

IK-52V/IK-53V



f e a t u r e s

**Finally, an “Ice Cube” camera
with Progressive Scan
and VGA resolution!**

*Incredibly small, the IK-52V and
IK-53V deliver better results than
cameras twice their size*

The Toshiba IK-52V and IK-53V combine non-interlaced Progressive Scan imaging with ultra-compact dimensions for superior performance in a wide range of quality-sensitive applications.

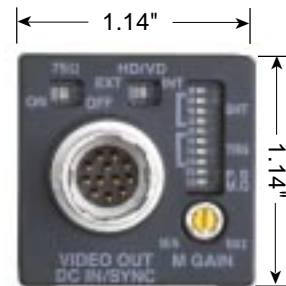
- Progressive Scan
- VGA output to frame grabber or direct to a VGA Monitor
- (1/60 sec. Non Interlaced)
- Measures only 29mm square
- Weighs 46g (1.59 oz.)
- 1/3-inch (IK-53V) and 1/2-inch (IK-52V) CCD formats
- C-Mount Lens Mount
- 659(H) x 494(V) resolution
- 1 lux@F1.4 sensitivity
- 60 dB S/N Ratio

Imaging Video Products Group
TOSHIBA

IK-52V/IK-53V

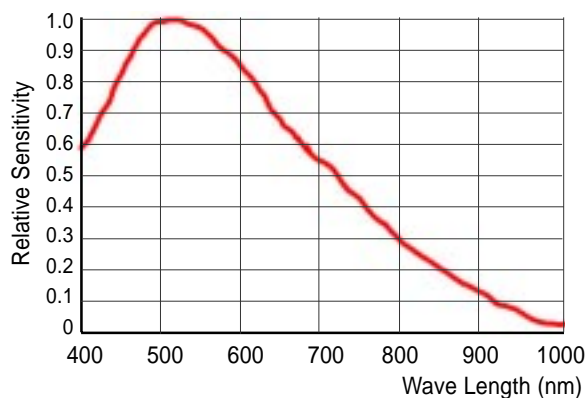
specifications

Power Supply	12 VDC (+10.5VDC - +15VDC)
Power Consumption	120mA (DC + 12V)
Image Sensor	IK-52V: Progressive Scan 1/2 inch CCD IK-53V: Progressive Scan 1/3 inch CCD
Effective Pixels	659 (H) x 494 (V)
Horizontal Resolution	500 TV Lines
Pixel Size	IK-52V: 9.9 μm (H) x 9.9 μm (V) IK-53V: 7.4 μm (H) x 7.4 μm (V)
Scan Frequency	Horizontal: 31.469 kHz, Vertical: 59.94 Hz
Synchronizing System	Internal/External (HD/VD) (HD/VD inut/output area selected by rear panel switch)
Sync Modes	All pixels scanning, Partial scanning, 1-pulse trigger sync-reset, Pulse width trigger sync-reset, 1-pulse trigger sync-nonreset, Pulse width trigger sync-nonreset, Reset restart
Standard Subject Illumination	400 lux F5.6 (Gain off)
Minimum Subject Illumination	1 lux, F1.4, manual gain set to maximum
S/N Ratio	60dB
Video Output	1.0V (p.p)
Output Impedance	75 Ohm, unbalanced
IR Filter	None
Lens Mount	C-Mount
Gain Switch	Off (0dB) / On (0 to 18dB)
Electronic Shutter Settings	Off (1/60), 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, 1/50000, 1/100000
Rear Panel Settings	Mode/Sensitivity/Sync in-out
Weight	45g (1.59 oz.)
Dimensions	29mm (W) x 29mm (H) x 29mm (D)
Connector	Hirose Part Number: HR10A-10R-12PB
Environmental	Operating Temperature: 0° to +40° Centigrade Storage Temperature: -20° to +60° Centigrade Humidity: less than 90% relative Vibration: 70m/S ² (10 to 200 Hz) Shock; 700m/S ²



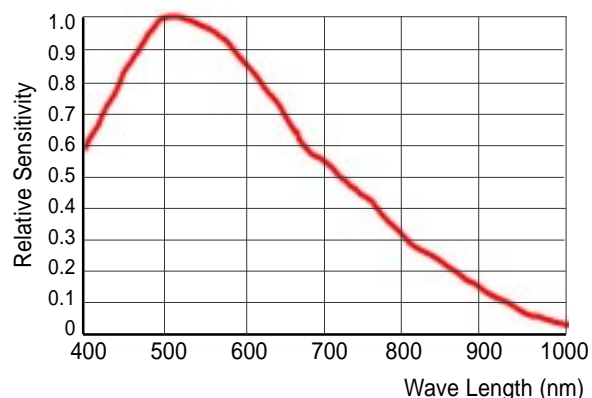
Spectra Sensitivity Characteristics

IK-53V 1/3-Inch CCD Camera



Spectra Sensitivity Characteristics

IK-52V 1/2-Inch CCD Camera



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