

High-Sensitivity 4K Camera MKC-835S

4K Imaging, Without Compromise.



Key Features

Flexibility Adapted to Clinical Environments

- The camera cable can be separated into a 5m section on the camera head side and a 10m section on the camera control unit side, enabling safe and efficient movement and installation of the surgical microscope and monitor cart.
- Compatible with ceiling-mounted surgical microscopes.

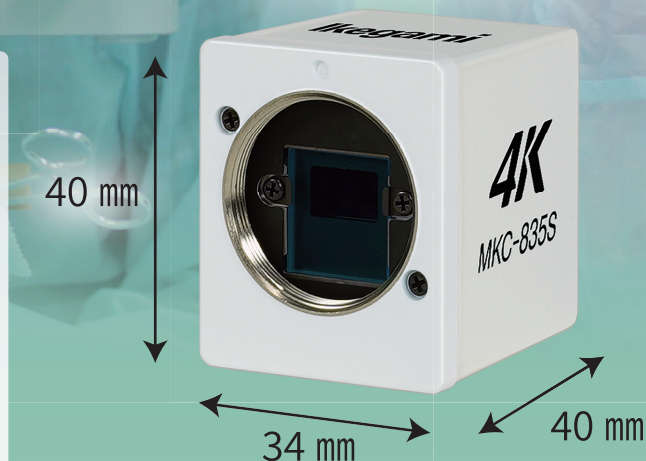
Compact Design

- Small and lightweight camera head.
- Designed for installation on surgical microscopes with limited space, without compromising operability.

Basic Performance

- 1/2.8-inch CMOS sensors x3
- Outstanding image quality:
1,600 TV lines horizontal resolution, 63 dB S/N ratio
- Exceptional sensitivity:
F26 equivalent at 2000 lx (Line Mix / Pixel Mix ON)
- Ultra-compact camera head: 34 x 40 x 40 mm
- The camera head and camera control unit are treated with an antimicrobial coating.

Compact Design



Functional Highlights

Image Enhancement Functions

Standard feature

Picture Effect

A distinct image processing technique is utilized to improve the visibility of the subject.

(Contrast Correction, Blood Vessels Highlight, Smoke removal)

Advanced Sharpness

Boosting color contrast around edges enhances the clarity of texture perception.

Scene File

Streamline your operations with a single touch.

Scene files provide the capability to preset up to four camera settings, whether they are frequently used or tailored to specific procedures, ready to be activated with a simple button press. Additionally, scene file settings can be stored and loaded via a USB flash drive for added convenience.

Fluorescein Mode

The F1 and F2 buttons are customizable to accommodate frequently used functions for quick and convenient access.

Fluorescein Mode

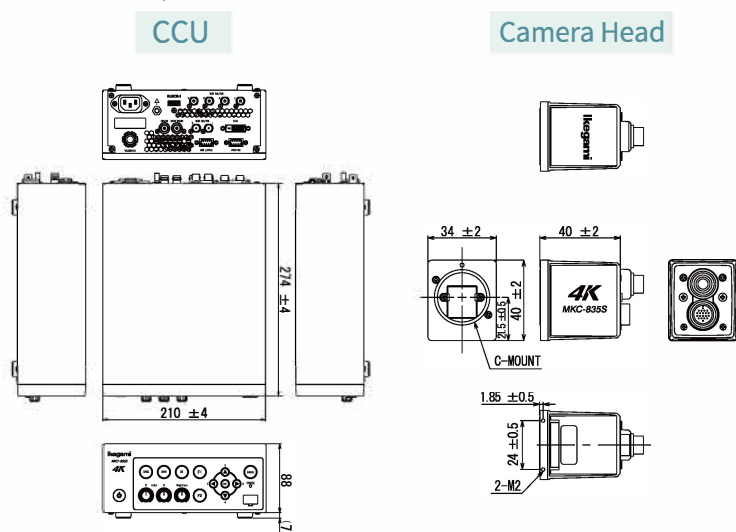
Featuring a fluorescein mode, the MKC-835S empowers the clear capture of fluorescent spots during ophthalmological slit lamp fluorescein testing. This function also allows the reduction of excitation light color and offers the convenience of color tone adjustments during fluorescein mode, with easy switching options assignable to a function button or through a foot switch.

Freeze Function

Automatic Exposure Control

Flip and Turn Function

Dimensions (mm)



Ratings

Optics	RGB prism	
Image Pickup Device	1/2.8-inch CMOS sensor x3	
Lens Mount	C-Mount	
Output Signal	4K 3840 x 2160p 59.94/50Hz	12G-SDI x4 or Quad Link 3G-SDI (2SI) x1 HDMI※ x1
	HD 1920 x 1080 i/p 59.94/50Hz	3G or HD-SDI x2 HDMI※ x1 DVI x1
	※The 4K and HD HDMI outputs share the same port.	
Dimensions (excluding protrusions)	Camera Head	W34 x H40 x D40mm
	CCU	W210 x H88 x D274mm
Weight	Camera Head	100g or less
	CCU	3.1kg or less
Power Requirement	AC100V~240V 50/60Hz	
Power Consumption	72W or less	
External Control	RS-232C x1	
	FOOT SW x1	

Performance

Resolution	1600TVL
S/N Ratio	63dB
Sensitivity	F13/2000lx (Line Mix Off)
	F22/2000lx (Hyper Gain ON)
	F26 equivalent/2000lx (Line Mix, Pixel Mix ON)

Functions

Electronic Shutter	OFF~1/10,000s
Slow Shutter	59.94Hz: 1/30 ~1/4s
	50Hz: 1/25 ~1/3s
Gain	Max. 33dB
Automatic Functions	Auto White Balance (AWB/ATW)
	Auto Gain Control/Auto Shutter Control/ Auto Iris Control
	Auto Knee Control/Auto Flare Control
Photometric Measurement Area	NARROW/MIDDLE/CIRCLE/USER
Digital Zoom	Max. x4 (in steps of x0.1)
Color Bar	On/Off button on the front panel
Color Correction (paint)	Red/Blue level adjustable via front CCU volume
Brightness Adjustment	Brightness level adjustable via front CCU volume

Operating Environment

Temperature/Humidity	0°C~+40°C/30%~90% (no condensation)
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Accessories

Camera Cable	MCCMHPP-050 (5m)
Extension Cable	MCCMCJP-100 (10m)

CAUTION: Please read the operation manual carefully before use.

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