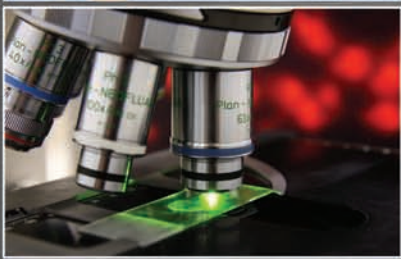


IK-HR2D

ULTRA COMPACT 1080p/60 FPS
CMOS HD CAMERA with USB
1080p / 1080i / 720p



Features

- Ultra compact (approx 1.75" x 1.75" x 3") one-piece system
- Outputs full 1920 x 1080 pixels at 60 frames per second
- Output selectable between 1080p, 1080i and 720p
- Utilizes 1/3" CMOS 2.1 megapixel HD sensor
- On-screen menu
- Weighs only 4.3 oz. (without lens)
- Digital DVI
- Auto and manual white balance
- Auto and manual electronic shutter
- C-mount
- USB 2.0 port outputs video clips and eliminates need for frame grabber

Applications

- Scientific imaging /diagnostics
- Microscopy
- Industrial

Real-Time 60 fps One-Piece CMOS High Definition Camera

Toshiba's new IK-HR2D CMOS-based hi-def color camera delivers true progressive scan real-time video with the ability to send video frames directly to your computer via USB. This compact, one-piece camera provides sharp, high-definition imagery. Let Toshiba bring your project to HD life.

TOSHIBA
Leading Innovation >>>

IK-HR2D

**TRUE 1080p
Hi-Def CAMERA with USB**

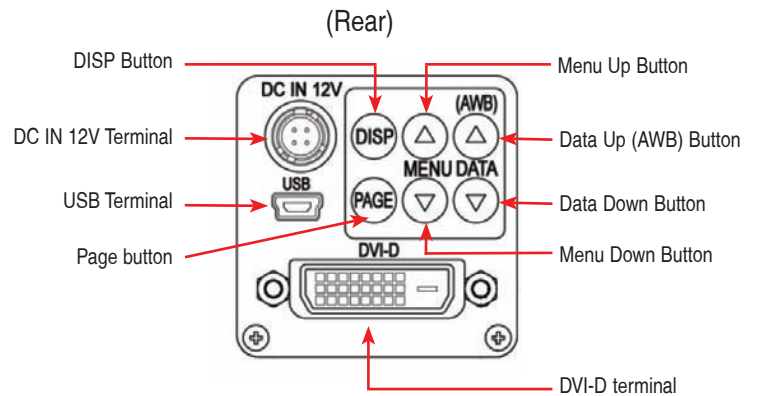
PERFORMANCE SPECIFICATIONS

Power Requirements	12 VDC ± 10% DCIN connector (4pin)	
Power Consumption	Approx. 4 watts	
Image Sensor	1/3" progressive scan CMOS	
Output Pixels	Horizontal: 1920, Vertical: 1080	
Scanning System	DVI output Digital output (DVI-D connector output)	
Sync / Freq	Progressive / Interlace	
	1080p/59.94Hz	H:67.43kHz, V:59.94Hz
	1080i/50Hz	H:56.25kHz, V:50Hz
	1080i/59.94Hz	H:33.72kHz, V:59.94Hz
	1080i/50Hz	H:28.13kHz, V:50Hz
	720p/59.94Hz	H:44.96kHz, V:59.94Hz
	720p/50Hz	H:37.50kHz, V:50Hz
	USB output (UVC1.1 compliant YUV 4:2:2)	
	Non-compressed	
	1920 x 1080	(approx. 5fps)
	1280 x 720	(approx. 10fps)
Sensitivity	f/4 standard (2000 lux, 3000K)	
Min. Illumination	8 lux standard (50 IRE, f1.4, gain + 18 dB)	
Frame Rate (DVI)	30 fps (1080i), 60 fps (1080p/720p)	
Frame Rate (USB)	5 fps (1080 mode), 10fps (720 mode)	
Dimensions	1.73"(W) x 1.73"(H) x 3.07"(D)	
Weight	148 grams (4.3 oz.)	
Operating Temperature	0 C to + 40 C	
Storage Temperature	-20 C to + 60 C	
Humidity	90% or less (non-condensing)	

