

IK-TU61



f e a t u r e s

Toshiba's first 3-CCD Remote Head

Camera system offered with digital

output and a choice of 1/2 inch or

1/3 inch image sensors

Powerful resolution, interchangeable heads and digital imaging provide better image quality and versatility

The Toshiba IK-TU61 colour video camera system is the ideal solution for broadcast, machine vision, microscopy and many other imaging applications

- Remote head with choice of 1/2 inch (JK-TU62H) or 1/3 inch (JK-TU63H) IT Exview™ HAD CCDs
- RGB Digital LVDS and RGB/YUV/YC/VBS Analogue Out
- Resolution 800TVL (JK-TU62H) / 750 TVL (JK-TU63H)
- 10-Bit Digital Signal Processing
- 63 dB signal-to-noise ratio
- Frame memory allows continuous video imaging in integration mode
- 0.02 Lux at 4 second exposure
- Six vector colour matrix adjust
- 24-step detail frequency/level adjust
- One or Two-pulse triggers
- Freeze frame memory
- C-Mount
- 12 Volt DC operation

TOSHIBA

IK-TU61

s p e c i f i c a t i o n s

Pick Up System	3-CCD, RGB Micro Prism System
Image Sensor	JK-TU62H: 1/2-inch IT Exview™ HAD CCD JK-TU63H: 1/3-inch IT Exview™ HAD CCD
Effective Pixels	752H x 582V PAL : (795H x 596V Total) (Pixel size 8.6µm x 8.3µm JK-TU62H : 6.5µm x 6.25µm JK-TU63H)
Scanning System	2:1 Interlaced
Scanning Frequency	Horizontal: 15.625 kHz Vertical: 50 Hz
Sync System	Internal/External Automatic Switching
Resolution	JK-TU62H: 800 TV Lines Y channel (560 TV Lines RGB) JK-TU63H: 750 TV Lines Y channel (560 TV Lines RGB)
Sensitivity	JK-TU62H: 2000 Lux at F11 (42 Lux F1.6, 0dB Gain 1/50 sec 100% video out) 0.42 Lux at F1.6 +20dB / 0.042 Lux at F1.6/+20dB/100F Slow Shutter JK-TU63H: 2000 Lux at F11 (53 Lux at F1.8, 0dB 1/50 sec. 100% video out) 0.53 Lux at F1.8 +20dB / 0.053 Lux F1.8/+20dB/100F Slow Shutter
Signal/Noise Ratio	63dB
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)	Three (A, B and C)
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 +20dB (with upper limit set adjust). MAN: Manual Gain Control in 1 dB steps to +20dB NORM: 0dB / OFF
Electronic Shutter Modes	MAN: Manual Shutter 8 Steps, (1/50 to 1/10,000 sec) AUTO: Automatic Shutter (EEI/CCD Iris) SS: Synchro Scan 1/625H - 310/625H Slow Shutter 1V - 255V (0.020 - 10 seconds)
Colour Matrix	Adjustable 6 axis colour matrix circuit (R, G, B, Cy, Y, Mg)
Output Signals	VBS: 75 Ohm Unbalanced, BNC Connector, PAL Standard Y/C: 75 Ohm Unbalanced, 4-pin S (Mini DIN Terminal) RGB or YUV: 75 Ohm Unbalanced, D-Sub 9 pin connector VBS or Y/C: 75 Ohm Unbalanced, D-Sub 9 Pin Connector Digital RGB: LVDS, 10 bit/colour, 120 Pin Molex Connector (Molex Part Numbers 550321200/584231200 Plug/Shell)
External Sync Input	VBS: 75 Ohm Unbalanced, Sync Negative, BNC Connector Sync: 0.3V, Burst: 0.3V, HD and VD: 2-5V (p-p) Negative
Sync Signal Output	Sync: 2.5V (p-p) 75 Ohm Unbalanced HD or VD: 5V (p-p) Negative Load Impedance >10K Ohms
Two Pulse Trigger	Trigger: Low = < 0.5V, High = 4-5V, Positive
Video Index Output	Index: Low = < 0.5V, High = 4-5V, Negative (Flash trigger output etc) Load Impedance > 10K Ohms
Remote Control Interface	RS-232C Serial Data Control Interface
Optional Accessories	Camera Cables (3, 6, 10, 20, 30 meter lengths), Power Supply (12VDC, 1.7A)
Power Requirements	12 VDC, 0.8 Amps
Weight	IK-TU61CU: 710g ; IK-TU63H 55g ; IK-TU62H 80g
Dimensions	IK-TU61CU: 110mm (W) x 40mm (H) x 156mm (D) JK-TU63H: 40mm(H) x 32.5(W) x 40.2mm(D) JK-TU62H: 42mm(H) x 34(W) x 46.5mm(D)

Exview™ is a registered trademark of the Sony Corporation Design and Specifications are subject to change without notice.

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