



DEDICATED TO THE TRUE
PIONEERS OF SURGERY.

NEUROSURGERY

SEE MORE. STAND TALL.

Aesculap Aeos®
DIGITAL SURGICAL MICROSCOPE PLATFORM

SEE MORE

WITH THE Aesculap Aeos®.



Perfect vision is essential for neuro and spine surgery. For many decades, optical surgical microscopes have served surgeons worldwide well – but they do have certain limitations.

It's time for Aesculap Aeos® ...

... Superior field of view & depth of field

- 16:9 aspect ratio for 50% more information at a glance compared to a round image
- Superior depth of field for more information at once

... Improved teamwork and teaching

- Multiple monitor capabilities during surgery provides the surgeon and the entire OR team with the same image quality
- Seeing the same allows for better teamwork and teaching

... Superior illumination of deep and narrow cavities

- Illumination is coaxially aligned with optical path
- Light sensitive High Dynamic Range (HDR) sensors reduce the need for high light outputs causing heat
- LED technology contributes to a cool operative field

... 10x optical zoom & digital imaging

- 10x PURE optical zoom. Enjoy full resolution at any zoom level
- Up to 95x magnification on the 4K 3D 55" monitor
- High Dynamic Range (HDR) imaging
- Five digital image modes enable enhanced surgical views
- Visualize a second digital source on the same monitor at the press of a camera button

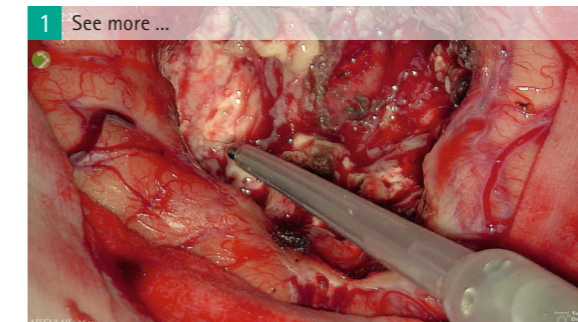


Fig. 1, 4, 5:
Courtesy of ass. Prof. Radim Lipina, University Hospital Ostrava

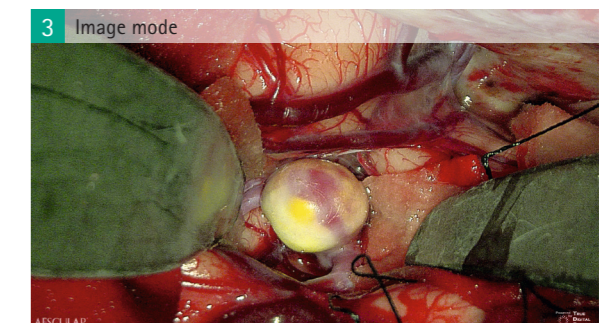
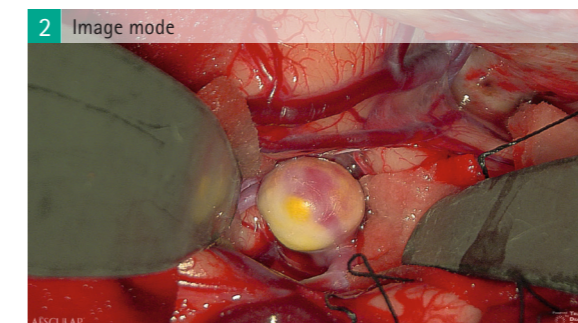
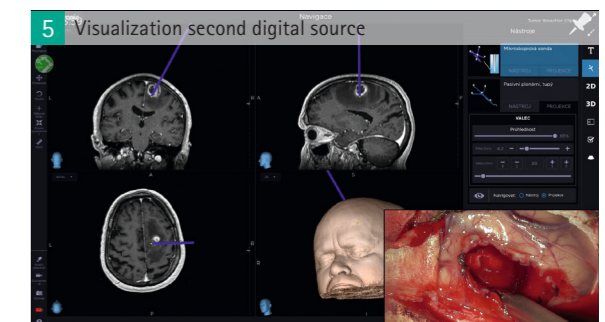
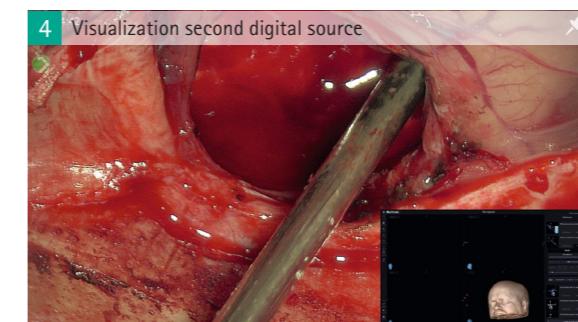


Fig. 2, 3:
Courtesy of Prof. Dr. Jürgen Konczalla, University Hospital Frankfurt



SEE MORE

WITH THE Aesculap Aeos®.

