

Видеокамеры IK, JCS

Технические характеристики

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IK-4K

UltraHD 4K Video Camera



CANON MEDICAL COMPONENTS EUROPE B.V. Video Sensing Devices introduces the ultra-compact 3-chip UltraHD 4K video camera providing 8MP 3840 x 2160 output and up to 1600 TV lines of resolution. Video output is switchable between 4K, 1080p and 1080i formats. Due to its small size the IK-4K is ideal for live event broadcast or healthtech applications where 4K performance is crucial.

The **IK-4K camera** features quad 3G/HD-SDI 59.94/50Hz output, and incorporates advanced image processing through 12-channel color matrix adjustment and 5 user-defined settings files, providing unprecedented color accuracy and incredible resolution. C-mount lens mount compatible.



UltraHD 3840 x 2160 format provides 4x the pixel data of 1080p, resulting in incredibly sharp details and higher resolution. (Simulated images are for illustration purposes only.)

HD 1080p
1920 x 1080

UHD 2160p
3840 x 2160



IK-4K

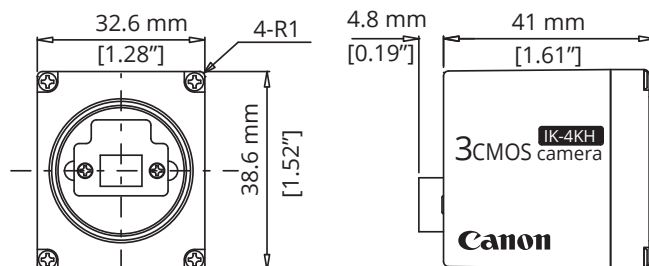
UltraHD 4K Video Camera

Camera Head Specifications

IK-4K

Image Sensor	3-CMOS, 1/2.9", progressive
Output Matrix	Horizontal: 3840, Vertical: 2160 UHD 4K mode Horizontal: 1920, Vertical: 1080 HD 1080p/1080i
Output Resolution H/V	1600 TV lines standard UltraHD 4K mode 1000 TV lines or more 1080p/1080i modes
Sensitivity	F5.6 standard (59.94 Hz setting) F6.1 standard (50 Hz setting) (at 2000 lx, 3000K)
Minimum Illumination	19.5 lx (59.94 Hz setting) 16.2 lx (50 Hz setting) at F2.2, 24 dB
S/N Ratio	58 dB standard AGC: OFF, Gamma: OFF, Enhance: OFF Color matrix: OFF, Color temp: 5600K
Operating Temperature	0°C to 40°C / 32°F to 104°F
Operating Humidity	Less than 90% (non-condensing)
Weight	Approx. 70 g (2.5 oz)
Dimensions	W: 32.6 mm H: 38.6 mm D: 41 mm (1.28" x 1.52" x 1.61") Protruding portion is not included

Camera Head Exterior Dimensions



Controller Specifications

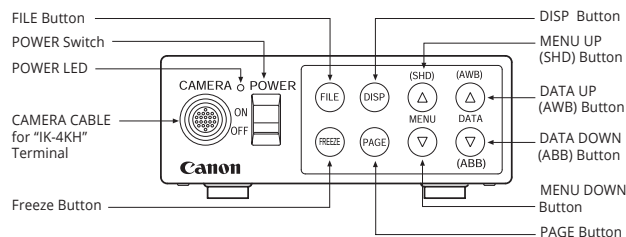
IK-4KE

Power Supply	12V DC±10%
Power Consumption	13.8 W
Scanning System	Progressive / Interlaced (Selectable)
Scan Frequency	H: 67.433 kHz, V: 59.94 Hz :1080p / 59.94 Hz 4K / 59.94 Hz 4 division output H: 56.250 kHz, V: 50 Hz :1080p / 50 Hz 4K / 59.94 Hz 4 division output H: 33.716 kHz, V: 59.94 Hz : 1080i / 59.94 Hz H: 28.125 kHz, V: 50 Hz : 1080i / 50 Hz
Operating Temperature	0°C to 40°C / 32°F to 104°F
Operating Humidity	Less than 90% (non-condensing)
Weight	Approx. 800 g (1.76 lbs.)
Dimensions	W: 110 mm, H: 40 mm, D: 196 mm (4.33" x 1.58" x 7.72")
Scene Files	5 User-configurable scene files
White Balance	Auto / Manual (Selectable)
Gain	Auto (-6 dB to 24 dB); Manual (-6 dB to 24 dB), OFF
Output Signal	4x 3G/HD-SDI
Electronic Shutter	Auto / Manual / OFF 1/60 – 1/10,000

