

## 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  $^{\circ}\text{C}$  ... +40  $^{\circ}\text{C}$ , RH ? 80 % @ 25  $^{\circ}\text{C}$  +

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