Aesculap Aeos® offers visualization beyond the human eye. LED powered 3D fluorescence modes for vascular and tumor surgery allow to see more...



... Backlight Illuminated 3D ICG Fluorescence

- Digital InfraRed 800
- 3D ICG Fluorescence Visualization on Surgical monitor with optional backlight illumination to visualize surrounding structures
- Playback with slow-motion

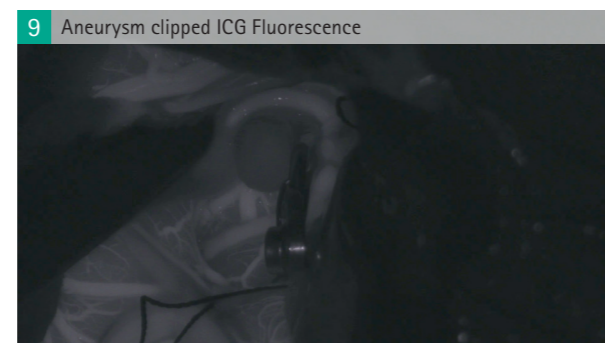
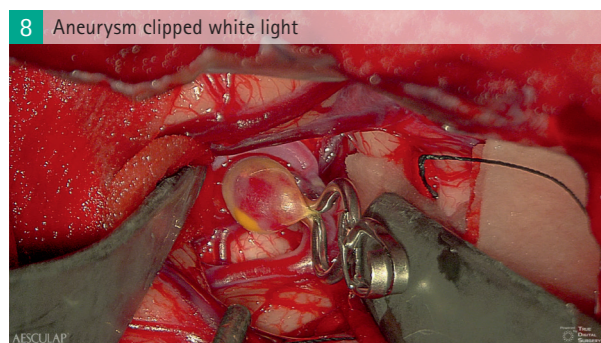
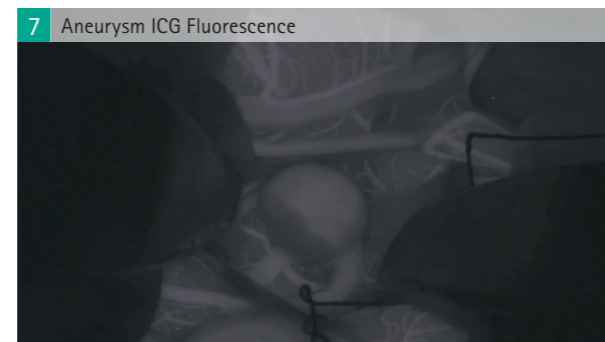
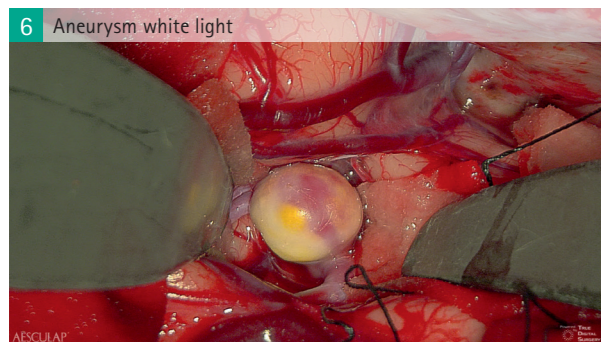
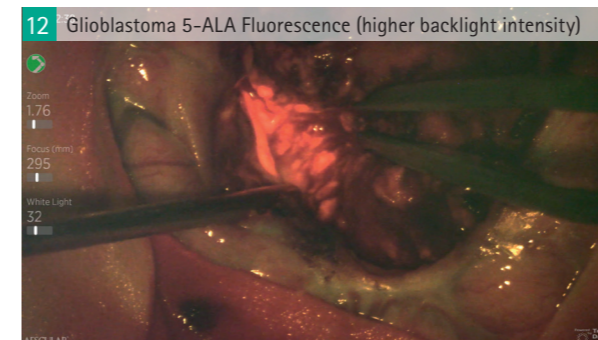
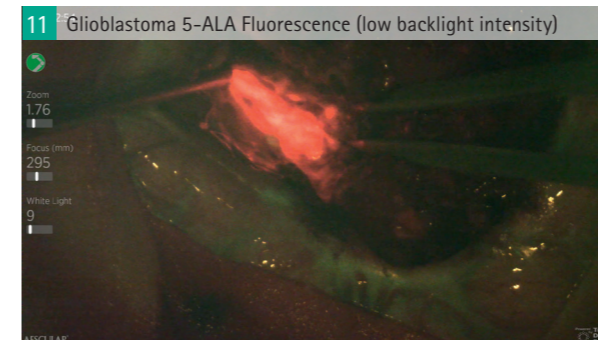
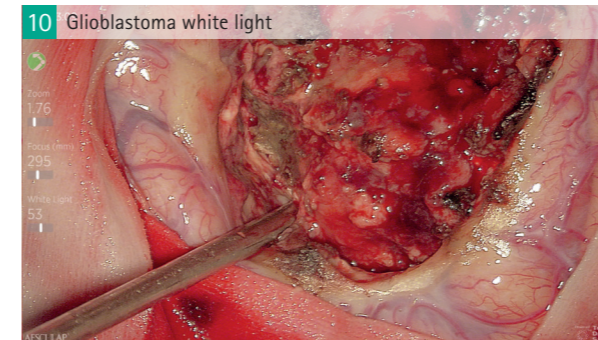