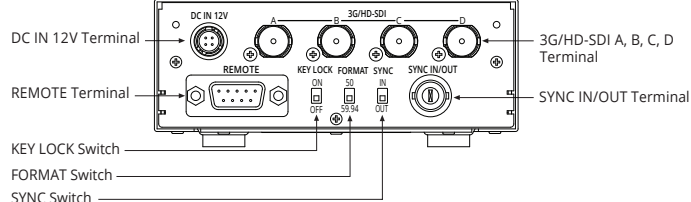
This product is marked with "CE" and therefore complies with the applicable harmonized European standards listed under the Directive 2014/30/EU and 2011/65/EU.

Controller Front and Back Panels

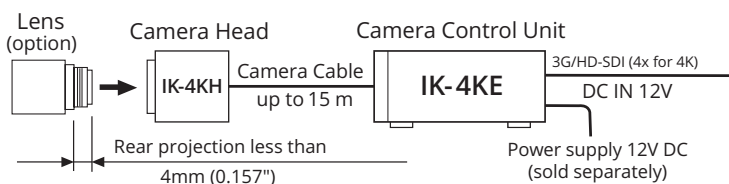
IK-4KE FRONT



IK-4KE REAR



Connection



System Components

For further details, contact your Canon ME/FA distributor.

CAMERA HEAD

IK-4KH

CAMERA CONTROL UNIT

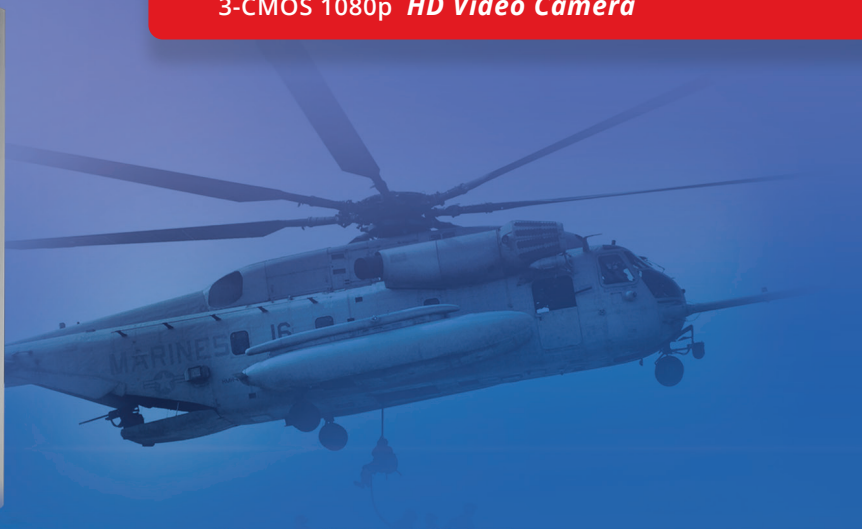
IK-4KE

CAMERA CABLE

Model	Length
EXC-3HD03	3 m
EXC-3HD06	6 m
EXC-3HD10	10 m
EXC-3HD15	15 m

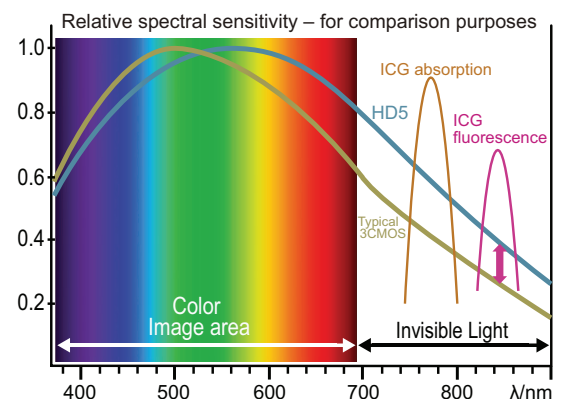
IK-HD5

3-CMOS 1080p HD Video Camera



CANON MEDICAL COMPONENTS EUROPE B.V. Video Sensing Devices introduces the latest 3-CMOS camera innovation, a progressive-scan full-HD 1080p/1080i video camera featuring 3G-SDI/HD-SDI and DVI-D or USB 3.0 and DVI-D outputs and removable optical low pass filter (OLPF) for dual-mode imaging applications switchable between visible light and near-infrared visualization.

