

TOSHIBA

PROFESSIONAL VISUAL PRODUCTS

FACTORY AUTOMATION

*3 CCD camera
for image
processing*

JK-TU62H

JK-TU63H

The Toshiba JK-TU62H/63H color video cameras are Toshiba's first 3CCD remote head cameras offered with digital output and 1/3" or 1/2" image sensors for machine vision, microscopy, endoscopy, broadcast and other image applications. Powerful resolution, interchangeable heads and digital imaging processing provide better image quality and versatility.

FEATURES

- remote heads 1/3" (JK-TU63H) or 1/2" (JK-TU62H) for PAL
- 3 CCD micro prism system
- 10 Bit digital signal processing
- 6 vector colour matrix adjust
- C-mount
- 64 dB signal to noise ratio
- F11 standard sensitivity (2000 lux, 3000K)
- Minimum illumination: 4 lux (F2.2 , sensitivity +20dB, 3000k)
- Interface: RS-232C serial interface
- LVDS (Low Voltage Differential Signaling)
- RGB or Y/P_R P_B , VBS OR Y/C output
- One or two pulse random trigger



IK-TU61/62H/63H

SPECIFICATIONS

Pick Up System	3CCD, RGB micro prism system
Image Sensor	IK-TU62H: 1/2-inch IK-TU63H: 1/3-inch
Effective Pixels	PAL: 752 x 582 NTSC: 768 x 494
Scanning System	2:1 Interlaced
Scan Frequency	Horizontal: 15,625 kHz Vertical: 50 Hz
Sync System	Internal/External Automatic Switching
Resolution	IK-TU62H: 800 Horizontal Television Lines IK-TU63H: 750 Horizontal Television Lines
Illumination Sensitivity	Minimum 1/2 inch: 4 Lux (F2.2, +20dB Gain Up, 3000 K). Nominal 1/2 inch: 2000 Lux, 3000 K Minimum 1/3 inch: 4 Lux (F2.2, +20dB Gain up, 3000 K). Nominal 1/3 inch: 2000, 3000 K
Signal/Noise Ratio	64dB standard
Lens Mount	C-Mount (Flange back focal length 17,526 mm in air)
Ambient Operating Temperature	0-40° C (32-104° F)
Ambient Humidity	< 90% Relative
White Balance Modes	ATW (Auto Tracing White) AWB (Push to Set White) MANUAL (Manual White)
Gain Modes	AUTO (Automatic Gain Control to +20dB) MANUAL (Manual Gain Control in 1 dB steps to +20dB) OFF (0dB)
Electronic Shutter Modes	MANU (Manual Shutter 8 Steps, 1/60 to 1/10,000 sec) AUTO (Automatic Shutter) SS (Synchro Scan) 1/525H - 260/525H, Integration to 3600 fields/frames Color Corrector 6 axis color enhancement circuit (R, G, B, Cy, Y, Mg)
Output Signals	VBS: 75 Ohm Unbalanced, BNC Connector, NTSC Standard Y/C: 75 Ohm Unbalanced, S-VHS Terminal RGB or Y/PR/PB: 75 Ohm Unbalanced, D-Sub 9 pin connector VBS or Y/C: 75 Ohm Unbalanced, D-Sub 9 Pin Connector LVDS, 10 bit/color, 120 Pin Molex Connector
Digital RGB:	
Ext. sync Output	
VBS/BB:	75 Ohm Unbalanced, Sync Negative, BNC Connector
Sync:	0.286V, Burst: 0.286V, HD or VD: 2-5V (p-p) Negative
Sync Signal Output Sync:	2.5V ± 1V (p-p) 75 Ohm Unbalanced
HD or VD:	5V +.5, -1.0 (p-p) Negative,
Load Impedance	>10K Ohms
Two Pulse Trigger Trigger:	Low = < .5V, High = 4-5V, Positive
Video Index Output Index:	Low = < .5V, High = 4-5V, Negative
Load Impedance	> 10K Ohms
Remote Control	Serial Data Interface (RS-232C Standard)
Optional Accessories	Camera Cables (3, 6, 10, 30 meters length), Power Supply (12VDC, .8A)
Power Requirements	12 VDC, .8 Amps
Weight	IK-TU61CU: 710g;

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