

Full HD Visual System

Camera - Light source - Documentation - Monitors



Aesculap Neurosurgery

AESCULAP[®]

Visual System Full HD



Full HD Technology

Full HD technology has quickly established itself as the standard for quality.

It has the following advantages when compared to the previously used PAL/NTSC formats:

- Up to six times higher image resolution of the camera image (1920 x 1080 pixels)
- Significantly improved contrast, sharpness and resolution resulting in true-to-life detail
- Wide-screen viewing – the Full HD 16:9 image format matches the natural field of vision
- The progressive scan image renders a smoother, reduced-noise image

Aesculap offers a compelling, total solution for Full HD imaging. The components of this system are customized to meet the most advanced HD standards. Our newest visual portfolio consists of the camera, the light source, the documentation system and monitors.

Aesculap's goal as an innovative organization is to further meet the market needs of its customers within this segment. By introducing a next generation **3-Chip Full HD Camera**, **LED Light Source** and an easily and intuitively operated **Full HD documentation system**, Aesculap has positioned itself as a leader of advanced technology within this market.

Visual System Full HD

LED light source

After having captured the consumer industry, LED technology is now also emerging in medical products and subsequently in light sources. A fundamental requirement for any endoscopic procedure is the availability of sufficient light. Possible deficiencies of used and no longer fully-functioning optics and fiber optics therefore need to be compensated.

The LED light source is characterized by the following:

- An exceedingly high light yield in conjunction with a long service life
- A universal adapter for all common fiber optics
- An innovative integrated light measurement system for fiber optics



3-Chip Full HD Camera

The camera is the centerpiece of the visual portfolio. Large amounts of image data must be processed within fractions of a second. More than six million pixels in the camera head are fed with information from inside the body and are then transmitted to the display as a high resolution image. All of these tasks can only be accomplished if the most modern technology is utilized.

The new 3-Chip Full HD Camera promises:

- State of the art technology
- Remotely controlled camera functions via the camera head
- Outstanding camera head ergonomics
- The option of controlling a new Aesculap LED light source directly via the camera



Full HD Image Reproduction

The user ultimately assesses the system quality via the display. The monitor is the last link in the video chain but it makes an essential contribution to the overall result.

Aesculap therefore believes that only the most advanced technology should be available. Any compromises, especially during image reproduction, diminish the overall quality. Aesculap displays are designed to reproduce the high-resolution image data from the camera in true-to-life colors and in a wide-screen format.

