

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



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### 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.

### 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

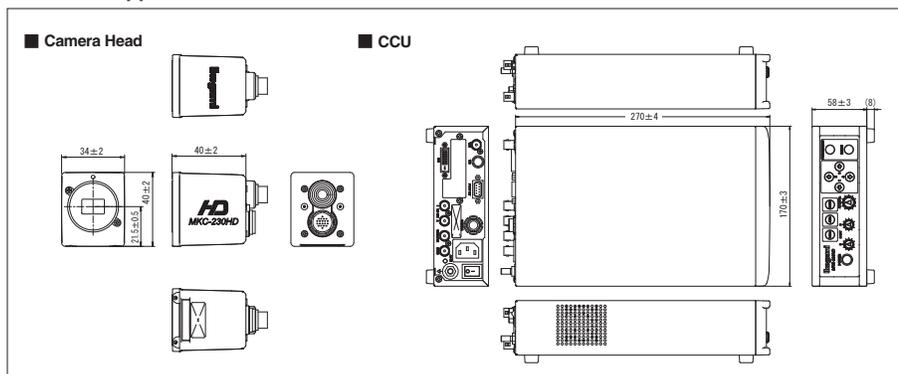
### Standard accessories

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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### External Appearance : mm



Design and specifications are subject to change without notice.

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### Ikegami Tsushinki Co.,Ltd.

URL : <http://www.ikegami.co.jp/en/>

- Head Office : 5-6-16 Ikegami, Ohta-ku, Tokyo 146-8567, Japan ..... TEL.03-5700-1111 / FAX.03-5700-1137
- Overseas Sales Division : 5-6-16 Ikegami, Ohta-ku, Tokyo 146-8567, Japan ..... TEL.03-5700-4117 / FAX.03-5748-2200
- Beijing Office : No.417 Jia Tai International Mansion, No. 41 East Fourth Ring Road, Chaoyang District, Beijing, China ..... TEL.010-85711804 / FAX.010-85711804

### Ikegami Electronics (U.S.A.), INC.

URL : <http://www.ikegami.com>

- Headquarters : 37 BROOK AVENUE, MAYWOOD, NJ 07607 ..... TEL.(201) 368-9171 / FAX.(201) 569-1626

### Ikegami Electronics (Europe) GmbH

URL : <http://de.ikegami.co.jp/>

- Headquarters : Ikegami Strasse 1, D-41460 Neuss, Germany ..... TEL.02131-1230 / FAX.02131-102820
- U.K. Branch : Unit E1 Cologne Court, Brooklands Close, Windmill Road, Sunbury-on-Thames, Middlesex TW16 7EB, England ..... TEL.01932-769700 / FAX.01932-769710

