Integrated System Monitoring

Endoscopy Carts



Optional Accessories (to be ordered separately)

| Description | Product Code |
|-------------|--------------|
|-------------|--------------|

| | | |
|----------|--|---------------------------|
| 1 | Infusion bottle holder | PV883 |
| | Total height, adjustable (single-hand operation) | 500 – 900 mm |
| | Max. allowable load | 5 kg |
| 2 | Additional side shelf | PV886 |
| | Dimensions (W x D) | 390 x 390 mm |
| | Weight (unloaded) | 4 kg |
| | Max. allowable load | 15 kg |
| 3 | Camera holder | PV884 |
| | Dimensions (Ø x D) | 32 x 35 mm |
| | Max. allowable load | 1 kg |
| 4 | CO₂ gas cylinder holder | PV882 |
| | Cylinder diameter | 80 – 150 mm |
| | Weight (unloaded) | 2.5 kg |
| | Max. allowable load | 35 kg |
| 5 | Standard rail | PG077 |
| | Total length | 430 mm |
| | Effective length | 300 mm |
| | Weight (unloaded) | 0.8 kg |
| | Max. allowable load | 15 kg |
| 6 | Extension arm for flat panel display with VESA 100 Fixation | PV875 PV885 |
| | Weight (unloaded) | 6 kg 10 kg |
| | Adjustable load range | 4 – 8 kg 4 – 8 kg |
| | Max. extension length | 0.36 m 1.25 m |
| | Swivelling radius | 0.3 m 1 m |

Description

Product Code

7 Cart shelf with integrated keyboard drawer

Dimensions (W x H x D)

Weight (unloaded)

Max. allowable load

Suitable for

PV889

550 x 106 x 463 mm

7 kg

20 kg

PV880, PV881

**8 Second cable duct**

Dimensions (W x H x D)

Weight (unloaded)

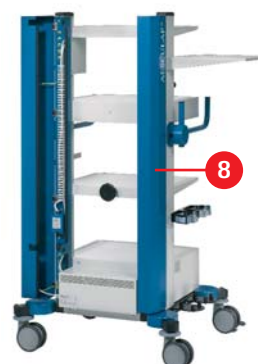
Suitable for

PV887

100 x 1340 x 155 mm

8 kg

PV880, PV881

**9 Side fixture with round tube**

Dimensions (W x H x D)

Weight (unloaded)

Max. allowable load

PV888

143 x 256 x 90 mm

1.2 kg

15 kg

**10 Power cable, 5 m, orange**

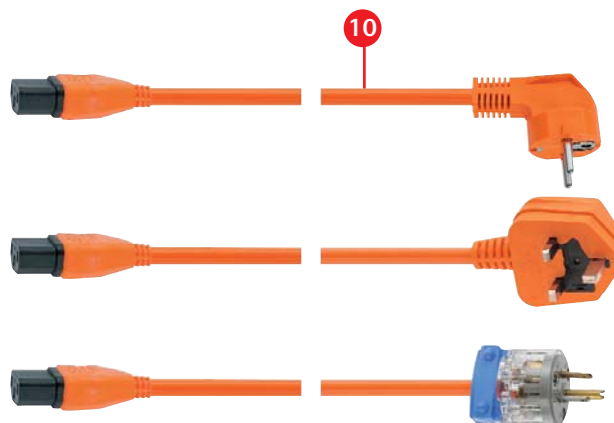
Power-Euro Plug

PV893











Great Britain/Ireland

PV894

USA/Canada/Japan

PV895

Power Cables

| On the device side | | Cables for Aesculap Endoscopy Units | |
|---|--|-------------------------------------|--|
|   | | TE780 | Euro power cable, 1.5 m |
| | | TE730 | Euro power cable, 5.0 m |
|   | | TE734 | Great Britain and Ireland, 5.0 m |
| | | | |
|   | | TE735 | USA, Canada and Japan, 3.5 m |
| | | | |
|   | | TE676 | Special power cable, IEC 60320 connector, 1.0 m |
| | | TE736 | Special power cable, IEC 60320 connector, 2.5 m (Suitable for Carts PV880, PV881, PV890, PV891) |
|   | | TA008205 | Potential equalization cable, 0.8 m |
| | | GK535 | Potential equalization cable, 4.0 m |



Surgeons carry out frequent operations which demand intensive concentration and sometimes complicated procedures. They demand equipment that gives both functional and a trouble free use, throughout their intensive work loads. Their requirements apply to an extensive range of technical equipment which include cameras, optics, insufflators, HF units and surgical instruments.

