

IK-HD3H & IK-HR3H

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



Features

- 2MP, progressive, 1/3" CMOS sensors
- 1920 x 1080 Digital DVI output
- High sensitivity, low noise, wide dynamic range
- Up to 1,000 TV lines resolution
- User configurable to achieve exceptional color accuracy
- Binning mode for increased brightness
- Image flip and mirror
- Switchable between 1080i and 1080P
- 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 2MP 3-CMOS and 1-CMOS cameras offer unprecedented user-controlled features for optimal color accuracy, high resolution and low-light sensitivity. Two head sizes and video performance characteristics provide flexibility to fit diverse applications, mechanical considerations and budgets. Call or visit our web site to learn why two heads are better than one.

www.toshibacameras.com



This information is brought to you by:

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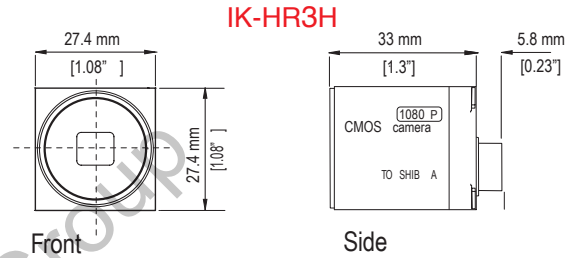
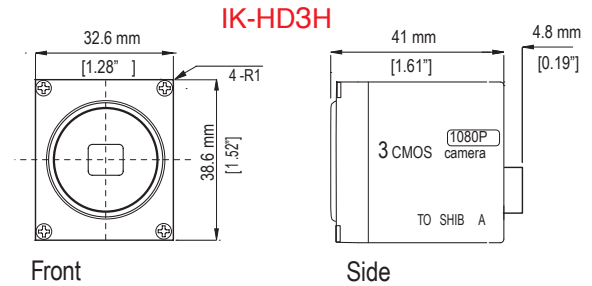
Performance Specifications 3CMOS / 1CMOS 1080P HD Cameras

PRELIMINARY

Camera Head Specifications

	IK-HD3H	IK-HR3H
Image Sensor	3 CMOS, 1/3 inch, 2MP progressive	1 CMOS, 1/3 inch, 2MP 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

Camera Head Exterior Dimensions

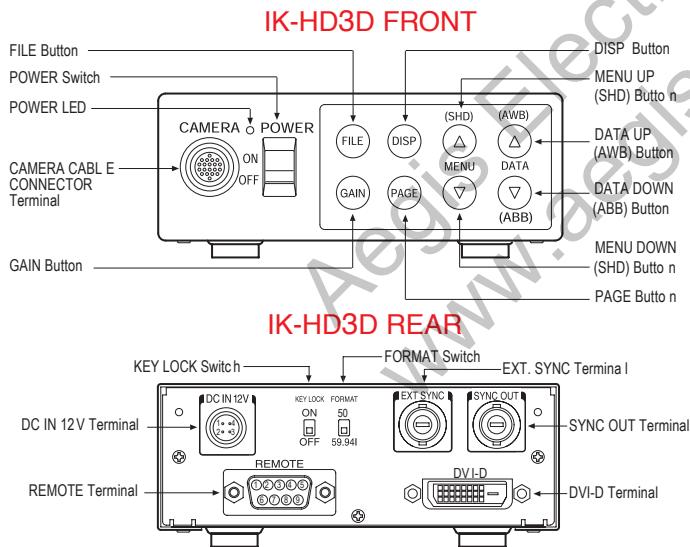


IK-HD3D Controller Specifications

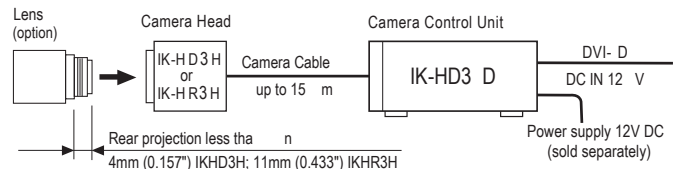
Power Supply	12V DC±10%
Power Consumption	11.4 W
Scanning system	Progressive / Interlace / Selectable
Scan Frequency	H: 67.433 kHz, V: 59.94 Hz : 1080p / 59.94 Hz H: 56.250 kHz, V: 50 Hz : 1080p / 50 Hz H: 33.716 kHz, V: 59.94 Hz : 1080i / 59.94 Hz H: 28.125 kHz, V: 50 Hz : 1080i / 50 Hz
Ambient Temperature	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 File	A, B, C, D, E
White Balance	AWB / MANU
Gain	AUTO (0 - 20 dB); MANU (-3 - 20 dB), OFF
Output Signal	DVI-D (digital RGB); DVI-D terminal
Electronic Shutter	Auto, Manual OFF-1/10000

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

Controller Front and Back Panels



Connection



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	Approx. 3 m
EXC-3HD06	Approx. 6 m
EXC-3HD10	Approx. 10 m
EXC-3HD15	Approx. 15 m

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