

Fusion+ 3CMOS FullHD

Endoscopic Camera System

- **Native FullHD 1080p resolution and 3CMOS sensor**
- **Integrated USB recording and Zoom Coupler**
- **Touchless instantaneous personalization by NFC cards**
- **Compatible with FullHD and 4k scopes & monitors**



- Ackermann Fusion+ is a native 1080p FullHD 3CMOS Camera solution incl. CCU, USB recording, archive and integrated HD 15-35 mm zoom coupler
- Device calibration in less than 1 sec. with Fusion™ NFC Cards, PAL/NTSC encoding in one device
- Realtime optimization
- Preset speciality programs: LAP, ARTHRO, URO, ENT, GYN, FLEX
- 3 fully programmable buttons
- 360° monofilament camera cable connector
- Various different outputs
- **Peripheral triggerings for keyboards** and external devices
- 14 Languages – more on request
- Integrated communication with Ackermann Fusion™ LED lightsource and insufflator
- Recommended to use with screens supplied by Ackermann and Ackermann FullHD scopes

Technical Specifications

Item # 16-2091 / Fusion™ 3CMOS FullHD NTSC/PAL Camera

Camera Control Unit	
Touchscreen	7" LCD touchscreen with 16:9 format
RF transmitter	RFID; Frequency 13.56 MHz; OOK; Power 70 mW (+18dBm)
Communication	Integrated communication module; Contactless technology; Fusion Cards
Data management	Native FullHD recording with external USB storage device
User profiles	Unlimited, with up to 5 personal presets
Digital zoom	Up to 2.5 x
Functions	Automatic white balance; Compensation of defective pixels; Freeze, mirror, gain functions; Brightness, details, red and blue gains, gamma, color adjustments; Noise reduction (on/low/high) adjustments; Electronic anti-moiré filter for flexible endoscopes
Fuses	2 T2,5AL - 250 V fuses (Marked UL/CSA only)
Instructions for use	Always available on screen
Video outputs	CVBS: 1.0 V [P-P] / 75 ohms, Negative Sync; Y/C: Y: 1.0 V [P-P] / 75 ohms, C: 0.286 V [P-P] (NTSC), C: 0.3 V [P-P] V [P-P] (PAL) / 75 ohms, Negative Sync; RGB: 3 x 0.7 V [P-P] & 0.3 V [P-P] / 75 ohms; HD-SDI: 0.8 V [P-P] / 75 ohms SMPTE292M; DVI-D: 3 x 0.7 Vcc & 0.3 Vcc / 75 ohms
Dimensions	310 x 136 x 385 mm
Weight	4.3 kg
Electric power supply	100 - 230 VAC @ 50 Hz-60 Hz
Power consumption	38 - 50 VA

Camera Head	
Sensor and coupler	3CMOS technology 1/3" FullHD with integrated 15 - 35 mm HD zoom coupler
Resolution and definition	HDTV 1080p format: 1920 x 1080 pixels with 1080 lines
Buttons	3 fully programmable buttons
Electronic shutter	Automatic or adjustable (1/50 to 1/100000)
Sensor weight	270 g
Sensitivity	5 lux
Dimensions	149 x 53 mm
Cable length	3 m
Noise	54 dB