Aesculap provides a range of services, which meet preconditions demanded by hospitals today. This is achieved by utilising teams of highly qualified service and medical technicians. These teams provide information to the customer on issues such as: how to maintain the value of equipment and how to maintain the equipment.

By providing an individual and service orientated concept, customers will receive both economical maintenance and repair services that ensures the intrinsic value and functionality of these valuable assets. With financial resources now under increasingly greater scrutiny, service has become and will continue to be one the most important factors to hospitals now and in the future.

The Aesculap Service Package

Repairs

- Expertise from over 140 years of production experience
- All types of repair work carried out
- One year guarantee on all repair work

Loaner Pool

- We can provide loan equipment whilst your units are being repaired.

Pick-up and Delivery Service

- Logistics concept for all products to be repaired
- A personal service

Maintenance

- Regular on-site inspections and maintenance service of your equipment

General Contracts

- A "One-stop" SERVICE!
- Allows service budgeting
- Payment by flat-rate installments
- Transparent service costs

Sharing Expertise



Horizons of Knowledge – Competence to Master the Future

Innovative developments in the field of medical technology, sophisticated new treatment methods, increasingly more stringent requirements for hospital and quality management and, last but not least, a healthy interest in acquiring new knowledge have given rise to an enormous and ever-increasing demand for further and advanced training.

The Aesculap Academy enjoys a world-wide reputation as a leading forum for medical training and answers the demands of physicians and medical staff in OR, anaesthesia, ward, outpatient care and hospital management.

The course program comprises a wide range of hands-on workshops, management seminars and international symposia.

Aesculap Academy courses are of premium quality and are accredited by the respective medical societies and international medical organizations. A scientific advisory board guarantees the perfect selection of speakers and topics.

Our training facilities in Tuttlingen (Aesculapium) and Berlin (Langenbeck-Virchow-Haus), offer up to 10 workstations for a maximum of 20 participants. Different training modules have been developed for "dry" and "wet" lab training in laparoscopic procedures.

Intensive hands-on sessions on animal models prepare for the real case and small working teams are the ideal set-up for an intensive exchange of knowledge.

"I prefer the friendly spirit and the practice with the specimen."

"The lab is brilliant!"

"Very professional, pleasure to take part in."

"Personal instructions from faculty during wet lab session – excellent guidance!"

www.aesculap-academy.com

AESCULAP ACADEMY



Consecutive Winner 2005, 2006 & 2007

| | |
|------|--|
| 2005 | FROST & SULLIVAN |
| 2006 | FROST & SULLIVAN |
| 2007 | FROST & SULLIVAN |
| | Global Medical Professional Education Institution of the Year Award |