The IK-HD5U configuration includes advanced features particularly well suited for microscopy applications including USB 3.0 output, freeze frame and longer exposure up to 1 second (60 frames). This HD camera can be used for any HD video application as well as applications which use fluorescing agents. While the IK-HD5 is not an approved IEC60601 medical device, its imaging capabilities are ideal as a component of surgical microscopy, endoscopy, IR inspection and defense imaging systems.



Incorporating Canon's innovative three-chip technology, the IK-HD5 provides approximately 3dB increased sensitivity in the near-infrared spectrum through 700-870 nm. When equipped with the appropriate optics and filters, the IK-HD5 can be used for both visible light and near IR imaging applications such as indocyanine green (ICG) and other fluorescing agents.

IK-HD5

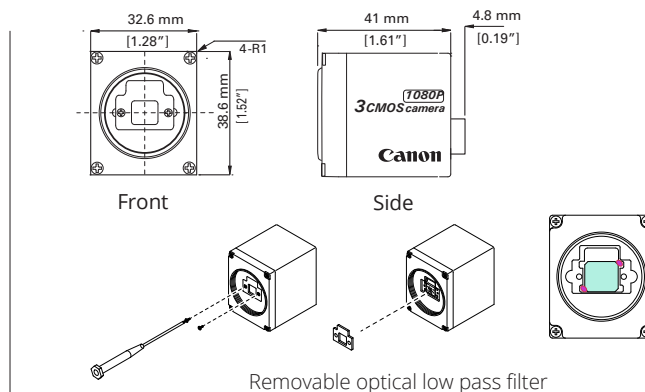
3-CMOS 1080p HD Video Camera

Camera Head Specifications

IK-HD5H

Image Sensor	3-CMOS, 1/2.9 inch, 2.1MP progressive
Output Resolution	Horizontal : 1920, Vertical : 1080
Resolution :H :V	1000 TV lines standard 1000 TV lines standard
Sensitivity	F10 standard (59.94 Hz setting) F11 standard (50 Hz setting) (at 2000 lx, 3000 K)
Minimum Illumination	4.8 lx (59.94 Hz setting) 4.0 lx (50 Hz setting) at F2.2, 20 dB, BINNING: ON 9.6 lx (59.94 Hz setting) 8.0 lx (50 Hz setting) at F2.2, 20 dB, BINNING: OFF
S/N Ratio	56 dB standard AGC: OFF, Gamma: OFF, Enhance: OFF
Operating Temperature	0 °C to 40 °C / 32 °F to 104 °F
Operating Humidity	Less than 90% (non-condensing)
Weight	Approx. 93 g (3.3 oz)
Dimensions	W: 32.6 mm H: 38.6 mm D: 41 mm (1.28" x 1.52" x 1.61") Protruding portion is not included

