TIGER
INTELLIGENT CAMERA SERIES

T4840 CCD 16 MP

Camera Link®



Imperx: T4840

The Tiger T4840 CCD camera is an advanced, ruggedized, and economical digital camera providing 4864 x 3232 resolution and frame rates up to 7.9 frames per second. The camera features programmable image resolution, frame rates, gain, offset, external triggering, strobe output, transfer function correction, temperature monitoring, and user programmable and uploadable LUT. The camera is fully field upgradable. Optional active forced air cooling available.

Specifications

| Description | Feature | Description |
|--|--|--|
| Camera Link Medium, CoaXPress | Data Corrections | Bad pixel correction, 12-bit LUTs, 2 FFC, black |
| 4864 x 3232; 4880 x 3232 max | | level, vertical smear |
| ON Semiconductor KAI-16070 color/mono/ | | 1 Lux, F/ 1.4 |
| Sparse CFA | Lens Mount | F-Mount (Default), M42, EOS Canon |
| CCD, 43.2mm | Supply Input Range | 12VDC (6V - 30V), 1.5 A inrush |
| 7.4 µm | Power Consumption | 7.5 W (typ) |
| 7.9 fps | Size (WxHxL) | 69.5mm x 69.5mm x 51.5mm |
| 70 dB | Weight | 450g |
| 8, 10, 12 bit | Vibration, Shock | 100G (20-200Hz) XYZ/ 1000G |
| 12 electrons rms | , , | |
| Manual, Auto: 0-36dB | The state of the s | 20G (20-200Hz) XYZ / 200G |
| Manual, 1024 steps, Auto | , | 40004 05000 11 50004 0000 |
| 1x to 4x, 0.001x steps | (Ruggedized) | -40°C to +85°C Operating, -50°C to +90°C Storage |
| -512 to +511 | Environmental | -10°C to +60°C Operating, -50°C to +90°C |
| Manual, auto, off | (Industrial) | Storage |
| 1/100,000 to 1/5 sec (nom) in 1 µs steps | Humidity | 10% to 90% non-condensing |
| Manual, Auto, External | MTBF | TBD |
| Up to 16 seconds | Regulatory | FCC Part 15 Class A, CE, RoHS |
| 2 ROIs, any line to any line, any pixel to any pixel | | |
| 1x, 2x, 4x (Independent for H & V) | | |
| External, pulse generator, software, computer | | |
| Edge, pulse width, trigger delay, debounce | | |
| Standard, double, fast | | |
| 2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL) | | |
| 2 strobes, programmable position and duration | | |
| Yes, programmable | | |
| | Camera Link Medium, CoaXPress 4864 x 3232; 4880 x 3232 max ON Semiconductor KAI-16070 color/mono/ Sparse CFA CCD, 43.2mm 7.4 µm 7.9 fps 70 dB 8, 10, 12 bit 12 electrons rms Manual, Auto: 0-36dB Manual, 1024 steps, Auto 1x to 4x, 0.001x steps -512 to +511 Manual, auto, off 1/100,000 to 1/5 sec (nom) in 1 µs steps Manual, Auto, External Up to 16 seconds 2 ROIs, any line to any line, any pixel to any pixel 1x, 2x, 4x (Independent for H & V) External, pulse generator, software, computer Edge, pulse width, trigger delay, debounce Standard, double, fast 2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL) 2 strobes, programmable position and duration | Camera Link Medium, CoaXPress 4864 x 3232; 4880 x 3232 max ON Semiconductor KAI-16070 color/mono/ Sparse CFA CCD, 43.2mm 7.4 µm 7.9 fps 70 dB 8, 10, 12 bit 12 electrons rms Manual, Auto: 0-36dB Manual, 1024 steps, Auto 1x to 4x, 0.001x steps -512 to +511 Manual, auto, off 1/100,000 to 1/5 sec (nom) in 1 µs steps Manual, Auto, External Up to 16 seconds 2 ROIs, any line to any line, any pixel to any pixel 1x, 2x, 4x (Independent for H & V) External, pulse generator, software, computer Edge, pulse width, trigger delay, debounce Standard, double, fast 2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL) 2 strobes, programmable position and duration |

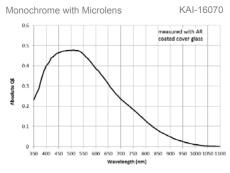


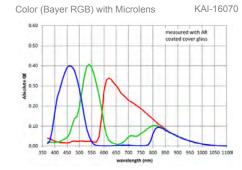
Imperx: T4840 Applications

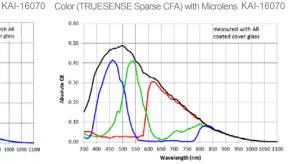
The T4840 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

Aerospace • Satellites • Surveillance • Military and Non-Military Ground Vehicles • Ball Grid Array • Printed Circuit Board Inspection • Motion Analysis • Broadcast Television • Telepresence • Unmanned Aerial Vehicles • Machine Vision • Reconnaissance • Intelligent Traffic Systems • Aerial Imaging • Open Road Tolling Systems • Situational Awareness • Scientific • Particle Velocity

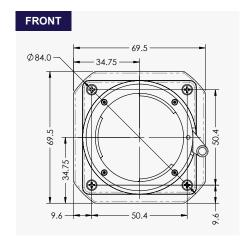
Absolute Quantum Efficiency

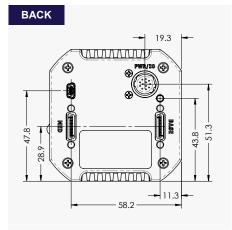


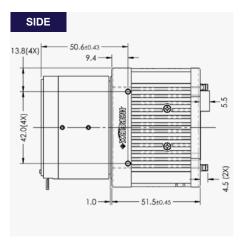




Dimensions





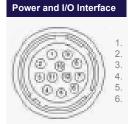


Ordering Information



| Lens Mounts | | |
|---|------------|--|
| F-Mount (default) | EF Canon | |
| M42 | | |
| Ordering | | |
| Ruggedized | Industrial | |
| Accessories (Sold separately) | | |
| PS12v04A-Power Supply w/ 1 input and 1 output | | |

Hirose Connectors



- 1. 12V DC Return
 2. +12V DC
- 2. +12V DC 3. Reserved
- Reserved
 OUT2 OPTO -
- OUT2 OPTO OUT1 TTL Gnd
- 7. OUT1 TTL Signal
- 8. IN1 OPTO + 9. IN2 TTL Signal
- 10. IN1 OPTO -11. IN2 TTL Gnd
- 12. OUT2 OPTO +

Connector: Hirose HR 10A-10R-12PB(71)

* Not Connected for CXP



Camera Link GUI





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WWW IMPERX COM

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