

IK-TF5



f e a t u r e s

Toshiba's First Progressive Scan Three Chip Color Camera

*IK-TF5 images accurate color and
produces maximum spatial resolution
of fast moving objects*

This compact one piece camera is ideally designed to capture high resolution color images of high speed machine vision processes. Image-jitter is eliminated through the use of Progressive Scan CCD's. The TF-5 has a Partial Scan mode that can output 180 frames per second.

- Three Progressive Scan CCD's
- RS-232 (9600 or 19200 BAUD rate)
- 180 Frames/Sec Partial Scan Output
- 1/100 to 1/100,000 Sec. Electronic Shutter
- One or Two Pulse Random Trigger
- C-Mount
- Square Pixels
- Lightweight (5.74 ozs.), Compact Design
- Economically Priced

Imaging Video Products Group

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IK-TF5

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

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|------------------------------------|---|
| Pick-up system | 3 CCD RGB Micro Prisms |
| Image sensor (Effective Pixels) | 1/3 inch CCD (Horizontal: 659 Pixels, Vertical: 494 Pixels) |
| Pixel Size | 7.4 μm (H) x 7.4 μm (V) |
| Scanning System | Progressive Scan |
| Scan Frequency | Horizontal: 31.469 kHz; Vertical: 59.94 Hz |
| Sync System | Internal/External (Automatic Switching) |
| Horizontal Resolution | 500 TV Lines |
| Sensitivity | F6.8 Standard (2000 lx, 3000K) |
| Minimum Illumination | 14 lx (F2.2, Sensitivity + 18 dB, 3000K) |
| SN Ratio | 62 dB Standard (G) |
| Lens Mount | C mount (Flange Back: 17.526 mm in-air) |
| Ambient Temperature | 32 to 104° F (0 to 40° C) |
| Ambient Humidity | Less than 90% |
| White Balance | AWB (Automatic White Balance) MANUAL (Manual) 3200k or 5600k Selectable |
| Gain | OFF (0 dB), Manual (-3 to 18dB) |
| Electronic Shutter | Manual (1/100 to 1/100,000 sec.) Synchro Scan (1 to 512 Frames) |
| Output Signal | RGB: 75 Ω unbalanced, D sub 15 Pin Connector |
| External Sync Input | HD or VD: 2-5V(p-p) Negative |
| Sync Signal Output | SYNC: 2.0V \pm 1 V(p-p) 75 Ω unbalanced HD, VD, INDEX: 5V $\begin{smallmatrix} +0.5 \\ -1.0 \end{smallmatrix}$ V(p-p), Negative Load Impedance: More than 10kW |
| External Trigger Input | TRIGGER: Low level: Less than 0.4V, High level: 3.4.-5V 1 Pulse: Positive/Negative/Width selectable 2 Pulse: Positive/Negative/Width selectable |
| Interface | Serial Data Interface (RS-232C); BAUD Rate (9600 or 19200) |
| External Dimension | 1.73" (W) x 1.73" (H) x 3.07" (D) (44 (W) x 44 (H) x 78 (D) mm) (except for protruded portion) |
| Weight | Approx. 5.74 oz. (165 g) |
| Power Supply | DC 12V \pm 10% |
| Power Consumption | Approx. 4.3W |
| Standard | FCC Class A, CE |

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