Camera Head Exterior Dimensions



Controller Specifications

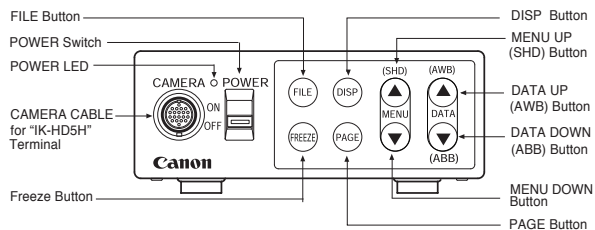
IK-HD5E and IK-HD5U

Power Supply	12V DC±10%
Power Consumption	10.3 W
Scanning System	Progressive / Interlaced (Selectable)
Scan Frequency	H: 67.433 kHz, V:59.94 Hz :1080p / 59.94 Hz H: 56.250 kHz, V:50 Hz :1080p / 50 Hz H: 33.716 kHz, V:59.94 Hz :1080i / 59.94 Hz H: 28.125 kHz, V:50 Hz :1080i / 50 Hz
Operating Temperature	0 °C to 40 °C / 32 °F to 104 °F
Operating Humidity	Less than 90% (non-condensing)
Weight	Approx. 600 g (1.32 lbs.)
Dimensions	W: 110 mm, H: 40 mm, D: 186 mm (4.33" x 1.58" x 7.32")
Scene Files	5 User-configurable scene files
White Balance	Auto / Manual (Selectable)
Gain	Auto (-15dB to 20dB); Manual (-15dB to 20 dB), OFF
Output Signal	DVI-D / 3G-SDI or HD-SDI DVI-D / USB micro-B (IK-HD5U) 1920 x 1080 / 59.94fps max. USB3.0 1920 x 1080 / 10fps max. USB2.0
Electronic Shutter	Auto / Manual (OFF 1/60 - 1/10,000) / Syncro Scan

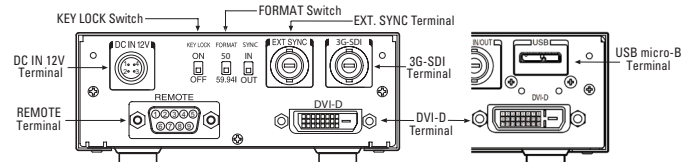
This product is marked with "CE" and therefore complies with the applicable harmonized European standards listed under the Directive 2014/30/EU and 2011/65/EU.

Controller Front and Back Panels

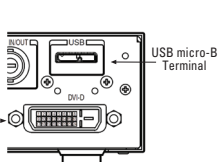
IK-HD5 FRONT



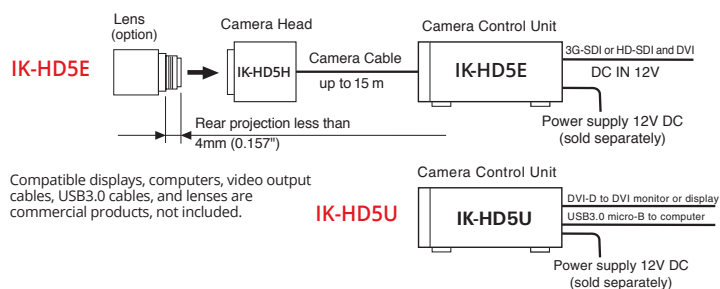
IK-HD5E REAR



IK-HD5U REAR



Connection



System Components

For further details, contact your Canon ME/FA distributor.

CAMERA HEAD

IK-HD5H
IK-HD5E (DVI-D / 3G-SDI or HD-SDI)
IK-HD5U (DVI-D / USB3.0 micro-B)

CAMERA CABLE

Model	Length
EXC-3HD03	3 m
EXC-3HD06	6 m
EXC-3HD10	10 m
EXC-3HD15	15 m

JCS-HR5U

Compact HDMI/USB 3.0 *HD Video Camera*



CANON MEDICAL COMPONENTS EUROPE B.V. Video Sensing Devices introduces the new JCS-HR5U camera. The real-time 60 fps full HD USB 3.0 video camera represents an important advancement in clinical microscopy imaging applications. The ultra-compact camera features both HDMI® and SuperSpeed USB image outputs for *simultaneous*, real-time live viewing from a monitor plus high-res image capture to a computer. It is optimal for color documentation systems integration in the fields of bio imaging, scientific imaging, and live tissue imaging.

The 1.75" x 1.75" x 3" camera integrates easily with any clinical microscope using a C-mount lens adapter. Incorporating the latest CMOS sensor technology and advanced image processing provides exceptional sensitivity and color accuracy for a real-time video solution.



