

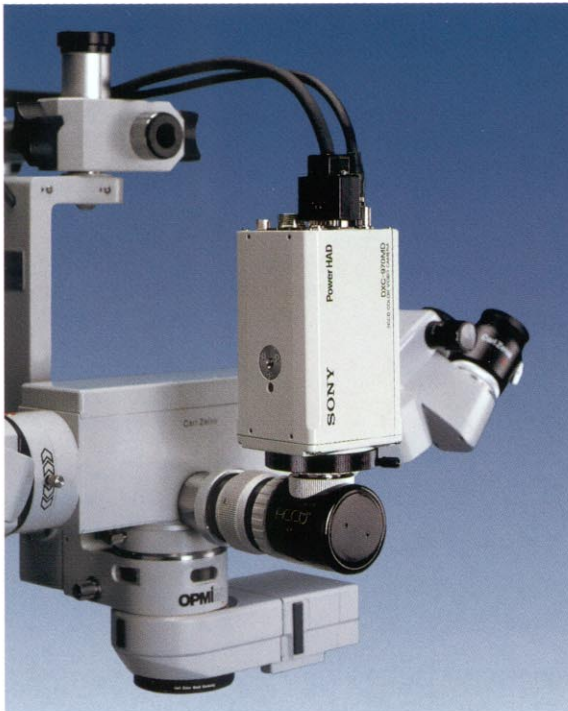
DXC-970MD

3CCD Medical Video Camera



Sony
Medical
Systems

Featuring Power HAD™ technology for enhanced sensitivity, increased resolution, Auto Exposure Light Metering and one-button printer trigger control, the DXC-970MD 3CCD Medical Video Camera is ideal for microsurgery, pathology, micro-biology, ophthalmology and general surgery applications.



Microsurgery



Laboratory Microscopy

Features

- ◆ New Power HAD CCD technology provides increased sensitivity and superior minimum illumination
- ◆ High resolution - 750 Horizontal TV Lines
- ◆ On-Screen Programmable Menu to adjust camera functions
- ◆ Printer Trigger
- ◆ UL-544 Listed (with CMA-D2MD)
- ◆ Frame integration for low light imaging and FISH applications
- ◆ Auto Exposure Light Metering
- ◆ Integrated RS-232C control
- ◆ Flash Synchronization
- ◆ User Preset: Two memories available to lock in preferred parameters

Specifications - DXC-970MD

Image device: 1/2-inch Interline
Transfer CCD (x3)

Picture elements: 768(H) x 494 (V)

Sensing area: 6.4 x 4.8mm

Signal system: NTSC standard

Scanning system: 2:1 interlaced, 525 lines

Horizontal frequency: 15.734kHz

Vertical frequency: 59.94Hz

Sync system: Internal or External with VBS, BS

Horizontal resolution: 750 TV lines

Lens mount: Sony 1/2-inch Bayonet

Sensitivity: F9.5 at 2000 lux

Minimum illumination: 5 lux (F1.4, + 18dB)

Signal-to-noise ratio: 60dB

CCD Integration Mode: Field/Frame

Gain control: AGC/0 - 18dB (1dB step)/ISO (400, 800, 1600) switchable

Electronic shutter: OFF /STEP/ Long Exp/
C Scan selectable

OFF: 1/60s

STEP: 1/100 (Flickerless mode), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (seconds)

Long Exp: 255 to 1 frame (for field mode), 256 to 2 frames (for frame mode), OFF

C Scan: 260/525 H to 1/525 H

H/SC phase control ON/OFF switchable

Phase control: Large/Medium/Spot

CCD IRIS® control: 3200K/5600K

AE Window: AWB (R/B Paint: -7 to 0 to +7)

Color Temperature: ATW (R/B Paint: -7 to 0 to +7)

White balance: MANUAL (R/B Gain: -99 to 0 to +99)

Linear Matrix: ON/OFF switchable

Shading Compensation: OFF/1 to 9

Master Pedestal: -99 to 0 to +99

Detail: -99 to 0 to +99

H. Phase: -99 to 0 to +99

SC Phase: 0/180

Fine: -99 to 0 to +99

Gamma control: ON/OFF switchable

Knee: 1/2 switchable

Sync-on-Green: ON/OFF Switchable

Memory Bank: A/B Switchable

Memory Protect: ON/OFF Switchable

Data Send: A>B/B>A Switchable

Baud Rate: 9600, 4800, 2400, 1200

Flash Mode: OFF/Master/Slave

Printer Trigger: ON/OFF Switchable

Video out: VBS: 1.0Vp-p, 75 ohms, sync negative

RGB: 0.7Vp-p, 75 ohms

Y/C Y: 1.0Vp-p, 75 ohms, sync negative

C: 0.286Vp-p, 75 ohms, without sync

Y/R-Y/B-Y: Y: 1.0 Vp-p, 75 ohms

R-Y: 0.7vp-p, 75 ohms

B-Y: 0.7vp-p, 75 ohms

Operating temperature: -5°C to 45°C (23°F to 113°F)

Storage temperature: -20°C to 60°C (-4°F to 140°F)

Power requirements: DC 12V (Supplied from CMA-D2 or CMD-D2MD) Approx. 7.8W

Power consumption: Approx. 7.8W

Dimensions: 72 (W) x 70(H) x 147(D) mm 2.875" (W) x 2.875" (H) x 5.875" (D)

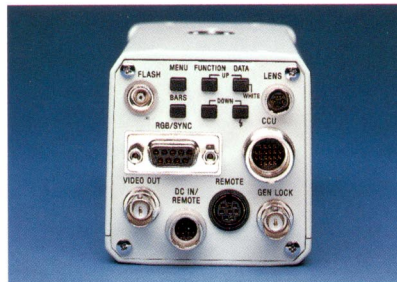
Weight: Approx. 670g (1 lb 8 oz)

Connectors: LENS (6-pin)
RGB/SYNC (D-sub 9-pin)
GENLOCK IN (BNC)
DC IN/REMOTE (12-pin)
VIDEO OUT (BNC)
CCU (20-pin)
FLASH (Synchronous socket)
REMOTE (8-pin)

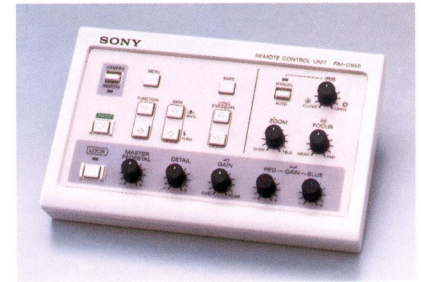
Supplied accessories: Lens mount cap (1)
Operation instructions (1)



DXC-970MD
SIDE



DXC-970MD
BACK



RM-C950

SONY®

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