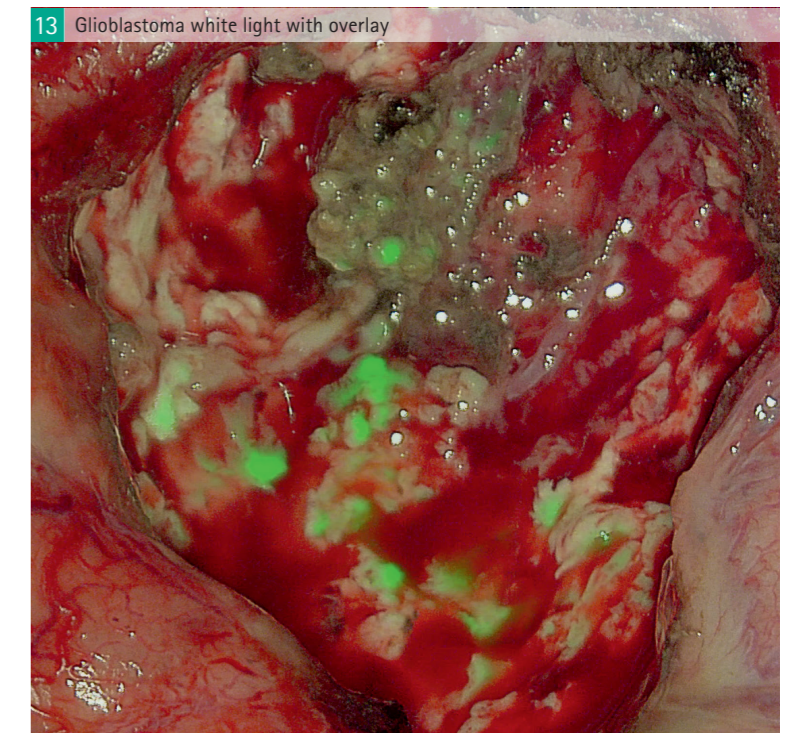
Fig. 6-9: Courtesy of Prof. Dr. Jürgen Konzalla, University Hospital Frankfurt



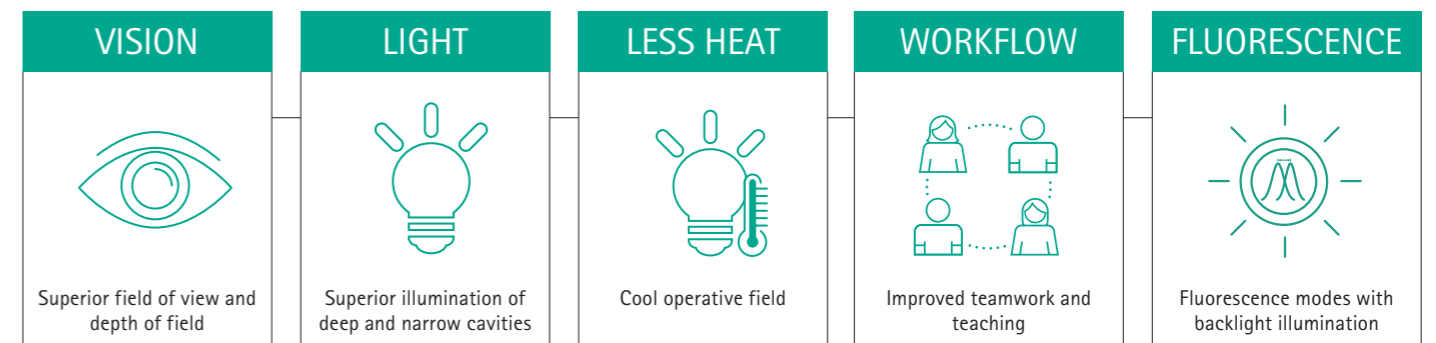
... Backlight Illuminated 3D 5-ALA Fluorescence

