

TOSHIBA

IK-HR1D



Introducing Toshiba's revolutionary new IK-HR1D CMOS-based high definition colour camera with **DVI-I output**

Delivering true 1080p progressive scan imagery from a compact, one-piece body it is ideal for imaging objects in motion, with little or no motion artifacts. Get incredibly sharp detail in a convenient, flexible system.

Applications:

Scientific imaging /diagnostics

Homeland security

Specialty broadcast, e.g.

- on-board camera
- Polecam
- head-cam
- news-copter
- sports
- reality TV



features

- 1/3" C-mount CMOS 2.1 megapixel sensor
- Outputs full 1920 x 1080 pixels at 60 fps
- Output switchable between 1080p & i
- Ultra compact (44 x 44 x 78 mm) one-piece system
- On-screen menu
- Weighs only 146 g (without lens)
- Digital DVI and Analog RGB interface
- Auto and manual white balance
- Auto and manual electronic shutter
- Detailed gain functionality
- Serial command setting via RS-232C
- Low power consumption
- Lens range available including 180° fish-eye
- Compatible with POLECAM Remote Control Panel



OFFICIAL DISTRIBUTOR FOR **TOSHIBA**

specifications

PERFORMANCE

Power Requirements	12 V DC \pm 10% (max voltage 16V DC) DCIN connector (4pin)
Power Consumption	Approx. 4.2 watts
Image Sensor	1/3" colour progressive scan CMOS
Effective Pixels	H:2000 V:1132
Output Pixels	Horizontal: 1920, Vertical: 1080p/i
Output Signal Frequency	Progressive (1080p)/ Interlace (1080i) Switchable [Progressive (1080p)] - H:67.43kHz, V:59.94Hz [Interlace (1080i)] - H:33.71kHz, V:59.94Hz
Resolution	750 TV Lines standard (H & V)
Sensitivity	F4 Standard (at 2000lx, 3000K, 1/60s)
Minimum Illumination	16 lx (50 IRE, F1.4, gain +18 dB, gamma setting ON (setting value), 3000 K)
SN Ratio	54 dB standard (gain) dB Y-conversion*)
Output signal	DVI-I (Digital RGB, Analog RGB) DVI-I terminal
Video Signal Output	Digital output (DVI-I connector output) 8bit X RGB Analog output (DVI-I connector output)
Sync system	Internal Analog output (DVI-I connector output)
Sync. Signal Output	H SYNC : 5V + 0.5 V / -1.0 V (Positive polarity)DVI-I terminal V SYNC : 5V + 0.5 V / -1.0 V (Positive polarity)DVI-I terminal
External Dimensions	44 (W) x 44 (H) x 78 (D) mm
Weight	146 g
Operating Temperature	0°C to + 40°C
Storage Temperature	-20°C to + 60°C
Humidity	Less than 90% (non-condensing)
FEATURES	
Shutter	Manual – Off (1/60s), 1/100s, 1/250s,1/500s, 1/1000s, 1/2000s, 1/4000s, 1/8000s, 1/16000s, 1/32000s Auto – Level in range of -100 to 100 Synchronized Scan – Set by horizontal Scanning time
Gamma	OFF / ON -10 ~ 0 ~ 10 step control
Gain	OFF / MANUAL : 0~18dB 1dB/step
White Balance	AWB (Automatic white balance) : 3200 K / 5600 K ATW (Automatic Tracing White Balance) : 3000 ~ 6000 K Manual (Manually Adjustable) 3200 K / 5600 K
Random Trigger, Ext Trigger	No
Video Signal Settings	Master pedestal, Gamma, Detail
Colour Bar Display	Yes
Scene File Setting	5 Files A/B/C/D/E
Remote Control	RS-232C: Baud rate 9600bps/19200bps
Lens mount	C-mount

E & O E

* The SN ratio is calculated using a Y signal. Because this camera outputs a RGB signal, the Y is calculated using the following mathematical formula: $Y=xR+yG+zB$ (where x, y and z are coefficients).
N.B. Design and specifications are subject to change without notice.

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