



PMW-10MD Full HD Medical Grade Camera System

The PMW-10MD Full HD Medical Grade camera system combines outstanding image quality with the convenience of a built-in HD recorder. Its compact size and remote head design allow for simple integration into a wide variety of medical and scientific applications.

The camera is equipped with 3 one half-inch (1920 x 1080) Exmor™ CMOS sensors, each delivering over 2 million pixels. Although small in size, the PMW-10MD delivers a superb video image, excellent sensitivity of F10, and a remarkable signal to noise ratio of 54 dB. Combine these specifications with a high horizontal resolution of 1,000 TV lines and a wide dynamic range of 450%, the PMW-10MD stands out as one of the best camera systems available for medical applications.

- Compact camera head measures approximately 1.4" x 1.77" x 1.96"
- Designed for mounting above the OR table or on a surgical microscope using optional lenses and optical adapters
- DVI-D Output support 1080/59.94P and 1080/50P
- Built-in recorder features two modes HQ 1920 x 1080 @ 35Mbps or SP 1440 x 1080 @ 25Mb/s



Specifications

General

| | |
|------------------------|---|
| Power Requirements | AC 100 to 240 V, 50/60 Hz |
| Power Consumption | 20W Approx. |
| Operating Temperature | +32 to +104° F (0 to +40° C) |
| Dimensions (W x H x D) | Camera Head Unit: 35 x 45 x 50mm Approx. Camera Control Unit: 200 x 88 x 240mm Approx. |
| Weight | Camera Head Unit: 100g Approx. Camera Control Unit: 2.5kg Approx. |

Camera

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| Pickup Device | 3-chip 1/2-inch type Exmor Full HD CMOS |
| Effective Picture Elements | 1920 x 1080 |
| Lens Mount | C mount |
| Optical System | F2.2 prism system |
| Sensitivity (2000 lx, 89.9% reflectance) | F10 (typical) (1920 x 1080/59.94i mode) |
| Minimum Illumination | 0.14 lx (typical) (1920 x 1080/59.94i mode, F2.2, +21 dB gain, with 64-frame accumulation) |
| S/N Ratio | 54 dB (Y) (typical) |
| Horizontal Resolution | 1000 TV Lines |
| Gain | 0 to 21dB |

Recording

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|-------------------------|--|
| Recording Format | |
| Video | MPEG-2 Long GOP HQ mode: VBR, maximum bit rate: 35 Mb/s, MPEG-2 MP@HL SP mode: CBR, 25 Mb/s, MPEG-2 MP@H14 |
| Audio | Linear PCM (2ch, 16-bit, 48kHz) |
| Recording Frame Rate | |
| NTSC Setting | HQ mode: 1920 x 1080/59.94i SP mode: 1440 x 1080/59.94i |
| PAL Setting | HQ mode: 1920 x 1080/50i SP mode: 1440 x 1080/50i |
| Recording/Playback Time | |
| HQ Mode | Approx. 100 min. with SBP-32 (32 GB) memory card Approx. 50 min. with SBP-16 (16 GB) memory card Approx. 25 min. with SBP-8 (8 GB) memory card |
| SP Mode | Approx. 140 min. with SBP-32 (32 GB) memory card Approx. 70 min. with SBP-16 (16 GB) memory card Approx. 35 min. with SBP-8 (8 GB) memory card |

Still Image Recording

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|------------------|--------------------|
| Recording Format | I JPEG 1920 X 1080 |
|------------------|--------------------|

Signal Input/Output

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|------------------|----------------------------|
| MIC Input | Stereo mini-jack (x 1) |
| Composite Output | BNC (x 1) |
| S-Video Output | mini DIN 4-pin (x 1) |
| Component Output | D-Sub 15-pin (x 1) |
| DVI-D Output | DVI connector 19-pin (x 1) |
| HD SDI Output | BNC (x 2) |
| EXT SYNC Input | BNC (x 1) |
| FS,TRIG IO | Stereo mini-jack (x 1) |
| Remote | D-sub 15-pin (x1) |

Media Slot

| | |
|-----------|-------------------------|
| Type | ExpressCard/34 (x 2) |
| Interface | ExpressCard™ compatible |

Accessory

| | |
|--------------|---|
| Camera Cable | I CCMC-T05, T10, T15, T20 (One cable is required for system operation.) |
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Caution: Federal (USA) law restricts this device to sale by or on the order of a physician or other appropriately licensed medical professional. Caution: See product labeling for indications, contraindications, warnings, cautions and directions for use.

ME-PMW-10MD

Optional Accessories

- SBP-32/16/8 SxS Pro Memory Cards
- CCMC-T20/15/10/05 Camera Cables
- Kowa-LMZ 856MD Short distance HDTV Lens
- SBAC-US10 SxS Memory Card USB Reader/Writer



Camera Cables: CCMC-T05, CCMC-T10, CCMC-T15, CCMC-T20



Kowa Lens: LMZ-856MD



PMW-10MD Front Panel



PMW-10MD Rear Panel

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