

# Specifications

## Rating

|                       |                                |                                                                                                  |
|-----------------------|--------------------------------|--------------------------------------------------------------------------------------------------|
| Optics                | RGB prism                      |                                                                                                  |
| Image Pickup Device   | 1/3-inch, CMOS x 3             |                                                                                                  |
| Lens Mount            | C-Mount                        |                                                                                                  |
| Output Signals        | 4K                             | 3G-SDI (Level A) x 4 BNC 1ch                                                                     |
|                       |                                | 3840 x 2160p                                                                                     |
|                       | HDTV                           | HD-SDI 2ch                                                                                       |
|                       |                                | 1920 x 1080i/p<br>DVI 1ch<br>1920 x 1080i/p                                                      |
| External Reference    | HDTV Tri-Sync 1ch              |                                                                                                  |
| Camera cable (option) | Multi-core cable 5m + 10m      |                                                                                                  |
| Dimensions / Weight   | Camera Head                    | W34 x H40 x D40mm [W1.34 x H1.57 x D1.57inch] (excluding protrusions) / 100g [0.22lbs] approx.   |
|                       | Camera Control Unit            | W210 x H80 x D270mm [W8.28 x H3.15 x D10.63 inch] (excluding protrusions) / 3kg [6.6lbs] or less |
| Power Requirement     | AC 100V - 230V ±10% 50/60 Hz   |                                                                                                  |
| Power Consumption     | 29W                            |                                                                                                  |
| Safety Approval       | EN60601-1, ANSI/AAMI ES60601-1 |                                                                                                  |

## Performance

|             |                                          |
|-------------|------------------------------------------|
| Resolution  | 1600 TV Line                             |
| S/N         | 58dB (Gamma/Detail OFF)                  |
| Sensitivity | 2000 lx F8 /3200K or more (LINE MIX OFF) |

## Function

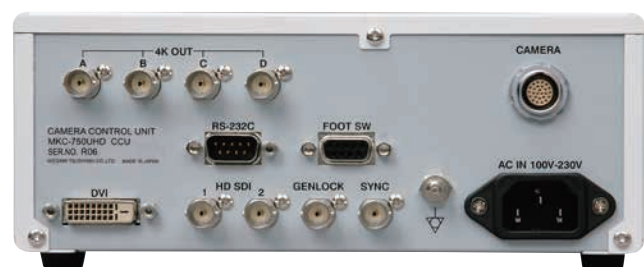
|                                      |                                                                                                              |                                |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|
| Electronic Shutter (Rolling Shutter) | Manual                                                                                                       | 1/100~1/10000                  |
|                                      | Auto                                                                                                         | 1/100~1/10000                  |
|                                      | Slow                                                                                                         | 1/4, 1/8, 1/15, 1/30 field/sec |
| Gain                                 | -9dB~24dB (3dB steps)                                                                                        |                                |
| Automatic Functions                  | Auto White Balance                                                                                           |                                |
|                                      | Auto Gain Control                                                                                            |                                |
|                                      | Auto Iris Control                                                                                            |                                |
|                                      | Auto knee                                                                                                    |                                |
| Image Correction Functions           | Shading Correction, DTL Correction, Flare Correction, Auto knee                                              |                                |
| Auto Iris Sample Area                | Narrow / Middle / Full / Circle / USER                                                                       |                                |
| Image Flip and Turn                  | Horizontal, Vertical                                                                                         |                                |
| Scene File                           | 4 files (by CCU front switch) Setting data can be stored in USB memory                                       |                                |
| H/V Centering                        | Built-in                                                                                                     |                                |
| Digital Zoom                         | 1.1x -4x                                                                                                     |                                |
| Color Bar                            | Built-in                                                                                                     |                                |
| Color Correction (paint)             | R-channel / B-channel Correction available via CCU front control                                             |                                |
| Brightness Adjustment                | Available via CCU front control                                                                              |                                |
| Freeze Function                      | Built-in (Controlled by CCU front switch or optional foot switch), still image / live image can be exchanged |                                |
| Image Level Indicator                | 7 steps (by LED display on CCU)                                                                              |                                |

## Front & Rear Panels

### Front Panel

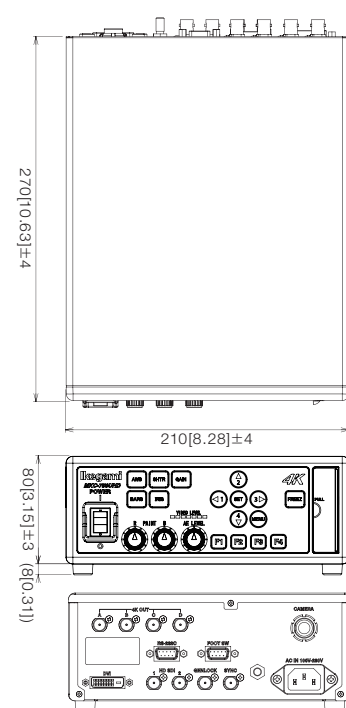


### Rear Panel

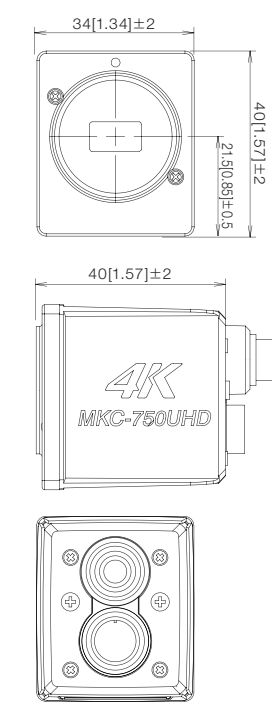


## Dimensions (Unit:mm[inch])

### CCU



### Camera Head



# Ikegami

# 4K

## High Resolution 4K Camera MKC-750UHD

Superior Picture Quality

4K  
RESOLUTION

COMPACT  
AND LIGHTWEIGHT



Design and specifications are subject to change without notice.

