

IK-HD1



Toshiba's lightweight HD1080i - 50Hz/59.94Hz remote camera system with HD-SDI and analogue signal outputs.

This compact lightweight head provides truly excellent resolution and is complemented by the Fujinon compact range of TF 3-CCD lenses.

Ideal for speciality broadcast and other imaging applications:

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

- Remote head HDTV : Camera Head IK-HD1H and Camera Control Unit IK-HD1E
- HD-SDI and YUV/RGB Analogue Outputs
- Output Resolution: 1920 x 1080i - 50Hz/59.94Hz
- Digital Signal Processing (DSP)
- 65 gram Head Weight
- 5 User Scene File memories includes RS232C Control Capability
- Sensitivity f7.4 @ 2000Lx (50Hz mode)
- Six vector colour matrix adjust
- On Screen Display: Digital/ Analogue/Off (Menu display select)
- External Reference Input capability
- 12 volt DC operation
- Additional Accessories from Polecam Remote Control Panel (RCP) Full Frontal Filter System (FFFS) Additional HD-SDI output Camera mount base with Iris Drive Motor

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SPECIFICATIONS

POLECAM



Pick Up System	3-CCD, RGB f2.2 Micro Prism System
Image Sensor	IK-HD1H ~ 3 x 1/3-inch IT CCDs
Output Pixels	1920H x 1080i HDTV 50 / 59.94Hz (switchable)
Scanning System	2:1 Interlaced (1080i)
Scanning Frequency	[59.94Hz] Horizontal: 33.716KHz Vertical: 59.94Hz [50Hz] Horizontal: 28.125KHz Vertical: 50Hz
Scanning System	Internal / External Automatic Switching
Output Signals	Digital HD-SDI (SMPTE 292 M) Analog RGB or Y / R-Y / B-Y
Sensitivity	f7.4 @ 2000 Lux (50Hz) approx. 210 Lux at f2.2 / OdB (100% video out) approx. 105 Lux at f2.2 / +6dB Gain (100% video out) approx. 13 Lux at f2.2 / +18dB Gain (100% video out)
Signal/Noise Ratio	54dB (Gain @ OdB + DNR OFF)
Lens Mount	C-Mount (Flange back focal length 17.526 mm in air)
Operating Temperature	0-40° C (32-104° F)
Ambient Humidity	< 90% Relative
Scene Files (User Memories)	5 Files A/B/C/D/E
White Balance Modes	MAN: Manual (RED and BLUE adjust) AWB: Auto White Balance (Push to Set White) ATW: Auto Tracing White
Gain Modes	AUTO: Automatic Gain Control to +18dB (with upper limit set). MAN: Manual Gain Control in 1 dB steps to +18dB NORM: OdB / OFF
Electronic Shutter Modes	MAN: Manual Shutter 8 Steps, (1/100H to 1/10,000 sec) AUTO: Automatic Shutter (EEI / CCD Iris) SS: Synchro Scan 1/1125H - 560/1125H Adjustable 6 axis colour matrix circuit (R, G, B, Cy, Y, Mg)
Colour Matrix	HD-SDI (SMPTE 292M) Output x 1 to BNC Connector
Output Signals	Y / R-Y / B-Y 75 Ohm Unbalanced to BNC Connectors Red, Green and Blue 75 Ohm Unbalanced to BNC connectors (YUV / RGB Output Menu Selectable) Analog Sync Output to BNC Connector (Optional second HD-SDI Output available from Polecam)
External Sync Input	0.6volts: 75 Ohm Unbalanced, Sync Negative, BNC Connector
Sync Signal Output	0.6 +/- 0.1 volts (p-p) Negative Load Impedance 75 Ohms Unbalanced
On Screen Display Output	Selectable: Analog or Digital, both ON or both OFF
Remote Control Interface	RS-232C Serial Data Control Interface (9-pin Male D connector)
Optional Accessories from Polecam	Remote Control Panel (RCP), Filter System (FFFS), Additional HD-SDI output, Camera Mount Base with Iris Drive Motor
Power Requirements	12 Volts DC, 10.3 Watts (0.75 Amps)
Weight	IK-HD1H: 65g (Head) : IK-HD1E 750g (CCU)
Dimensions	IK-HD1H: 32.6mm (W) x 38.6mm (H) x 40mm (D) IK-HD1E: 110mm(H) x 40mm(W) x 186mm(D)



FFFS

3-CCD Lenses			
Part No.	Focal Length	F No.	H. View
TF2.8DA-8	2.8	F2.2-16	89° 09'
TF4DA-8	4.0	F2.2-16	61° 56'
TF8DA-8B	8.0	F2.2-16	33° 24'
TF15DA-8	15.0	F2.2-16	18° 11'
TF25DA-8B	25.0	F2.2-16	10° 58'

Camera Cables		
Part No.	Length	Diameter
EXC-HD03	3	5.5mm
EXC-HD06	6	5.5mm
EXC-HD10	10	5.5mm
EXC-HD30	30	5.5mm