

1920 X 1080

Medical Grade

## High Performance Compact HD Camera for the High-Tech Medical Practice

- Full High Definition (HD) compact camera modular system
- High Sensitivity image capture allows to work in low light
- Three CMOS progressive image sensors and processing
- C mount for a variety of lenses and microscopic uses
- Advanced technology digital output (3G HD-SDI 1080p)
- Very light (<100g) and compact camera head (34×40×40mm)





# MKC-230HD

3CMOS Full-HD  
1080p Native Progressive



1920 X 1080  
Medical Grade

## Compact Camera Head

W34 x H40 x D40mm and 100g or less.

## High Resolution / High Sensitivity

Full HDTV 1/3-inch 3CMOS Sensors Provides 1000 TV lines of high definition video images, coupled with High Sensitivity performance of F10/2000lux (F14 High sensitivity ON) providing the optimal video quality required for high-end medical video systems.

## Digital Processing

Video signal processing is done in high-performance digital process of newly developed.

## A Variety of video output

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

## Automatic Electronic Shutter System (Shutter Iris)

Electronic shutter (Shutter Iris) functionality maintains the optimized performance in variety of 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. This allows the detailed checking of situations where the motion could hide the details.

## Scene File

4 scene files are provided to keep pre-set memories for functions and controls. When the camera setting is changed, it can be easily set back to the original settings.

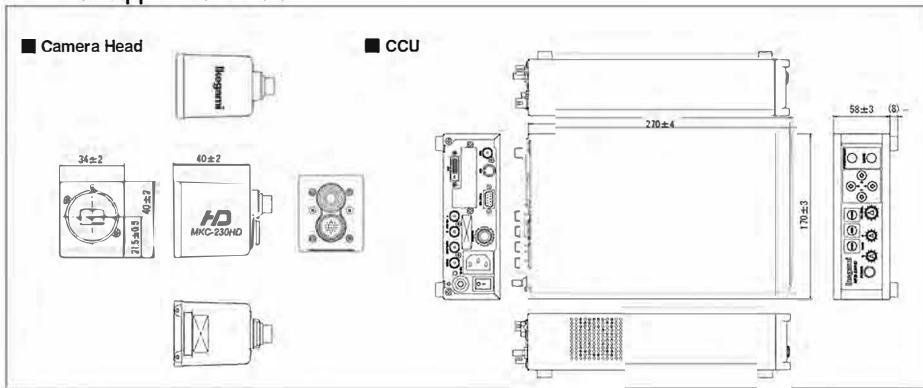
## Flip and Turn Function

The captured images can be flipped horizontally and vertically by the digital processing to correct TV images against the optical inversion caused by optical instruments.

## Digital zoom Function

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

## External Appearance : mm



## Rating

Scanning system	1920x1080 50/59.94 Progressive
Image Pickup Device	1/3-inch 3CMOS
Effective Pixels	1920(H) X 1080(V)
Lens Mount	C-Mount
Operating Temperature	0°C to +40°C
Power Requirement	AC100V to AC230V ±10%
Power Consumption	80VA or less
Dimensions/Weight	Camera Head:W34 x H40 x D40mm / 100g or less CCU:W170 x H58 x D200mm / 2kg or less
Camera Cable	5m single, 7m single or 5+10m combination cable

## Performance

Sensitivity	F10 at 2000 lux/3200°K or better (F14 High sensitivity ON)
S/N Ratio	54dB (Gamma/Detail off, Y signal)
Resolutions	Horizontal: 1000 TV lines
Output signal	HDTV HD-SDI 1920x1080 i/p BNC 2ch DVI 1920x1080 i/p 1ch SDTV Composite (VBS) BNC 1ch S-Video S terminal 1ch
Sync Signal	HDTV: 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 1/60 sec to 1/10000 sec
Auto gain control	0~18 dB
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
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## Optional Accessories

Camera cable (5m single, 7m single or 5+10m combination cable), Microscope Adaptor, Dual Foot Switch.
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Front Panel



Rear

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