

## Toshiba IK-HD2E Camera Control Unit

### Part #TO220

- The new Toshiba IK-HD2E HD remote head camera system is an enhancement of the world leading Toshiba IK-HD1 camera system. Toshiba have taken the CCU and have made it feature rich and improved its broadcast integration. New features include Manual User mask setting for Auto-Shutter (exposure) and white balance, Black Gamma level set, Edge detail output - great for focus assist, and Manual Red and Blue black balance adjust. It will also integrate with many existing RemoteControl Panels (RCP) including Polecams MKIV



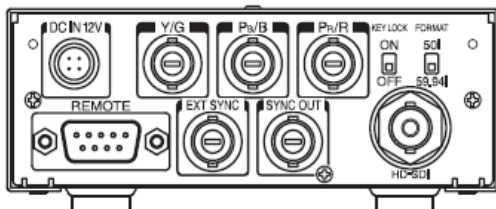
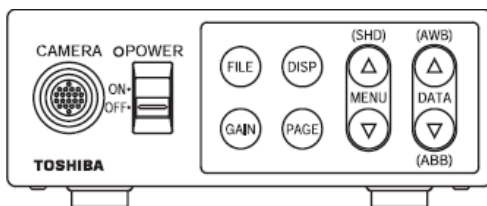
- Camera Head IK-HD1H does not change

- IK-HD2E Camera Control Unit European 50Hz/59.94Hz

- IK-HD1H camera heads marked with G2 can connect to both the IK-HD2E (Europe) and the IK-HD2C (typically USA)



- Features
- 1920 x 1080 output pixels
- 3CCD (1/3") Interlaced
- C-Mount
- Auto and Manual White balance
- Edge detail output
- Auto Shutter
- Black gamma set



- Applications
- Broadcast
- Medical
- Military
- Scientific
- Industrial Video & Inspection

Power supply	12V DC $\pm$ 10%
Power consumption	Approx. 10.3 W (Including a camera head, when the DC power supply is 12V)
Image-acquisition method	RGB, 3CCD, Micro prism system
Image sensor	1/3 inch, IT-CCD
Output pixels	Horizontal : 1920, Vertical : 1080
Scanning system	2 : 1 interlace
Scan frequency	[59.94 Hz setting] Horizontal : 33.716 kHz, Vertical : 59.94 Hz [50 Hz setting] Horizontal : 28.125 kHz, Vertical : 50 Hz
Sync system	Internal/External (Automatic switching)
Horizontal resolution	800TV lines standard
Vertical resolution	800TV lines standard
Sensitivity	F6.8 (59.94 Hz setting, 2000 lx, 3000 K), F7.4 (50 Hz setting, 2000 lx, 3000 K)
Minimum illumination	13 lx (59.94 Hz setting, F2.2, sensitivity + 18 dB), 11 lx (50 Hz setting, F2.2, sensitivity + 18 dB)
SN ratio	56 dB standard (gain 0 dB, DNR OFF)
Ambient temperature	0 °C to 40 °C (32 °F to 104 °F)
Ambient humidity	Less than 90% (non condensing)
Weight	Approx. 730 g (1.61 lbs)
External dimension	110(W) $\times$ 40(H) $\times$ 186(D) mm (4.33"(W) $\times$ 1.57"(H) $\times$ 7.32"(D)) (excluding protrusions)
Scene file (user memories)	5 files (A, B, C, D, E)
White balance	ATW (Automatic tracing white balance), AWB (Automatic white balance), MANUAL (Manual)
Gain	AUTO (Automatic gain control), MANUAL (Manual), OFF (0 dB)
Output signal	Y/P <sub>B</sub> /P <sub>R</sub> or RGB : 0.7 V (p-p) standard 75 $\Omega$ unbalanced, BNC connector HD-SDI (SMPTE 292M) : 0.8 V (p-p) standard 75 $\Omega$ unbalanced, BNC connector
External sync input	HD SYNC 0.6 V (p-p) 75 $\Omega$ unbalanced BNC connector [59.94 Hz setting] Horizontal : 33.716 kHz $\pm$ 35 ppm, Vertical : 59.94 Hz $\pm$ 35 ppm [50 Hz setting] Horizontal : 28.125 kHz $\pm$ 35 ppm, Vertical : 50 Hz $\pm$ 35 ppm
Sync signal output	SYNC : 0.6 V $\pm$ 0.1 V 75 $\Omega$ unbalanced BNC connector [59.94 Hz setting] Horizontal : 33.716 kHz $\pm$ 35 ppm, Vertical : 59.94 Hz $\pm$ 35 ppm [50 Hz setting] Horizontal : 28.125 kHz $\pm$ 35 ppm, Vertical : 50 Hz $\pm$ 35 ppm
Interface	Serial data interface (RS-232C)
Optional parts	IK-HD1H (1/3 inch 3CCD camera head) EXC-HD03 (Approx. 3 m (118") Camera cable) EXC-HD06 (Approx. 6 m (236") Camera cable) EXC-HD10 (Approx. 10 m (394") Camera cable) EXC-HD30 (Approx. 30 m (1181") Camera cable)