



MCC-1000MD FULL HD MEDICAL VIDEO CAMERA

Delivering Outstanding Image Quality and Workflow Innovation

The demand for high-quality image acquisition in surgical and medical observation has been growing rapidly. High-quality images not only elevate surgical workflow, as well as conference and education applications. To accommodate this need, Sony introduces the MCC-1000MD - a medical-compliant Full HD video camera.

Sony's expertise and knowledge, accumulated over decades as a world-leading manufacturer of visual, audio, communications and information technology products, has helped to craft this camera at its best quality. The MCC-1000MD consist of a compact camera head unit that can be attached easily, either to a surgical microscope, or other compatible medical imaging systems. Images captured can be displayed on compatible monitor as a secondary view to the microscope binoculars, or recorded with medical video recorder as patient's records, training and education purposes.

FEATURES

HIGH PERFORMANCE CMOS SENSORS

Three 1/3-inch type Exmor R™ Full HD CMOS sensors, each with an effective pixel count of 1920 x 1080 with 59.94p, provide high levels of detail in all parts of the image and at all lighting conditions.

HIGH F18 SENSITIVITY

With high sensitivity, it captures more light in low-lit environment. This feature is ideal in field of medicine such as Ophthalmology.

HIGH DYNAMIC RANGE

High Dynamic Range (HDR), is the new standard for picture quality that offers a vastly expanded brightness range to deliver far more realistic, high contrast and brilliant color images.

CONTROL CAMERA HEAD REMOTELY FROM UP TO 20M

For greater operating versatility, the camera head unit and control unit can be connected over distances of up to 20m, by using an optional camera cable. Cables are available in 6m/10m/15m lengths, as well as an additional 5m extension cable. Easily recall custom picture profiles up to six different picture profiles that can be saved to memory. Custom settings can be instantly recalled from the CCU front panel to suit various applications, including use of different lamp sources.

VARIOUS CAMERA FUNCTIONS

The camera support various functions such as Auto Exposure, Knee, Digital Zoom, Picture Profile, GenLock, Image Flip, Picture Freeze and Fluorescein mode.

TWO-CAMERA SUPPORT FOR 3D SHOOTING WITH GENLOCK

Images from two MCC-1000MD units can be synchronized to allow acquisition of 3D video images. The two camera control units are able to be connected by using an optional BNC cable, via the CCU's 3D-SYNC IN/OUT connectors.

VERSATILE CONNECTION WITH WIDE RANGE OF INTERFACES

The MCC-1000MD is generously equipped with a variety of video and control interfaces. These include two 3G-SDI output, HDMI output supporting 1080/60P and 1080/50P, plus analog composite and S-Video outputs. A D-sub 9-pin connector is provided for PC control of the camera via RS-232C, while two mini-jacks allow connection of optional foot switches.

SUPPORT FOR RELEVANT MEDICAL SAFETY STANDARDS

This camera is compliant with and certified for IEC 60601-1 and product safety standards in the U.S.A., Canada, and Europe*.

* Registration status as a medical device may vary, depending on country. For more details on compliance issues, please contact your nearest Sony office or an authorized dealer.

SPECIFICATION

GENERAL	
Mass	CHU: Approx. Less than 70g
Dimension (W x H x D)	CHU: Approx. 34 x 39 x 44 mm (without projection)
	CCU: Approx. 200 x 69 x 264 mm (without projection)
Power Requirements	AC
Power Consumptions	30W
GND Terminal	Yes
Operational Temperature	-0 ~ +40 degrees C
Storage Temperature	-20 ~ +60 degrees C
Operational Humidity	20 ~ 80%RH
Storage Humidity	20 ~ 80%RH
CAMERA HEAD UNIT	
Image Device	3-chip 1/2.8-inch type Exmor CMOS
Output Picture Elements (H x V)	1920 x 1080
Lens Mount	C-Mount
Sensitivity	F18
Connector	Round shape 20 Pins
CAMERA CONTROL UNIT	
S/N Ratio	56dB
Video Format	1080/59.94P, 1080/59.4i, 480/59.94P, 480/59.94i, 1080/50P, 1080/50i, 576/50P, 576/50i
Horizontal Resolution	1000TV Lines or more
White Balance	Preset/Offset/AWB
AE Area	Full/Large/Middle/Spot/Slit
HDR	HLG/2.4 wide
Picture Flip	H/V/H+V
Electrical Zoom	Yes (1.0x, 1.1x...2.5x)
Picture Profile	6 *(WB and AE stored in each profile memory)
Remote Control	RS-232C
Picture Freeze	Yes
Color Bar	Yes (Multi format color bar, EBU75%, EBU100%)
Panel Lock Button	Yes
HD SDI Output	2
HDMI Output	1
Composite Output	1
GenLock Input & Output	1
S-Video Output	1
RS-232C	1
Foot Switch Control	2
Camera Connector (CCU)	Round type; Rear Position
Down Convert Mode	Edge Crop (Changeable Density Mode)
Fluorescein Imaging	Fluorescein (Changeable Density Mode)

* Product specifications are subject to change without notice.