

IK-HD3H & IK-HR3H

ULTRA-SMALL 1080P
3-CHIP AND 1-CHIP CMOS
HD VIDEO CAMERAS



Features

- 2.1MP, progressive, 1/3" HD CMOS sensors
- 1920 x 1080 Digital DVI output
- High sensitivity and wide dynamic range
- Up to 1,000 TV lines resolution (IK-HD3H)
- 5 User-configurable scene files to achieve exceptional color accuracy and control
- Binning mode for 4x increase in sensitivity
- Image flip and mirror
- Switchable between 1080p and 1080i
- Gen lock for 3D and multi-camera use
- Camera heads are interchangeable with controller
- Remote control via RS232
- C-mount lens mount

Applications

- 3-D applications
- Microscopy / endoscopy
- Scientific imaging / diagnostics
- Broadcast
- Aerospace / Defense

Two Ultra Small HD Camera Heads, One Controller

Toshiba introduces two new feature-rich progressive scan, 1080p, high-definition CMOS cameras, each interchangeable with our new IK-HD3D controller. Our ultra-compact 2.1MP 3-CMOS and 1-CMOS cameras offer unprecedented user-controlled features for optimal color accuracy and high resolution, with advanced noise reduction technology. Two head sizes and video performance characteristics provide flexibility to fit diverse applications, mechanical considerations and budgets. Please refer to our technical specifications. Call or visit our web site to learn why two heads are better than one. www.toshibacameras.com



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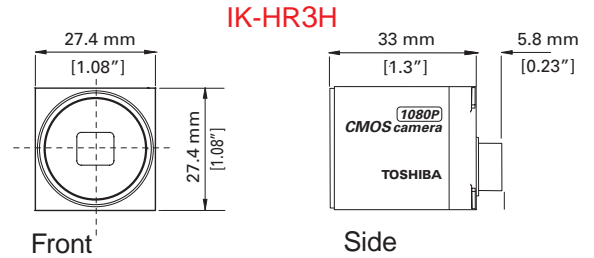
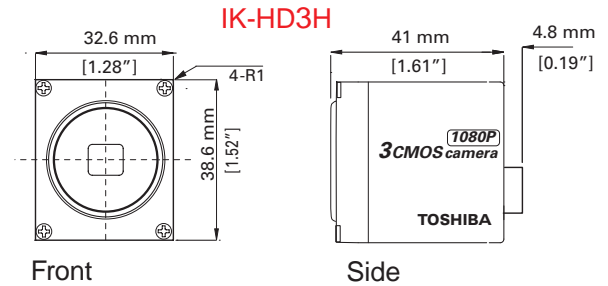
IK-HD3H & IK-HR3H

Performance Specifications 3-CMOS / 1-CMOS 1080P HD Cameras

Camera Head Exterior Dimensions

Camera Head Specifications

	IK-HD3H	IK-HR3H
Image Sensor	3-CMOS, 1/3 inch, 2.1MP progressive	1-CMOS, 1/3 inch, 2.1MP progressive
Output Resolution	Horizontal : 1920, Vertical : 1080	Horizontal : 1920, Vertical : 1080
Resolution : H : V	1000 TV lines standard 1000 TV lines standard	900 TV lines standard 900 TV lines standard
Sensitivity	F10 standard (59.94 Hz setting) F11 standard (50 Hz setting) (at 2000 lx, 3000 K)	F7 standard (59.94 Hz setting) F7.7 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	9.9 lx (59.94 Hz setting) 8.2 lx (50 Hz setting) at F2.2, 20 dB, BINNING: ON 19.8 lx (59.94 Hz setting) 16.3 lx (50 Hz setting) at F2.2, 20 dB, BINNING: OFF
S/N Ratio	56 dB standard AGC: OFF, Gamma: OFF, Enhance: OFF	56 dB standard AGC: OFF, Gamma: OFF, Enhance: OFF
Ambient Temperature	0°C to 40°C / 32°F to 104°F	0°C to 40°C / 32°F to 104°F
Ambient Humidity	Less than 90%	Less than 90%
Weight	Approx. 93 g (3.3 oz)	Approx. 34 g (1.2 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	W: 27.4 mm H: 27.4 mm D: 33 mm (1.08" x 1.08" x 1.3") Protruding portion is not included

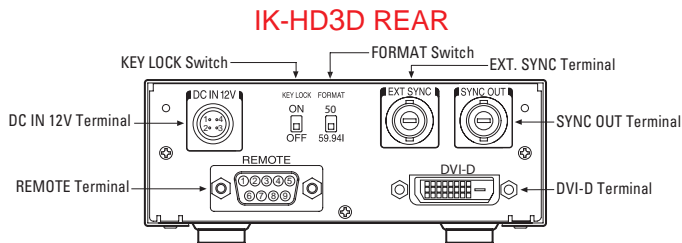
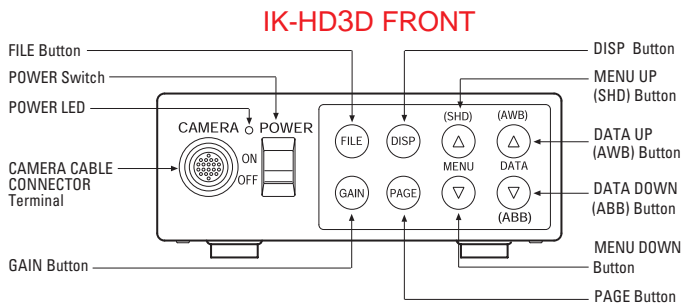


IK-HD3D Controller Specifications

Power Supply	12V DC±10%
Power Consumption	11.4 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
Ambient Temperature	0°C to 40°C / 32°F to 104°F
Ambient Humidity	Less than 90%
Weight	Approx. 610 g (1.34 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 (0 - 20 dB); Manual (-3 - 20 dB), OFF
Output Signal	DVI-D
Electronic Shutter	Auto / Manual / OFF 1/60 - 1/10,000

Complies to FCC Part 15 Subpart B, Class A; EN61000-6-4, EN61000-6-2

Controller Front and Back Panels



System Components

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

CAMERA SYSTEM

IK-HD3H
IK-HR3H

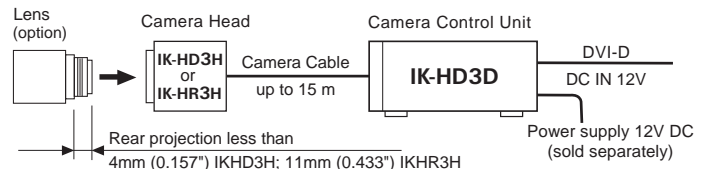
CAMERA CONTROL UNIT

IK-HD3D

CAMERA CABLE

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

Connection



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