



lens for display purposes only

Main Features:

- Remote head camera system consisting:
 - IK-HR1H HD 1-CMOS camera head
 - IK-HR1CD Camera Control Unit with DVI output
- Ultra compact (approx 30 x 35 x 36mm) camera head.
- Output selectable between 1080p, 1080i or 720p at 50 or 59.94 Hz Video.
- Utilises 1/3" progressive scan CMOS sensor.
- On-screen menu.
- Camera head weighs only 50 g. (without lens).
- DVI-I Video Output (HD-SDI Option available).
- Auto and manual white balance.
- Auto and manual electronic shutter.
- Optional 3, 5 or 10 metre cables.
- C-mount.
- 2 years warranty.

Description:

The Toshiba IK-HR1H is a lightweight 1/3" 1-CMOS High Definition (HD) compact camera head having 1920 x 1080 output pixels (16:9 ratio). Three standard cables are available that connect the head to a Camera Control Unit (CCU) with DVI-I output.

A version with HD-SDi output is also available.

This compact camera is switchable between 1080p, 1080i and 720p outputs as well as 50 or 59.94Hz video.

Contact SeeSense for lens options for the Toshiba IK-HR1H



Camera Control Unit

This camera has many suitable applications in the following industries:

- Broadcast
 - Natural History
 - Reality TV
 - In Car
 - Sports including Goal Camera
 - POV Camera
- Medical / Life Sciences
- Microscopy
- Scientific imaging / diagnostics
- Industrial video / inspection
- Homeland security
 - Underwater (compact housing or ROV)
 - Aerial including UAV

SeeSense are able to provide full technical assistance and back up for this camera as well as offering additional special modifications such as special cable and lens solutions, etc. Please contact SeeSense for details and advice.

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Specification:

Power Requirements	12 VDC \pm 10% DCIN connector (4pin)
Power Consumption	Approx. 6.2 watts
Image Sensor	1/3" progressive scan colour CMOS
Output Pixels	1080: Horizontal: 1920, Vertical: 1080 720: Horizontal: 1280, Vertical: 720
Scanning System	Progressive (1080p / 720p) or Interlaced (1080i) Switchable
Sensitivity	F4 Standard (at 2000lx, 3000K, 1/60s)
Min. Illumination	8 lux std., (50 IRE, F1.4, Gain + 18dB Gamma Setting ON (setting value 0), 3000K)
Frame Rate	30 fps (1080i), 60 fps (1080p or 720p)
Shutter	AUTO: Peak / Average / Response speed / Area MANUAL: OFF, 1/100s, 1/125s, 1/250s, 1/500s, 1/1,000s, 1/2,000s, 1/4,000s, 1/8,000s, 1/16,000s, 1/32,000s SS (Synchronized Scan): 2/1125H~1123/1125H
Gain	OFF / ON: 0 ~ 12dB 1dB step
White Balance	AWB (Automatic White Balance): 3200 K/5600 K ATW (Automatic Tracking White Balance): 3000 ~ 6000K MANUAL: R, B level adjustment: 3200 K/5600 K
Gamma	OFF / ON: -10 ~ 0 ~ 10 step control
Scene File Setting	5 Files A/B/C/D/E
Video Signal Output	Digital output (DVI-I connector output) 8 bit X RGB Analog output (DVI-I connector output) 1080p @ 60 fps, 1080i @ 30 fps, 720p @ 60 fps (switchable)
Sync. System	Internal
Remote Control	RS-232C: Baud rate 9600bps/19200bps (Rx/D, Tx/D, GND)
Camera Mount	C-mount 17.526mm (in Air)
Dimensions	IK-HR1CD CCU 44 x 44 x 77.5mm IK-HR1H Camera Head 30 x 35 x 36mm
Weight	IK-HR1H Camera Head 50 grammes IK-HR1CD CCU 146 grammes
Operating Temperature	0°C to + 40°C
Storage Temperature	-20°C to + 60°C
Humidity	90% or less (non-condensing)

Recommended Accessories

Cables

Original Toshiba Cables (CCU – Camera head)

EXC-HR03	3 metre Camera Cable
EXC-HR05	5 metre Camera Cable
EXC-HR10	10 metre Camera Cable

Contact SeeSense for special cable options

Lenses

The following lenses (a small selection only) have been tested by SeeSense and are known to be compatible with this camera. (angles of view quoted are in the horizontal plane).

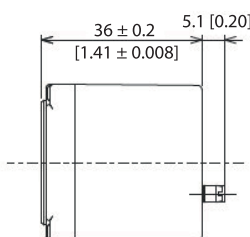
Fujinon	3.8 -13mm	25.86 - 2.38 degrees
Pentax	4.2mm	64 degrees
	6mm	43.6 degrees
Senko	1.87mm	with camera modification
Theia	1.28mm	125 degree rectilinear lens

If you have a specific requirement please contact SeeSense for best advice.

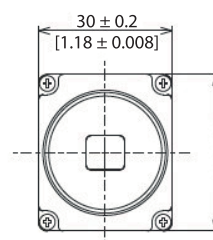
Power Supply

Toshiba ACM-601E Medical grade power supply

Contact SeeSense for best advice

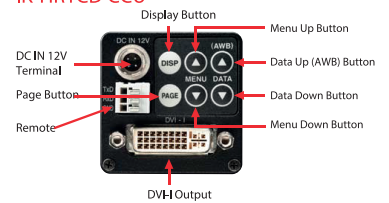


Side



Front

IK-HR1CD CCU



IK-HR1CS CCU



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