- Digital UltraViolet 400
- 3D 5-ALA Fluorescence Visualization with optional backlight illumination to visualize surrounding structures
- Optional overlay

Fig. 10-13: Courtesy of ass. Prof. Radim Lipina, University Hospital Ostrava



» Your benefits at a glance:



STAND TALL AND BE EFFICIENT

WITH THE Aesculap Aeos®.

The ergonomic challenges and the inefficiency resulting mainly from repositioning and readjusting the system reflect further challenges of optical microscopes.

It's time for Aesculap Aeos® ...



... Ergonomic Heads-Up surgery

- Unrestricted, unobstructed view allows the surgeon, not the microscope, to determine ergonomics
- Integrated boom arm (optional) provides additional flexibility to position the monitor in a convenient location

Aesculap Aeos® allows for a more efficient workflow thanks to robotic-assisted features ...



... Robotic-Assisted precision

- Efficient robotic-assisted positioning
- Hands-free positioning (whole arm range)
- Sub-millimeter precision
- Semi-automated positioning: Lock-on-target, Waypoints, Vector Movements
- Post-movement autofocus
- Hand, foot and touchscreen controls

... Keeping cool regarding costs

- No running costs for illumination due to LEDs with average lifetime of 50.000 h for White Light AND Fluorescence

Fig. 14: Lock on target: Pivot around a fixed focal point

» Your benefits at a glance:

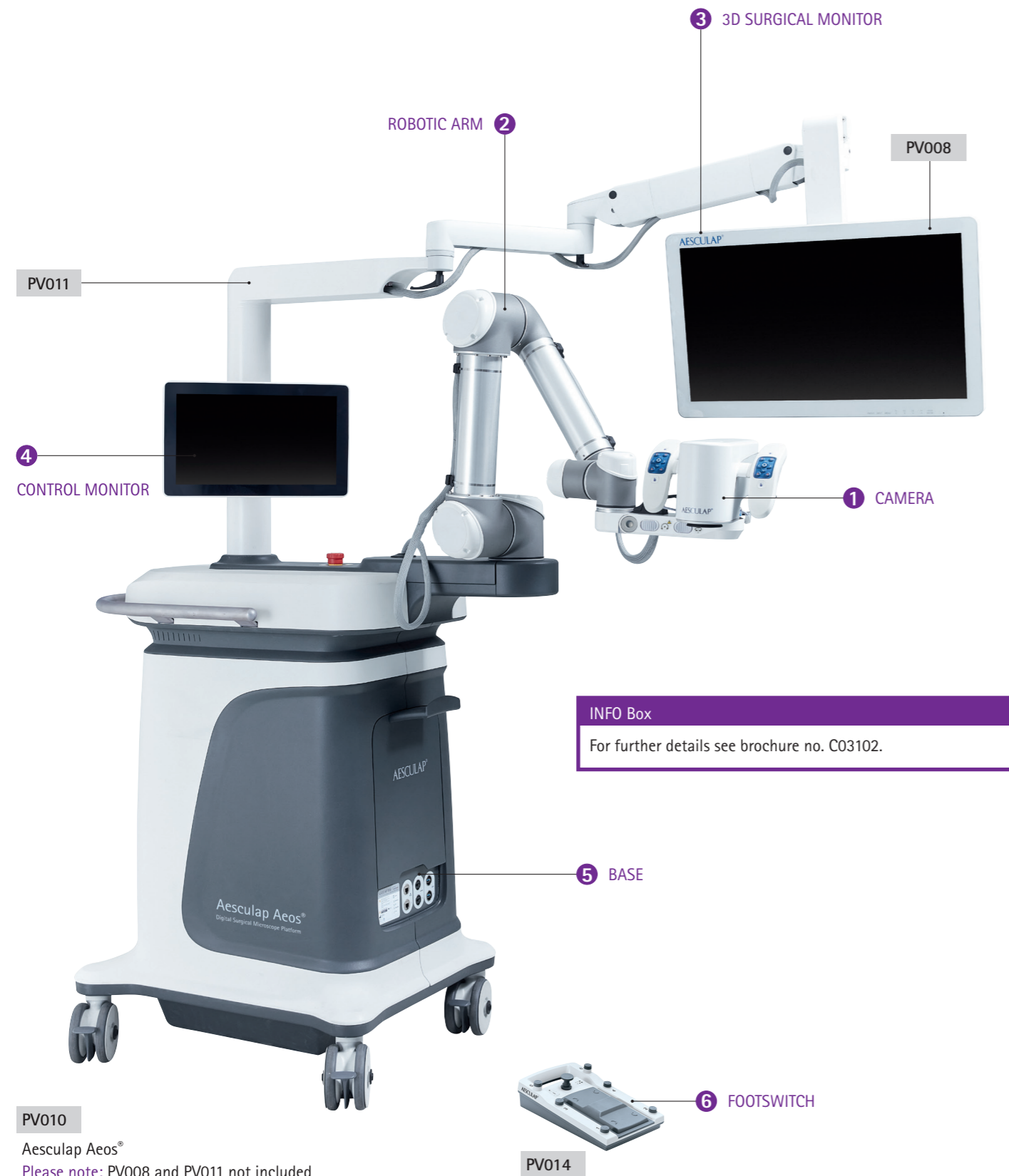
ERGONOMICS	ROBOTICS	LESS COSTS
<p>Heads-up surgery</p>	<p>Efficient robotic-assisted features</p>	<p>LED illumination</p>



