

Full HDTV 3CMOS Progressive Scan Camera

MKC-700HD

The best quality image and 2x higher sensitivity



Employs full HD (1920 x 1080) 3CMOS sensors for the highest image quality (horizontal resolution 1,000 TVL, S/N 56dB) and two times higher sensitivity compared to conventional models (2,000lx/F16:LINE MIX ON), also a newly developed digital processor giving a high grade picture output. Auto image correction provides a higher contrast image without halation or black defects.

■ **Ultra Compact Camera-head**

Employs a small size optical block. Lightweight ultra compact camera head.

■ **High Quality Picture Output**

Employs a 2.2 million pixels 1/3-inch CMOS sensor, and achieved high horizontal resolution (max. 1,000 TVL) and S/N 56dB.

■ **High Sensitivity**

High level of sensitivity (2,000lx/F11). The high-sensitivity mode can be set 2x/4x higher for use in a low-light intensity environment.

■ **New Digital Processor**

Progressive processing with newly developed digital processor delivering improved resolution in detail and dynamic resolution.

■ **Image-Corrector**

Image quality in detail area, sense of resolution and modulation depth are significantly improved by the special image-corrector.

■ **Dynamic Contrast Correction (DCC)**

Newly developed gradation-corrector achieves higher contrast image without halation or black defects. Also improved contrast level in detail area.

■ **Line-addition and Pixel-addition (Binning Mode)**

In a low-light intensity environment, the line-addition process and pixel-addition each double the sensitivity and combine to achieve 4x sensitivity. (note: These functions will make resolution slightly lower.)

■ **Mirror, Flip and Rotate Function**

Digital capture allows a captured image to be flipped horizontally and vertically. Remote controllable via an external optional unit such as a foot switch.

■ **H/V Centering Function**

Optical centering position can be adjusted horizontally and vertically via this function.

■ **Digital Zoom**

Max. 4x zoom is available.

■ **Rating/Performance**

Scanning System	1080/59.94 50 Progressive
Image Pickup Device	1/3-inch, 2.2 million pixels CMOS × 3
Effective Pixels	1920(H) × 1080(V)
Lens Mount	C-mount
Sensitivity	2000lx F16/3200° K or better :LINE MIX ON
S / N	56dB (Gamma/Detail OFF)
Resolution	1000TV lines(Y)
Output Signal	HDTV : HD-SDI BNC 2ch 1920 × 1080I/P DVI 1ch 1920 × 1080I/P Down converter output SDTV : NTSC Composite: BNC 1ch, Y/C: S terminal 1ch
External Synchronization	HDTV Tri-level SYNC 1ch

■ **General**

Power Requirement	AC 100V - 240V ±10% 50/60 Hz
Power Consumption	50VA (approx.)
Operating Environment	
Temperature	0 ~ 40°C
Humidity	5 ~ 80% RH (non-condensing)
Dimension/Weight	Camera : W34 × H40 × D40mm (excluding protrusions)/100g approx. CCU : W210 × H80 × D270mm (excluding protrusions)/ 3kg or less
Camera Cable (Option)	Multi-core cable 5m + 10m

■ **Scene File**

Each correction/function setting (4 positions) can be saved and loaded easily.

■ **Level Indicator**

Video level can be checked and adjusted using a level indicator.

■ **Down Converter**

HDTV signal can be down converted to SDTV (Y/C. Composite) with side-cut or letter-box display mode.

■ **Various Video Outputs**

Digital HD signal (HD-SDI), DVI (1920x1080), and NTSC composite (VBS, S-Video) can be output.

■ **Fluorescent Video Shooting**

ICG(Camera Option), Fluorescent and 5-ALA HDTV shooting modes are available when using a CVA-300RIR optional surgery microscope adapter.

■ **ICG-mode Auto Switching (Indocyanine-green)**

ICG shooting switches the shooting mode automatically. Selecting normal shooting switches back to normal mode automatically.

■ **Scene File Setting Saving and Loading**

Scene file setting can be saved and loaded to USB memory.

■ **Still Image Capture and Video Recording**

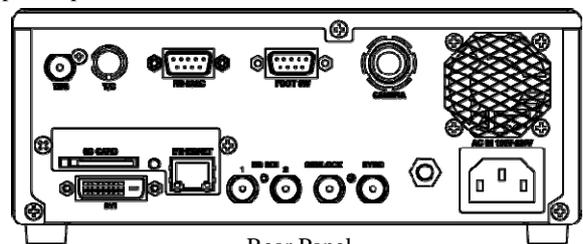
Max.12Mbps Video file (AVI format with H.264) and still image with JPEG format can be stored in USB memory or USB HDD.

■ **Function Switch**

Each function is assignable to a dedicated function switch, enabling one-by one action.

■ **Anti-biotic Coating (Antibacterial Coating Material)**

The camera-head and CCU (camera control unit) use an antibiotic to help to improve infection control.



Rear Panel

■ **Function**

AWB	A switch is located on CCU front panel
Auto Iris	DC IRIS (Bayonet mount lens) control
Auto Shutter	1/100 ~ 1/10000 range (Rolling shutter)
Auto Gain Control	0 ~ 18dB
Shading Correction	
Electronic Storage	Max. 1/4 sec.
HV Centering	Image position can be adjusted in the horizontal (H) and vertical (V) position.
Image Flip and Turn	Image Flip and Turn available
Scene File	4-position (by CCU front switch) Setting data can be stored in USB memory
Picture Freeze	Controlled by pressing front switch or foot-switch (option)
Still Image Capture	Still image (JPEG 1920x1080) Video (H.264) 6-12Mbps can be saved in USB memory/HDD Controlled by pressing front switch or foot-switch (option)

Design and specifications are subject to change without notice.

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