

IK-HR19



Introducing Toshiba's revolutionary new IK-HR19 CMOS based high definition colour camera with **HD-SDI output**. Delivering 1080i and 720p switchable imagery from a compact, one-piece body this camera provides a high resolution picture with 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
- Goalcam

- 1/3" C-mount CMOS 2.1 megapixel sensor
- **Full HD-SDI output 1920 x 1080 pixels at 50/59.4 frames per second**
- **Output switchable between 720p and 1080i**
- Ultra compact (44 x 44 x 78 mm) one-piece system
- On-screen menu
- Weighs only 146 g (without lens)
- Lens range available including 1800 fish-eye
- Digital SDI
- Auto and manual white balance
- Auto and manual electronic shutter
- Detailed gain functionality
- Serial command function via RS-232C
- Low power consumption
- **Compatible with POLECAM Remote Control Panel**

Polecam Ltd
12 Wolseley Road
Woburn Road Industrial Estate
Kempston, Bedfordshire
MK42 7TN, UK

+44 (0)1234 855 222

+44 (0)1234 855 270

sales@polecam.com

www.polecam.com



Specifications

POLECAM



PERFORMANCE Power Requirements	12 V DC 10% (max voltage 16V DC) DCIN connector (4pin)
Power Consumption	Approx. 4.0 watts
Image Sensor	1/3" colour progressive scan CMOS
Effective Pixels	H:2000 V:1132
Output Pixels	Horizontal: 1920, Vertical: 1080 (Interlace) Horizontal: 1280, Vertical 720 (Progressive)
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	8 lx standard (50 IRE, F1.4, gain +18 dB, gamma setting ON (setting value 0), 3000 K)
SN Ratio	Undefined
Output signal	HD-SDI (SMPTE292M), 0.8 V (p-p) standard 75 ohms unbalanced BNC connector
Video Signal Output	SDI: (Serial Digital Interface) (BNC connector) Based upon SMPTE 292M
Sync system	Internal
Sync. Signal Output	None
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 1/100s, 1/125s, 1/250s, 1/500s, 1/1000s, 1/2000s, 1/4000s Auto - Peak / Average / Response speed / Area Synchronized Scan - [1080i mode] OFF, 2/1125H ~ 1123/1125H [720p mode] OFF, 2/750H ~ 748/750H
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