



LED LIGHT SOURCE/ CCD VIDEO-CAMERA MODEL FLX / LED_CCD 6062



INTRODUCTION:

The light source with video camera FLX/LED_CCD 6062 R&V Medical Equipments is a state-of-the-art equipment, created to meet the demands posed by the high complexity of minimally invasive surgery today.

This equipment, designed with the most sophisticated cutting edge technology, incorporates a lighting system composed by a high-luminosity, efficient, and durable medical grade LED, which delivers 4,900 Lumens with a color temperature of 6500°K, a color reproduction index (CRI) greater than 80, and a durability of more than 45,000 hours, installed in an efficient ventilation system which maintains its temperature at an optimal level to guarantee its maximum performance, durability and light power level, being equipped with a sensor that delivers to the control system information about its surface operating temperature.

On the other hand, the equipment incorporates a camcorder with the latest technology which offers a very high sensitivity and signal to noise ratio, delivering high definition video with FULL HD progressive scan (1920 x 1080p 60Hz) through an HDMI port, designed to develop sophisticated surgical procedures of great complexity and demand level.

The high sensitivity and signal to noise ratio, of more than 50dB with high definition video, make it possible to capture images with natural colors, showing details in complicated situations due to dark and/or deep cavities with active bleeding, involved in anatomical areas difficult to illuminate, particularly intrinsic in minimally invasive surgery.

The ergonomic and lightweight camera head, incorporates a 22mm endoscopic coupler compatible with all rigid optics, and a set of control keys with which white balance can be performed, image freeze, and manage image color in two programs depending on the application.

The control unit is composed by a micro-controlled system, designed and developed with state-of-the-art technology, which incorporates a high quality and excellent visibility 5" screen, with "Touch Screen" function, which provides information and control of all variables by the user programmed, as well as starting and/or stopping the surgery video recording in an external USB memory, whose port is located at the front panel.

The excellent light source's luminic power, and the high-definition video of the video camera, make it possible to carry out highly complex and demanding surgical procedures reliably and safely, in all specialties that incorporate minimally invasive surgery, such as Gynecology, General Surgery, Orthopedics (Arthroscopy), ENT, Urology and Plastic Surgery, among others.



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* IDEAL EQUIPMENT FOR RIGID ENDOSCOPY
IN ALL SPECIALTIES.

*HIGH LUMINOSITY, EFFICIENCY
AND DURABILITY MEDICAL GRADE LED.

* HIGH DEFFINATION PROGRESSIVE SCAN VIDEO
FULL HD (1920 X 1080P 60HZ).

* FRONT PANEL USB PORT
FOR SURGICAL PROCEDURES RECORDING.



TECHNICAL FEATURES:

- ✓ Output video signal: HDMI
- ✓ Light power digital control, with 100 possible levels adjustable through the front panel 5" Touch Screen.
- ✓ START / STOP USB RECORDING control through the front panel 5" Touch Screen.
- ✓ Digital control panel with 5" screen with Touch Screen function which shows:
 - *Selected luminosity level.
 - *Actual medical grade LED state (ON / OFF).
 - *Actual video camera state (ON/OFF).
 - *LED surface temperature with alarm function and automatic shutdown in case of overheating.
- ✓ Medical grade LED with 4.900 lumens.
- ✓ Color temperature: 6500K with color rendering index (CRI) > 80.
- ✓ Medical grade LED lifetime: 45,000 hours, under normal operating conditions.
- ✓ White balance: Control key located on the camera head.
- ✓ Freeze image option (FREEZE): Control key located on the camera head.
- ✓ Two selectable color programs on the camera head.
- ✓ High definition video with FULL HD 1080p progressive scan and HDMI output.
- ✓ Electronic IRIS Control System.
- ✓ Backlight compensation system.
- ✓ Digital signal processing system.
- ✓ Incorporated USB port video recording system.
- ✓ Video recording format: MP4 with 1920 x 1080 (30i) resolution.
- ✓ Video recording file size: 8.4 GB / hour.
- ✓ Lens Mount Attachment: C-mount
- ✓ Camera cable: 2.4 meters long with great flexibility.
- ✓ Endo Coupler: 22mm with focus adjustment ring and optical system protection cover, all rigid optics compatible .
- ✓ Ffiber optic connection coupling: Storz compatible
- ✓ Operating Voltage: 110 - 220 Volts. A.C. 50 / 60 Hz.