

Endoscopic Video Camera BF-VC-4K and LED Light Source BRF-L



Maximum Clarity. Complete Control. Reliable Brightness for Precise Visualization

Rating: Not Rated Yet

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Description

Endoscopic Video Camera BF-VC-4K
Maximum Clarity. Complete Control

The BF-VC-4K is an advanced endoscopic video camera supporting the 4K Ultra HD format, providing exceptionally detailed and high-contrast real-time imaging. The high resolution enables visualization of the finest tissue structures and subtle changes, improving diagnostic accuracy and ensuring safer surgical procedures. The system consists of a compact ergonomic camera head and a control unit with a touch panel. The camera supports both photo and video recording, with the option to save materials to external storage devices. The user interface allows adjustment of brightness, contrast, sharpness, saturation, white balance, and other parameters without interrupting workflow.

Compatible with various types of rigid endoscopes (laparoscope, arthroscope, hysteroscope, cystoscope, etc.). Designed for a wide range of endoscopic interventions in surgery, gynecology, urology, otolaryngology, and other medical fields.

LED Light Source BRF-L
Reliable Brightness for Precise Visualization

The BRF-L is a universal endoscopic LED light source, developed for use with a wide range of rigid and flexible endoscopes. Thanks to next-generation high-power LED modules, the device provides bright, stable, and uniform illumination without flickering or shadows — essential for accurate visualization within the surgical field.

Brightness can be smoothly adjusted manually, allowing the operator to adapt illumination to the clinical situation. The device features digital brightness indication and intuitive control.

The BRF-L integrates easily into standard endoscopic systems and is compatible with most light guides and optical adapters. An active air-cooling system ensures stable performance even during prolonged operation.

[?echnical specifications of Video Camera](#)

Endoscopy Scene Modes: 8types: Laparoscopic, ENT, Hystero-urology, Cystoscopy, Arthroscopic, PTED, Ureteral, etc.

Color Mode: Cool / Warm / Custom

Brightness/ Saturation/ Contrast/ Sharpness/ Gain Adjustment: Range 1–30 (step 1)

Noise Reduction: Range 0–15 (step 1)

Gamma Adjustment: 1.7–2.4 (step 0.1)

Dynamic Range: Range 0–15 (step 1)

Exposure Area: Global / Center metering

Freeze Function: Supported
File Playback: Supports video & picture; playback via USB
Image Adjustments: Up/Down & Left/Right shift, shift, flip options
Network Configuration: LAN file transfer & remote live view
Resolution: 1600 TVL (tolerance $\pm 30\%$)
Output Resolution: 3840 \times 2160 P (4K UHD)
Video Output Interfaces: DVI $\times 1$, HDMI 2.0 $\times 1$, SDI $\times 1$
Input Voltage / Frequency: AC 100–250 V 50/60 Hz
Power Input: 25 VA $\pm 10\%$
Protection Against Electric Shock: Class I
Liquid/Dust Protection: Main Unit IP00; Camera IP67

?technical specifications of LED Light Source

Endoscopy Scene Modes: 8types: Laparoscopic, ENT, Hystero-urology, Cystoscopy, Arthroscopic, PTED, Ureteral, etc.
LED Power: 80 W **Connector for light cable:** 10 mm
Luminous Flux: 3000 lm
Color Temperature: 5000 K
Illuminance: ? 5000 lux
LED Lifetime: ? 50,000 hours
Spectrum Range: 400 – 700 nm
Brightness Control: Manual adjustment with digital indication
Compatibility: Universal light guide connection
Safety Features: Overheat & overcurrent protection
Maintenance: Tool-free access to fuses and LED module
Cooling System: Active air cooling
Power Supply Input voltage: 230 V $\pm 10\%$, 50 Hz
Power Consumption Max input: ? 200 VA
Fuses Type and quantity: F1A 250 V $\times 2$ pcs
Display Type: LED indicator
Operating Environment: Temperature +5 $^{\circ}$ C ... +40 $^{\circ}$ C, RH ? 80 % @ 25 $^{\circ}$ C +
