True 1080p One-Piece CMOS High Definition Camera.

Toshiba’s revolutionary new IK-HR1D CMOS-based hi-def color camera delivers true progressive scan imagery – from a compact, one-piece camera body. It is ideal for imaging objects in motion, with little or no motion artifacts. Get incredibly sharp detail in a convenient, flexible system. Let Toshiba bring your project to HD life.

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 and 1080i
- Utilizes 1/3” CMOS 2.1 megapixel sensor
- On-screen menu
- Weighs only 4.3 oz. (without lens)
- Digital DVI and Analog RGB interface
- Auto and manual white balance
- Auto and manual electronic shutter
- C-mount lens ready

Applications
- Scientific imaging / diagnostics
- Microscopy
- Industrial

TOSHIBA
Leading Innovation
Imaging Systems Division
TRUE 1080p Hi-Def CAMERA

IK-HR1D

SPECIFICATION - 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 – range of -100 to 100
- Synchronized Scan – Set by horizontal scanning time

Gain
- MANUAL (0dB to 12dB), OFF (0dB)

White Balance
- AWB (Automatic White Balance)
- ATW (Automatic Tracking White Balance)
- Manual (Manually Adjustable)

Gamma
- OFF / MANUAL (-10 to +10)

Scene File Setting
- 5 Files A/B/C/D/E

Remote Control
- RS-232C: Baud rate 9600bps/19200bps

Dimensions
- Measurements in Millimeters

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
- Progressive (1080p)/Interlace (1080i) Switchable
- [Progressive (1080p)] - H: 67.5kHz, V: 60Hz
- [Interlace (1080i)] - H: 33.75kHz, V: 60Hz

Sensitivity
- f/4 standard (2000 lux, 3000K)

Min. Illumination
- 8 lux standard (50 IRE, f1.4, gain +18 dB)

Frame Rate
- 30 fps (1080i), 60 fps (1080p)

Video Signal Output
- Digital output (DVI-I connector output) 8bit X RGB
- Analog output (DVI-I connector output)

Sync. System
- Analog output (DVI-I connector output)
- H: 5V + 0.5V/1.0V (p)
- V: 5V + 0.5V/-1.0V (p)

Dimensions
- 44(W) x 44(H) x 78(D) mm (1.73"(W) x 1.73"(H) x 3.07"(D)) (excluding protrusions)

Weight
- 146g (0.322 lbs.)

Operating Temperature
- 0˚C to + 40˚C (32˚F to 104˚F)

Storage Temperature
- -20˚C to + 60˚C (-4˚F to 140˚F)

Humidity
- 90% or less (non-condensing)

CONNECTIONS FOR DIGITAL MONITORING/RECORDING

DVI-I output has a single link digital format.

CONNECTIONS FOR ANALOG MONITORING

DVI-I output has an analog RGB output.

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IKHR1D 05-14 v2