

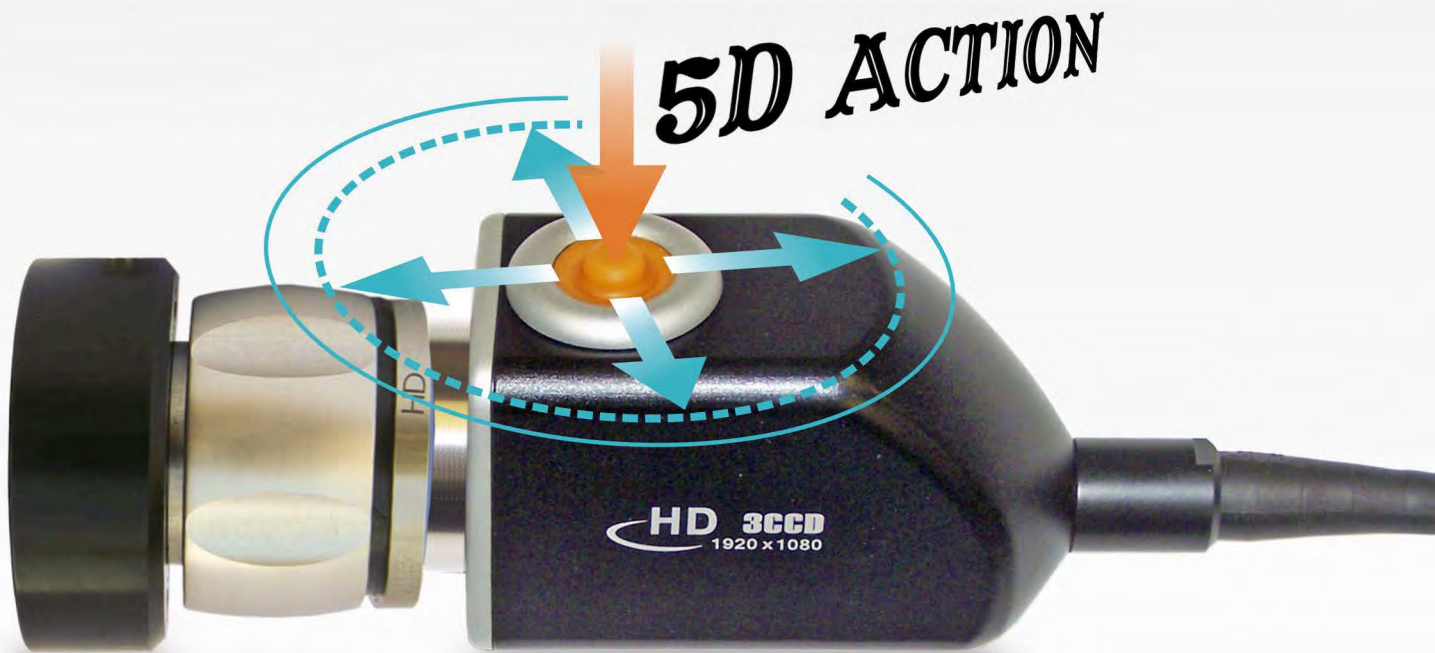


FULL HD
MADE IN GERMANY





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USB function (front- panel)—As optional :

1) The whole operation video can be saved by handle button control (acdd to USB size)

2) More than 1000 operation pictures can be saved by handle button control(acdd to USB size)

No more video recorder and video printer will be needed !!!!

ES-HD-10

Is the latest version of the real Full HD high definition video cameras which are specially for the highest demand of all endoscope applications.

With 1920x1280 pixels, and 1080P, it delivers the clearest and sharpness image quality.

With Native progressive scan, it provides the sharpest detail with incomparable natural color rendition at the highest spatial and temporal resolution.

Even the finest variations in tissue structures are distinguishable.

It will definitely enhance the capabilities of surgeons performing minimally invasive procedures. Furthermore, with the very special 5D action technology, the camera offers the greatest operation flexibility to the users.

■ Full HD

The real full HD 1080P.

■ 5D Action

5D Controlling buttons operating 10 programmable functions. (As Factory preset)

Much more convenience to save the doctors's time and easy for operation.

■ Camera Head.

Can be fully soakable to be sterilized.

■ REC Function

Via the 5D camera button on the camera head, it can realize the function of VIDEO RECORDING.

■ Surgeon Photo printing

Via the 5D camera button on the camera head, it can realize the function of SURGICAL PHOTO PRINTING through the output on backpanel.

■ Gain

Via the 5D camera button on the camera head, it can realize the function of GAIN.

■ Lightness Control

Via the 5D camera button, it can realize the function the different required lightness control.

■ HD Endoscopes

To achieve the highest level image quality. We recommend the ESSE 3 laparoscope HD Golden line.

■ OSD Menu (On – Screen- Display)

Over 10 programs can be easily adjusted via OSD MENU.

■ 16:9 High Definition monitor

To achieve the best image, we recommend NDS –ESSE 3 24 inch 16:9 Monitor.