Fig. 15-17: Waypoints: Seamlessly return to a previously saved location, including zoom and focus

VISUALIZATION

Aesculap Aeos® - DIGITAL SURGICAL MICROSCOPE PLATFORM.



PV010
Aesculap Aeos®
Please note: PV008 and PV011 not included

PV014
FOOTSWITCH

- 1**
CAMERA
 - | 10 x Optical zoom
 - | Working distance 200 – 450 mm
 - | HDR imaging
 - | Coaxial direct LED illumination
 - | 3D backlight illuminated fluorescence (optional)
- 2**
ROBOTIC ARM
 - | 6-axis robotic arm
 - | Manual positioning
 - | Automatic / Robotic-assisted positioning
 - | Lock-on-target
 - | Waypoints
- 3**
3D SURGICAL MONITOR
 - | 26", 31", 32" and 55" models*
 - | Full HD and 4K UHD models*
 - | Passive 3D technology

*not all models integratable in base
- 4**
CONTROL MONITOR
 - | 15.6" monitor size
 - | Touchscreen
- 5**
BASE
 - | 3D surgical monitor integratable (optional)
 - | 3D recording
 - | Video outputs: HDMI, DP
 - | Video inputs: HDMI, 6G-SDI to integrate external sources such as endoscopic cameras
 - | Other interfaces: USB, Gigabit-LAN
 - | DICOM (optional)
- 6**
FOOTSWITCH
 - | Wireless / Cabled
 - | Programmable buttons
 - | Joystick

PRODUCT OVERVIEW

PV010 Aesculap Aeos®	PV014 Footswitch, wireless	PV012SU Sterile Drape, PAK = Package of 5 pieces
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SURGICAL MONITORS AND MONITOR STANDS

PV011 Upgrade kit for 3D monitor integration (PV008)	PV008 26" Full HD 3D monitor	
PV016 55" Mobile monitor stand	PV061 55" Height-adjustable mobile monitor stand	PV015 55" 4K UHD 3D monitor
PV818 26"-32" Height-adjustable mobile monitor stand	PV644 31" 4K UHD 3D monitor	PV648 32" Full HD 3D monitor

SOFTWARE MODULES

PV022 Software module DUV 400	PV023 Software module DIR 800	PV024 Software module DICOM
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ACCESSORIES

PV030 White balance cards PAK = Package of 5 pieces	PV031 Keyboard, wireless	PV032SU Test card for DUV 400
PV033SU Test card for DIR 800, PAK = Package of 10 pieces	PV034 Locking HDMI cable, 5 m	PV035 HDMI cable, 10 m
PV052 DP-HDMI cable, 5 m	PV053 DP-HDMI cable, 10 m	PV056 DP-DVI cable, 5 m
PV057 BNC cable, 5 m	FS096 Mains cord orange, Ang./ Europe	FS097 Mains cord orange, Ang./UK
FS098 Mains cord orange, Ang./ Japan/USA/Canada	PV621 3D polarization glasses PAK = Package of 15 pieces	PV622 3D anti-fog glasses PAK = Package of 5 pieces
PV623 3D polarization glasses clip	PV624 3D eye shield glasses kit	PV969 HDMI to DVI video signal cable, 3 m
GK537 Equipotential bonding lead, 5 m		

AESCULAP® – a B. Braun brand

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