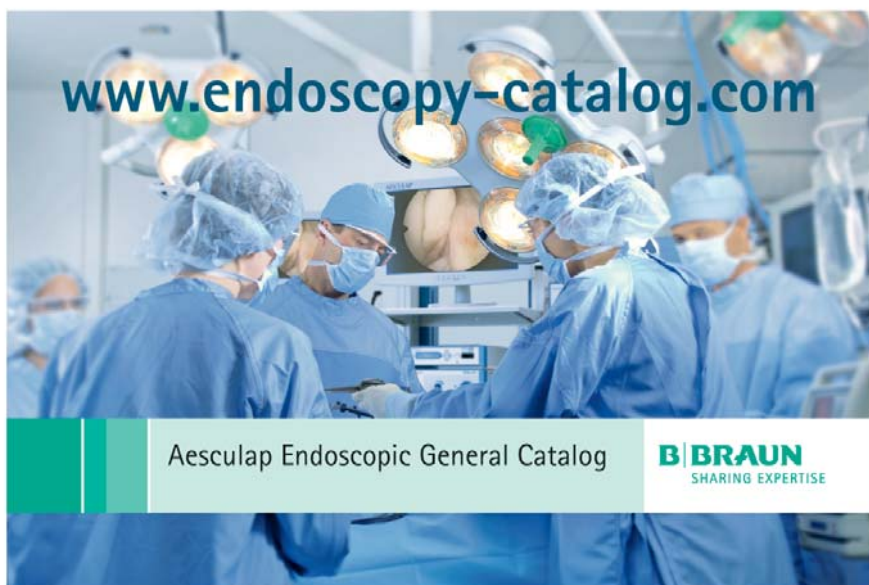
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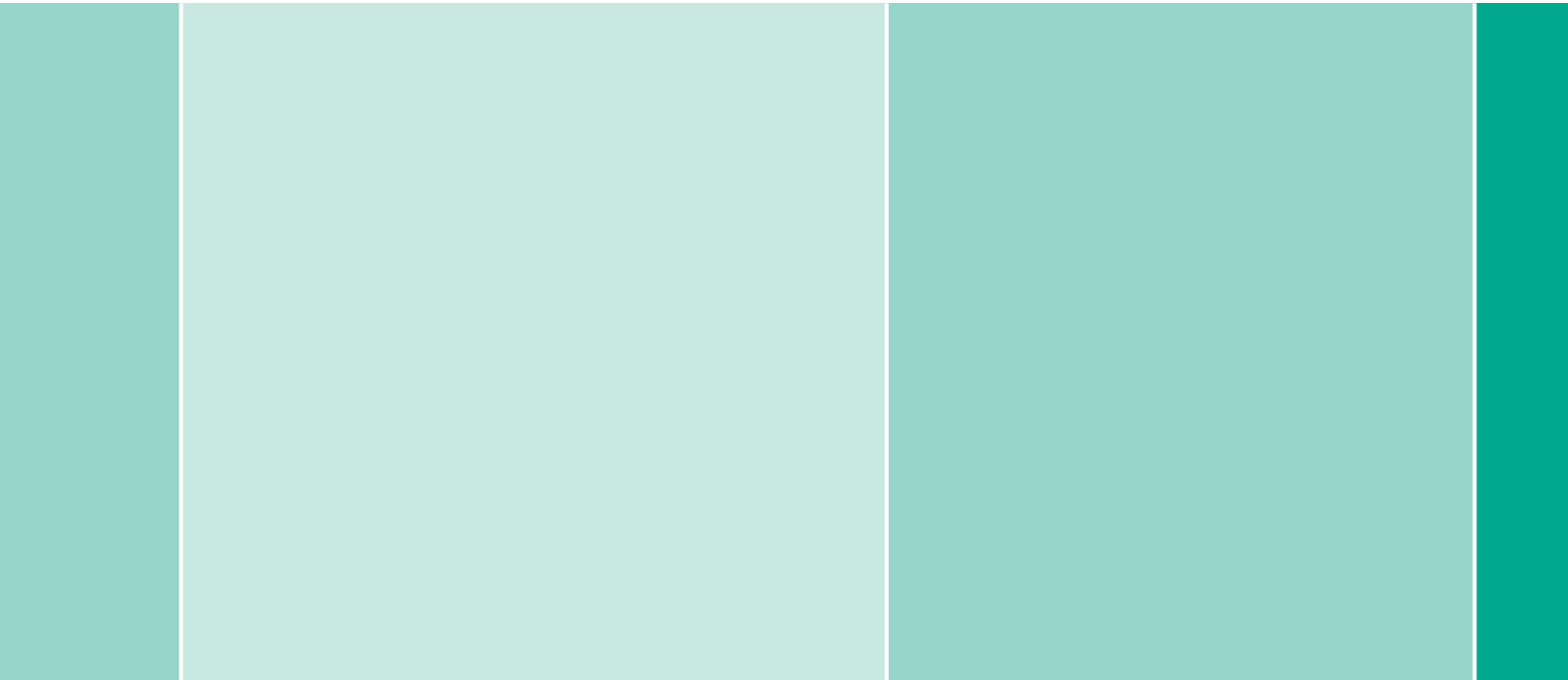
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Notice



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