Technical Data:

Video system :	50 Hz(EU)/60Hz(US) Mode
Image sensor:	HD 3x1/3" CCD
Scanning system:	Interlace
Output Pixels:	1920(H) x1080 (V)
Horizontal resolution	> 800TV lines Standard
Vertical resolution	> 800TV lines Standard
Minimum illumination	13 lux (F2.2, sensitivity +18dB)
Signal-to-noise ratio	≥ 54dB
White Balance :	Auto (Push Button)
Gain :	Auto/OFF/Preset
Sensitivity:	F 7.4 standard (2000lux)
Endoscopic scene files :	Laparoscope & Arthroscopy & Hysteroscope & Cystoscopy & ENT Five model can be selected
Frame rate:	50i (EU) /59.94i (US)
Output Signal:	DVI, HD-SDI, RGB, 2XBNC, 2XS-Video, RS232 (USB as optional)
Advanced settings By On Screen Display (OSD)	RS232 (on request)
Environment	0 Degree -+40 Degree Temperature Less than 90% relative humidity
Classification	CE/ BF

Camera Head

Dimensions (WXHXD) 35x43x72mm

Weight 130g

Lens Connection – C-Mount

Cable length : 3 meters

Sterilization Soakable , IPX7

Control buttons: 5D Action

Main control Unit

Dimension (WxHxD) 325x74x365mm

Weight 5.1Kg

Protection class: IP20

Line Voltage: 100-240VAC@50-60Hz

Fuse 2xT 1.0AE/250V(IEC 127)

Power tested acc.To : UL 2601-1, EN60601-1, IEC601-1-2

■ Freeze Function

Pictures freeze by button pressing

■ USB function (back panel) –As optional

USB 1: for keyboard –for patient data input

■ USB function (back panel) –As optional

USB 2: for connection Sony USB recorder (if needed)

■ USB function (back panel) –As optional

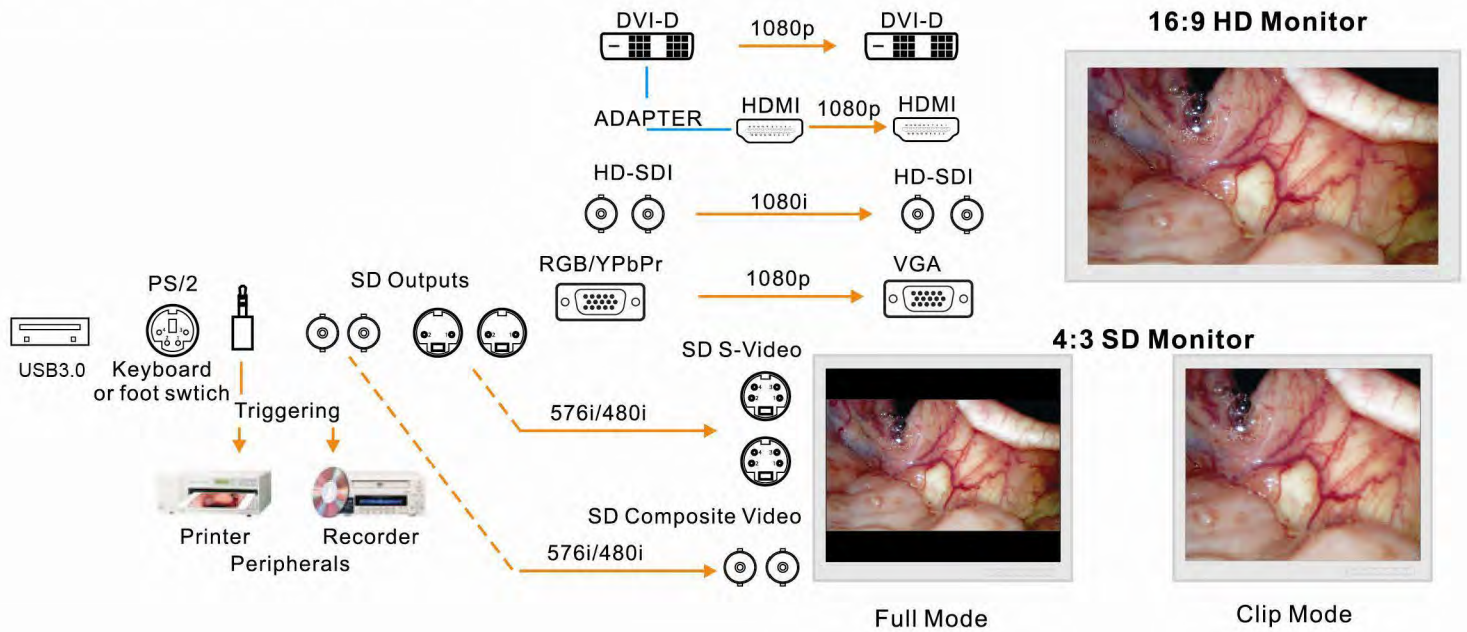
USB 3: for connection with Hard disc for more pictures and video saving.

■ USB function (front panel) –As optional

With USB memory stick, all images and videos can be stored via camera head.

Replace the function of Documentation system .

Camera Control Unit (CCU) Outputs:



- **Endoscope Mode selecting**

The camera provides five working modes,
 LAPROSCOPY → ARTHROSCOPY → CYSTOSCOPY
 →HYSTEROSCOPY → STANDARD

- **Medical washable keyboard**



- **Memory card for image saving via camera head**

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