JCS-HR5U

Compact HDMI/USB 3.0 HD Video Camera

FULL HD, ULTRA-COMPACT DUAL-OUTPUT VIDEO CAMERA
HDMI & USB 3.0

Performance Specifications

JCS-HR5U

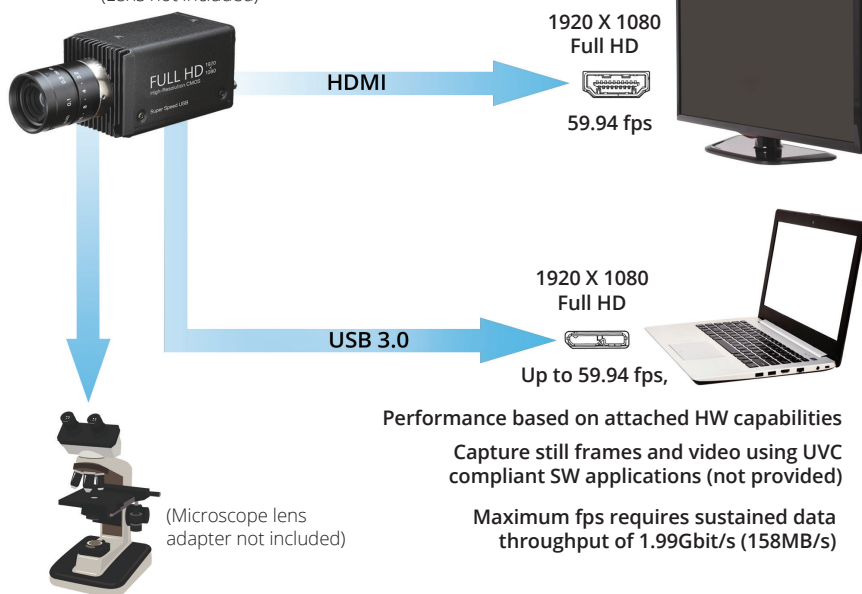
Image sensor	1/2.8 inch color CMOS sensor (progressive scan, rolling shutter)
Lens mount	C mount
Image output	HDMI 1.4a 4:4:4 : 1920 x 1080 / 59.94Hz USB 3.0 (UVC1.1 compliant YUV4:2:2 : USB 3.1 Gen 1) 1920 x 1080 / 59.94fps (USB 3.0 mode theoretical maximum) 1920 x 1080 / 10fps (USB 2.0 mode theoretical maximum)
Sensitivity	F10 standard (2000lx, 3100K, gain OFF, gamma OFF, 59.94Hz); F11 standard (2000lx, 3100K, gain OFF, gamma OFF, 50Hz)
Minimum illumination	4lx standard (F1.4, 3100K, gain +20dB, gamma OFF, 59.94Hz) 3.3lx standard (F1.4, 3100K, gain +20dB, gamma OFF, 50Hz)
Power requirements	DC12V± 10%, power consumption approx. 4.5W
Environmental	0°C ~ + 40°C (32°F ~ +104°F) operating -20°C ~ + 60°C (-4°F ~ +140°F) non-operating Humidity 90% or less non-condensing
Gain	AUTO / MANUAL : 0 ~ 20dB / OFF
White balance	AWB (Automatic White Balance) / MANUAL
Shutter	AUTO / MANUAL (OFF ~ 1/10000s)
Image optimization function	MATRIX color correction (12 colors), gamma correction, detail gain, master pedestal chroma gain setting, knee correction
Special function	Flip / mirror, digital crosshair lines

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Connections

JCS-HR5U

Ultra-Compact Camera
(Lens not included)

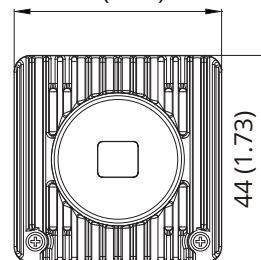


Exterior Dimensions

Measurements in Millimeters (Inches)

FRONT

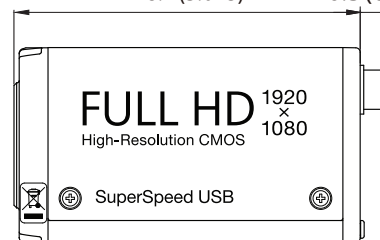
44 (1.73)



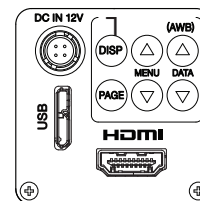
SIDE

78.1 (3.075)

6.3 (0.248)



REAR



Weight approx. 170 g (0.375 lbs)

Output & connector format;
HDMI 1.4a Type A terminal
USB Video Class,
UVC 1.1 Micro-B connector
USB 3.1, Gen 1

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