**Ikegami** IKEGAMI ELECTRONICS (U.S.A.), INC.

U363A168-1B

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High Resolution 4K Camera

# MKC-750UHD

## 4K

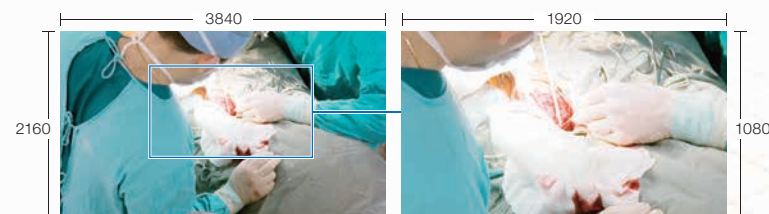


## 4K RESOLUTION

### 4K High Resolution

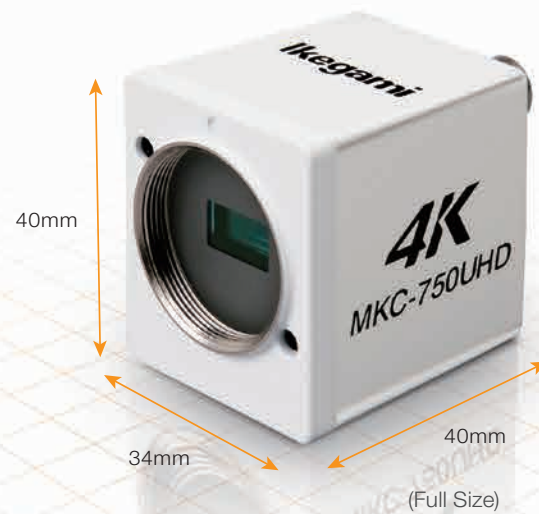
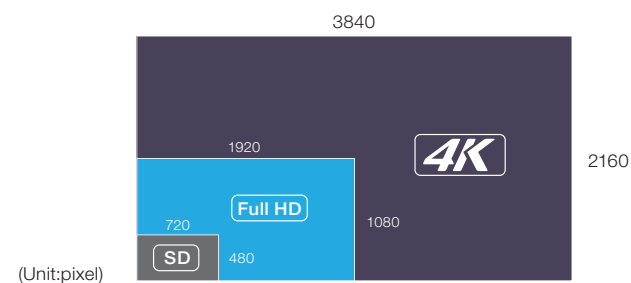
By equipping the CCU with 4K (3840x2160) digital processing, the MKC-750UHD produces superb resolution with four times the sample rate of conventional HD (1920x1080). (Horizontal Resolution 1600TVL, and S/N 58dB)

Quarter (1/4) video capture for full HD (1920x1080) display



## ABOUT 4K

4K (3840x2160) delivers four times as much detail as Full HD (1920x1080), providing high quality images as real as seen by the human eye. Especially on a big screen, it reproduces images superior to Full HD.



## COMPACT AND LIGHTWEIGHT

### Compact and Lightweight Camera Head

Although the MKC-750UHD is a 4K camera, it has a very compact and lightweight camera head.

## FEATURES & FUNCTIONS

### High Sensitivity

When providing 4K resolution, the MKC-750UHD has a sensitivity of F8 at 2000 lx. With the function of adding lines (LINE MIX function), it is practical to increase the sensitivity by a factor of two for low light situations. Note: the trade off is some loss in resolution when using line mix.

### Various Image Outputs

The CCU outputs digital HD signals (HD-SDI and DVI), as well as, a 4K signal.

### Automatic Iris Control

By connecting an exclusive camera adaptor, the auto iris control function can be used.

### Automatic Electronic Shutter System

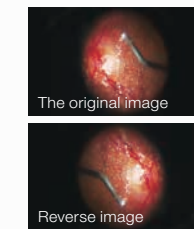
The continuously variable electronic shutter can be used with a manual iris lens. This iris functionality maintains optimized performance over a wide range of lighting conditions.

### Auto Gain Control

The gain can be adjusted automatically to provide the proper picture brightness when the light level is not enough.

### Flip and Turn Function

The images can be flipped horizontally and vertically by the digital processing to correct the TV image against the inversion caused by optical instruments. Remote control is available via an optional external unit such as a foot switch.



### Antibacterial Coating

The camera head and CCU (camera control unit) are coated to improve infection control.

### Picture Freeze

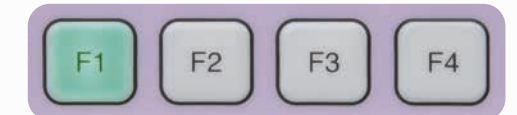
By pressing the Freeze button on the CCU, it is possible to hold the current image.

### Scene File

4 scene files are provided to keep pre-set memories of various control functions for convenient use. Scene file data can be saved into and loaded from a USB memory.

### Function Switch

Four switches are available on the CCU to custom assign to control functions important to the user.



### Digital Zoom

Electronic zoom for the center of an image is available, up to four times.

### Level Indicator

Video level can be checked and adjusted using a level indicator on the CCU.



## ACCESSORIES

### Surgery Microscope Adaptor

CFA-400R

Focus/Remote control



CFA-400



### Other Accessories

Camera cable



MCGHPP-050 (5m)  
MCCGCJP-100 (for extension 10m)

Dual Foot Switch  
OFLTV-SP

