

# IK-TF1



## f e a t u r e s

### **Toshiba's Economically Priced One Piece Three CCD Camera Optimized For Image Processing**

*New IK-TF1 produces new levels of  
precise and detailed RGB images from  
a compact, light weight design*

The Toshiba IK-TF1 is well suited for color image processing and high speed machine vision. The Co-Site Sampling (spatial congruent) arrangement of the 3 CCD's captures accurate computer ready color images.

- 3 CCD Micro Prism System
- C-Mount
- 64 dB Signal to Noise
- 10 Lux Sensitivity
- 1/60 to 1/50,000 sec. 9 Step Shutter
- RS-232 Serial Interface
- One or Two Pulse Random Trigger
- RGB Output
- Lightweight (5.47oz)

Imaging Video Products Group

# TOSHIBA

# IK-TF1

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

Pick Up System	3CCD, RGB Micro Prism System
Image Sensor	1/3-inch, 410,000 pixel IT-CCD
Effective Pixels	768 H x 494V
Scanning System	2:1 Interlaced
Scan Frequency	Horizontal: 15.734 kHz Vertical: 59.94 Hz
Sync System	Internal/External (Automatic Switching)
Resolution	570 horizontal Television Lines
Sensitivity	Minimum 10 lux (F2.2, +18dB Gain up) Normal: 2000 lux (F8)
Signal/Noise Ratio	64dB
Lens Mount	C-Mount (Flange back focal length 17.526 mm)
Ambient Operating Temperature	0-40° C (32-104° F)
Ambient Humidity	< 90% Relative
White Balance Modes	AWB (Auto White balance) 3200k/5600k selectable MANU (Manual White)
Gain Modes	OFF MANU (Gain control in 1dB steps from -3 to 18dB)
Electronic Shutter Modes	MANU (Manual Shutter, 1/60 to 1/50,000 sec) Synchro Scan
Output Signals	RGB: 75 Ohm Unbalanced, D-Sub 15 pin connector
External Sync Output	HD or VD: 2-5V (p-p) Negative 75 ohm at termination RS: L level <0.4V, H Level 3.4-5V
Sync Signal Output	Sync: 2.5V ± 0.5V (p-p) Negative 75 Ohm Unbalanced HD or VD: 4.0-5.5V (p-p) Negative, Video index, 4.0-5.5V (p-p) Negative
Random Trigger	1 pulse sync non reset; 1 pulse sync reset, 2 pulses (rising edge/falling edge, Width selectable)
Remote Control Interface	Serial Data Interface (RS-232C)
Dimensions	44mm (W) x 44mm (H) x 78mm (D), 1.7 (W) x 1.7 (H) x 3.1 (L) inch
Weight	5.47 oz. (155g)
Power Requirement	12V DC ± 10%
Power Consumption	3.6 W
Standard	FCCC class A, CE

# TOSHIBA

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