Full HD Documentation

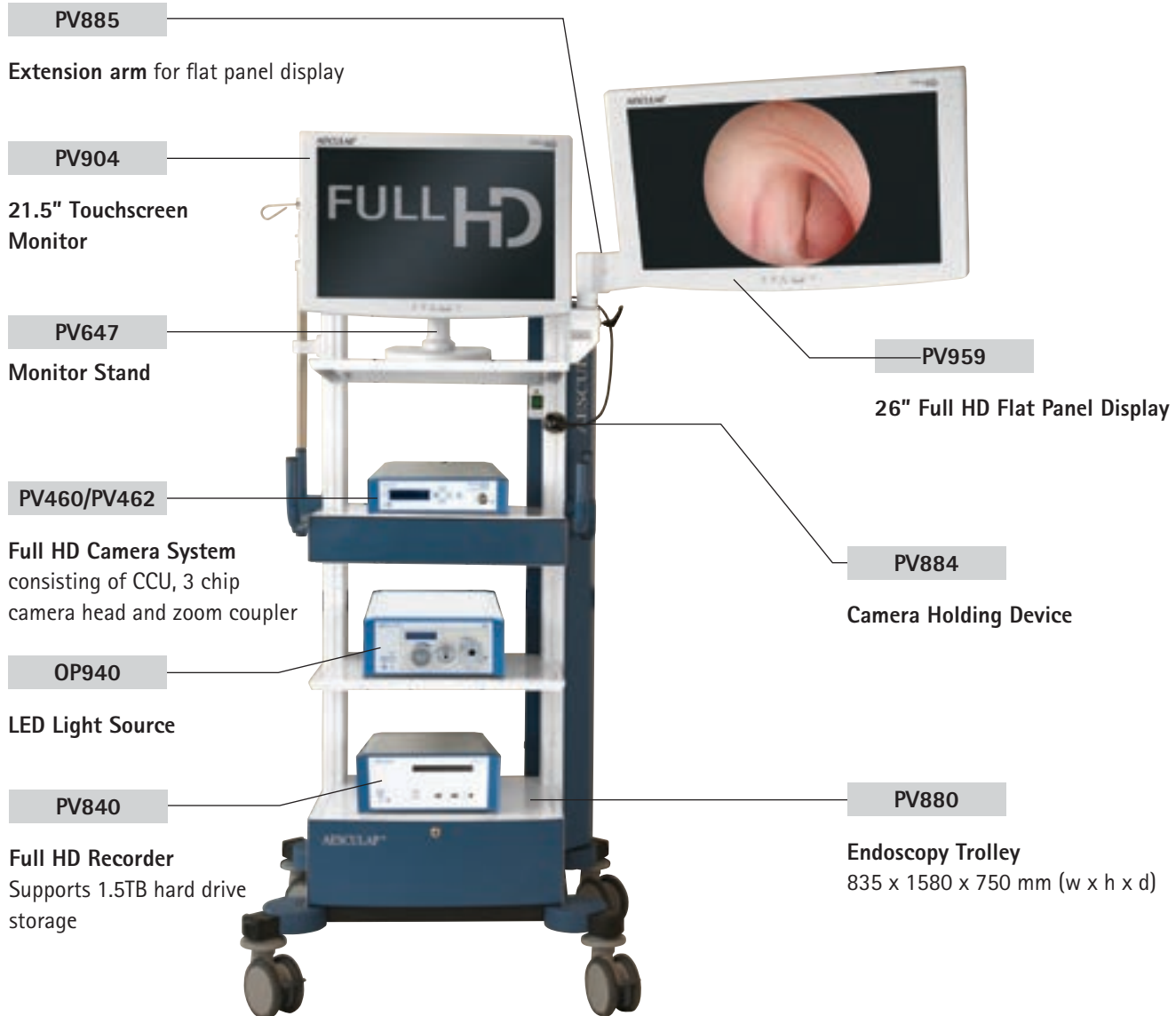
We understand that documentation and reproduction are an essential part of any surgical procedure. Aesculap provides a solution to save and reproduce Full HD images and videos.

Aesculap addresses this need with the new Eddy Full HD Documentation System.

- Record and playback in Full HD quality (1920 x 1080 pixels)
- Simple and intuitive user operation
- Image reproduction and operation via a primary monitor: a secondary monitor is no longer required

Visual System Full HD

Visual Equipment Portfolio



*Tower set-up may be customized based on surgeon preference.

■ Recently, the intraoperative use of full, high definition (HD) image quality offers a new area in endoscopic neurosurgery with an increased range of indications in minimally invasive neurosurgery. The image quality of the full-HD system is marked superior to that of a standard one- or three-chip camera unit providing a five times higher optical resolution. This superior quality is particularly important in delicate situations, namely the differentiation of subtle structures and in the case of blurred scope vision. A recording system is also an important part of the equipment for documentation of the procedure and is useful for scientific evaluation and teaching purposes. An ideal solution is a digital video system with user friendly and rapid recording, e.g. with a touch screen. ■



Nikolai Hopf, Stuttgart, Germany



Ordering Guide

Item No.	Description	Qty
PV959	26" Full HD Flat Screen Display	1
PV904	21.5" Touchscreen Monitor	1
OP940	LED Light Source	1
OP923	Light Cable	1
PV840	Full HD Recorder	1
PV460	Camera Control Unit	1
PV462	3 chip Full HD Camera with Zoom Coupler	1
PV647	Monitor Stand	1
PV436	DVI-D Connecting Cable	2
PV880	Endoscopy Trolley	1
PV884	Camera Holding Device	1
PV885	Extension Arm	1
PV889	Keyboard Drawer	1
PV895	Power Cord	1
TE676*	Power Cable, 1M	4
TE736*	Power Cable, 2.5M	1

**If a tower is not being purchased as part of this system, please replace TE676 (Qty 4) and TE736 (Qty 1) with US735 (Qty 5)*

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