



# SEE MORE. STAND TALL.

AESCULAP

Aesculap Aeos<sup>®</sup> Digital Surgical Microscope Platform

668

ĊĮ,

G.

DEDICATED TO THE TRUE PIONEERS OF SURGERY.

## **SEE MORE** WITH THE Aesculap Aeos<sup>®</sup>.



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<sup>®</sup>.

Aesculap Aeos<sup>®</sup> 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 Konczalla, 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:



Superior field of view and depth of field



Superior illumination of deep and narrow cavities

## LESS HEAT



Cool operative field

### WORKFLOW



Improved teamwork and teaching

## FLUORESCENCE



Fluorescence modes with backlight illumination

## **STAND TALL AND BE EFFICIENT** WITH THE Aesculap Aeos<sup>®</sup>.

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®



Your benefits at a glance:

## ERGONOMICS



Heads-up surgery

### ROBOTICS



Efficient robotic-assisted features

## LESS COSTS



LED illumination

## Aesculap Aeos<sup>®</sup> allows for a more efficient workflow thanks to robotic-assisted features











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

## VISUALIZATION Aesculap Aeos<sup>®</sup> - DIGITAL SURGICAL MICROSCOPE PLATFORM.



## 0

#### **CAMERA**

- 10 x Optical zoom
- Working distance 200 450 mm
- HDR imaging а.
- 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", 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

## 6

- BASE
- 3D surgical monitor integratable (optional)
- 3D recording
- Video outputs: 12G-SDI, 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, single-use **PAK** = Package of 5 pieces

32" Full HD 3D monitor

Mobile monitor stand,

Software module DICOM

DP-HDMI cable, 5 m

DP-DVI cable, 5 m

HDMI to DVI video signal

height-adjustable (for PV015)

PV648

PV061

PV024

PV052

PV056

PV969

cable, 3 m

PV031

PR050

PV818

PV022

PV053

PV057

#### Keyboard, USB

#### SURGICAL MONITORS AND MONITOR STANDS

PV011 Upgrade kit for integration of 3D monitor (PV008/PV648)

32" 4K UHD 3D monitor

Mobile monitor stand

(for PR050 & PV008)

SOFTWARE MODULES

PV008 26" Full HD 3D monitor

PV015 55" 4K 3D monitor

PV016 Mobile monitor stand (for PV015)

PV023 Software module DIR 800

#### **CONNECTING CABLES**

DP-HDMI cable, 10 m

PV034 Locking HDMI cable, 5 m

Software module DUV 400

HDMI cable, 10 m

PV035

PV054 DP-DP cable, 10 m

PV058 12G-SDI cable, 10 m

#### MAINS CORDS

BNC cable, 5 m

FS096 Mains cord Europe

FS098 Mains cord Japan/USA/Canada

PV623 3D polarization glasses clip

PV624

3D eye shield glasses kit

White balance cards

#### **TEST CARDS**

PV030

PV032SU Test card for DUV 400, single-use

Test card for DIR 800, single-use

**PAK** = Package of 5 pieces

PV033SU

FS097 Mains cord UK

GK537

Equipotential bonding lead, 5 m

#### **GLASSES**

PV621 3D polarization glasses **PAK** = Package of 15 pieces PV622 3D anti-fog glasses

PAK = Package of 5 pieces

## AESCULAP<sup>®</sup> – a B. Braun brand

Aesculap AG | Am Aesculap-Platz | 78532 Tuttlingen | Germany Phone +49 7461 95-0 | Fax +49 7461 95-2600 | www.aesculap.com



The main product trademark "AESCULAP" and the product trademark "Aesculap Aeos" are registered trademarks of Aesculap AG.

Subject to technical changes. All rights reserved. This brochure may only be used for the exclusive purpose of obtaining information about our products. Reproduction in any form partial or otherwise is not permitted.

www.bbraun.com/ aesculapaeos