SPECIFICATION - FEATURES

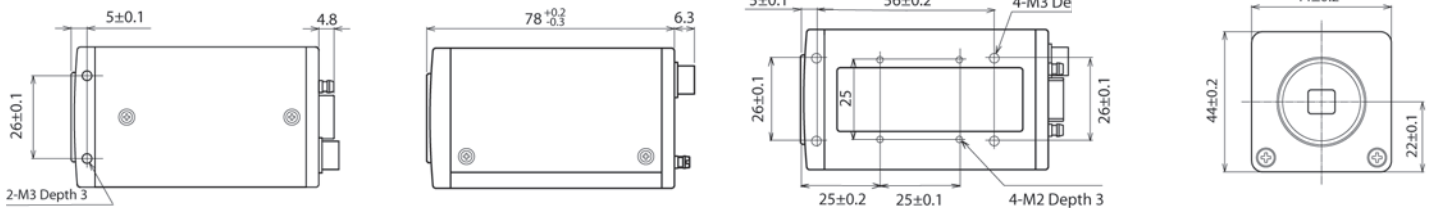
Shutter	Manual – Off (1/60s / 1/50s), 1/100s, 1/250s, 1/500s, 1/1000s, 1/2000s, 1/4000s, 1/8000s, 1/16000s, 1/32000s Auto Level – range of -100 to 100 Synchronized Scan – Set by horizontal scanning time
Gain	MANUAL (manual), OFF (0dB)
White Balance	AWB (Automatic White Balance) ATW (Automatic Tracking White Balance) Manual (Manually Adjustable)
Gamma	OFF / MANUAL : 0 to 12dB (1dB/step)
Scene File Setting	5 Files A/B/C/D/E

Design and specifications are subject to change without notice.



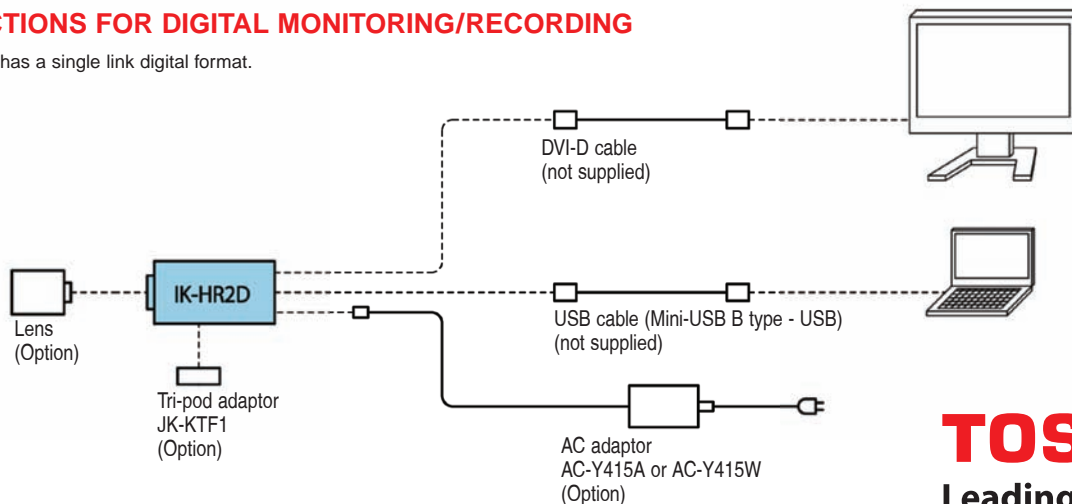
DIMENSIONS

Measurements in Millimeters



CONNECTIONS FOR DIGITAL MONITORING/RECORDING

DVI-D output has a single link digital format.



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This Class A digital apparatus complies with Canadian ICES-003.

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