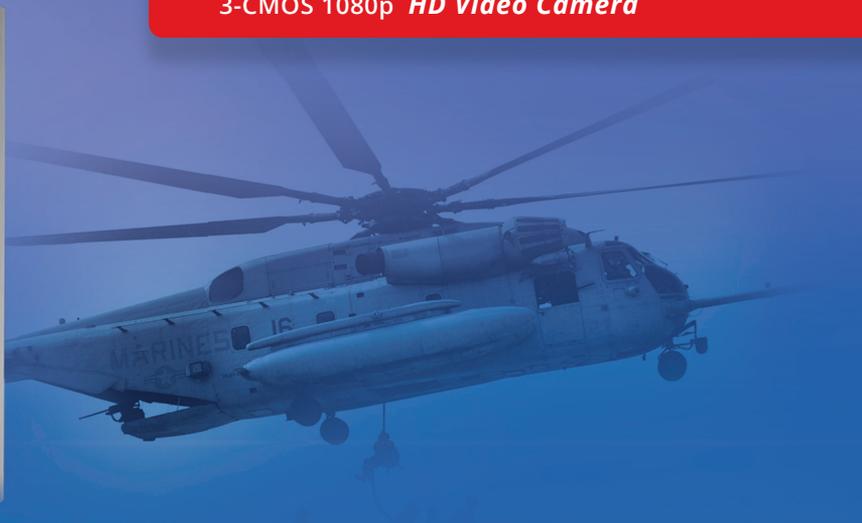




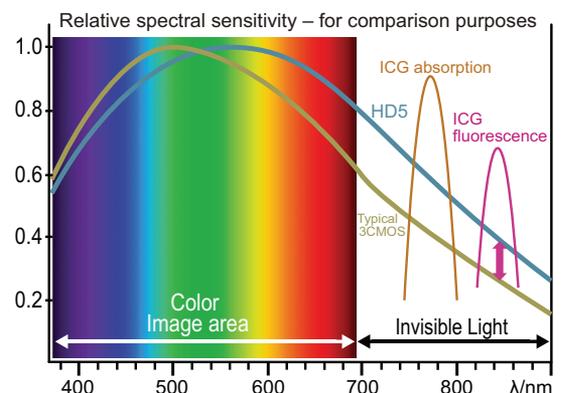
IK-HD5

3-CMOS 1080p HD Video Camera



CANON MEDICAL SYSTEMS USA, Video Sensing Division 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

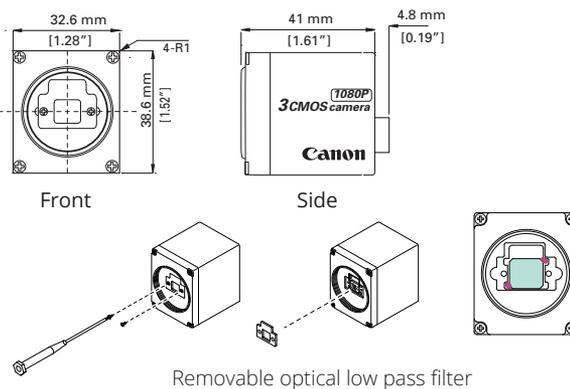
3-CMOS 1080p HD Video Camera

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

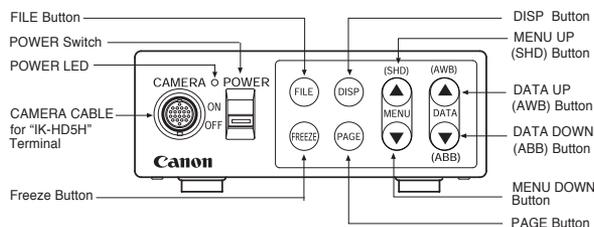
IK-HD5E and IK-HD5U

| | |
|-----------------------|--|
| 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 |

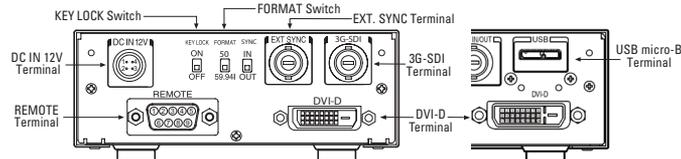
Complies to FCC Part 15 Subpart B, Class A, EN61000-6-4, EN6000-6-2
Canon environmental management exceeds RoHS

Controller Front and Back Panels

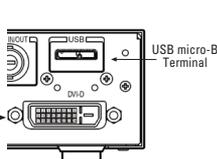
IK-HD5 FRONT



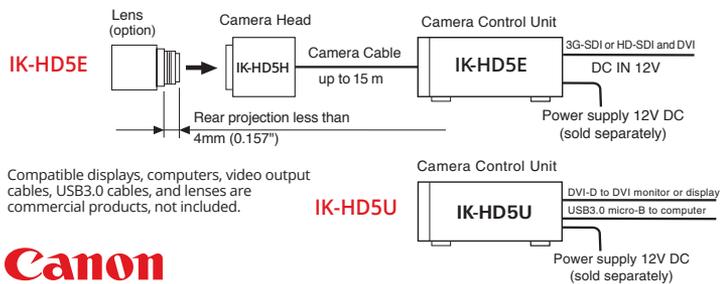
IK-HD5E REAR



IK-HD5U REAR



Connection



Compatible displays, computers, video output cables, USB3.0 cables, and lenses are commercial products, not included.

IK-HD5U

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 |

Canon

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