

3CMOS Full HD Medical Grade Camera

MKC-230HD

1080p Native Progressive Processing
3G HD-SDI Output



FEATURE

- Full HDTV(1920 × 1080) 1/3-inch 3CMOS
- Compact Camera Head :
W34 × H40 × D40mm and 100g or less
- Resolution :
1,000 TV lines Horizontal Resolution, 54dB High S/N
- High sensitivity : F14 at 2,000lx



MKC-230HD Rev.A



Compact Camera Head

W34 × H40 × D40mm and 100g or less.

High Resolution/High Sensitivity

Full HDTV 1/3-inch CMOS Sensors Provides 1,000 TV lines of high definition video resolution, coupled with High Sensitivity performance of F14 at 2,000lx, providing the optimal video quality required for high-end medical video systems.

A Variety of video outputs

The camera is equipped with several video signal outputs such as digital HD signal (HD-SDI 1920 × 1080i/p), DVI digital signal (1920 × 1080i/p) and NTSC/PAL signal (VBS, S-VIDEO).

Still Image Capture and Video Recording (factory option)

H.264 Video file or still image with JPEG format (1920 × 1080 pixels) can be stored in SD card or USB flash drive.

3D Master-Slave Control (3D solution requires two cameras)

By setting up two cameras as master camera and slave camera, the slave camera will automatically follow the control of the master camera.

Digital Processing

The video signal processing is done in newly developed high-performance DSP.

Automatic Electronic Shutter System (AES)

An auto electronic shutter (AES) function maintains optimized performance in a variety of lighting situations.

Automatic Iris Control

Accurate iris control is possible with Auto-iris camera adaptors and Auto-iris lenses.

Picture Freeze

Pressing the Freeze button on the CCU panel will hold the current image, allowing careful checking of images where the motion could hide details.

Flip and Turn Function

The captured images can be flipped horizontally and vertically by the DSP to correct the TV images against the optical inversion some optical instruments.

Digital zoom Function

The center of video image of the screen can be zoomed in, up to four times by using this function.

Anti-biotic Coating (Antibacterial Coating Material)

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

Rating

Scanning system	1920 × 1080 50/59.94 Progressive
Image Pickup Device	1/3-inch CMOS × 3
Effective Pixels	1920(H) × 1080(V)
Lens Mount	C-Mount
Operating Temperature	0°C to +40°C
Power Requirement	AC100V to AC230V ±10%
Power Consumption	30VA or less
Dimensions/Weight	Camera Head : W34 × H40 × D40mm/100g or less
	CCU : W170 × H58 × D270mm/2kg or less
Camera Cable	5m single, 7m single or 5+10m combination cable

Performance

Sensitivity	F14 at 2,000lx/3200° better (Line Mix ON)	
S/N Ratio	54dB (Gamma/Detail off, Y signal)	
Resolution	Horizontal : 1,000 TV lines	
Output signal	HDTV	HD-SDI 1920 × 1080 i/p BNC 2ch DVI 1920 × 1080 i/p 1ch
	SDTV	Composite (VBS) BNC 1ch S-Video S terminal 1ch
Sync Signal	Tri-sync signal 1ch	

Function

Auto White Balance	Available on the CCU front panel
Auto Iris	DC IRIS control
Auto electrical shutter	1/50 or 1/60sec to 1/10000sec
Auto gain control	0 to 24dB
Auto knee	Available
Auto flare	Available
Measurement area	4 area + user setting
Scene file	4 files
Freeze	Available on the CCU front panel or an optional Switch

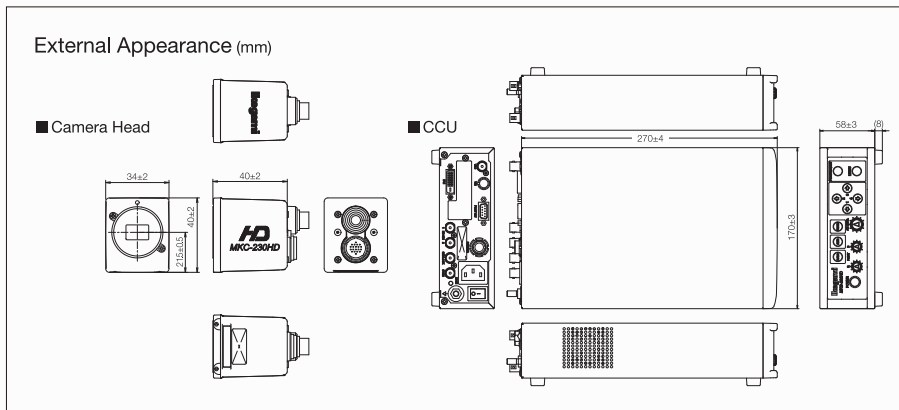
Standard accessories

AC Power Cable, Operation manual

Optional Accessories

Camera cable (5m single, 7m single or 5+10m Combination cable), Microscope Adaptor, Dual Foot Switch, DVI Board, IP Encoder Board, Still Image Capture and Video Recording Board.

- DVI, IP Encoder Board and Video Recording Boards are factory option.
- Only one option board can be built into the CCU slot.



Design and specifications are subject to change without notice.

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