TIGER INTELLIGENT CAMERA SERIES

T3340 CCD 8 MP

Camera Link®



Imperx: T3340

The Tiger T3340 CCD camera is an advanced, ruggedized, and economical digital camera providing 3296 x 2472 resolution, frame rates up to 21 fps. The camera features programmable image resolution, frame rates, gain, offset, external triggering, strobe outputs, transfer function correction, temperature monitoring, and user programmable LUTs, FFC, and Defect Correction Tables. The camera is fully field upgradable with optional forced air cooling available.

Specifications

Feature	Description	Feature	Description
Output Interface	Camera Link® Medium w/PoCL®	Data Correction	Bad pixel correction, four 12-bit LUTs, 2 FFC,
Resolution	3296 (H) x 2472 (V), 3320 (H) x 2496 (V) max		Black level, Vertical smear
Sensor	ON Semiconductor KAI-08051 Color/Mono/	Minimum Illuminations	1 Lux, F/ 1.4
	Sparse CFA	Lens Mount	F-Mount (Default), C-Mount, M42, EOS Canor
Sensor Format	CCD, 4/3"	Supply Voltage Range	12 VDC (6 V - 30 V), 2.5 A inrush
Pixel Size	5.5 microns square	Power Consumption	7.8 W
Frame Rate	21 fps	(Ruggedized)	
Dynamic Range	66 dB	Power Consumption	8.4 W
Output Bit Depth	8-bit, 10-bit, 12-bit	(Industrial)	
Noise	10 electrons rms	Size - Width/Height/Length 69.5 mm (W) x 69.5 mm (H) x 51.5 m	69.5 mm (W) x 69.5 mm (H) x 51.5 mm (L) (Ruggedized, no fan)
Analog Gain Control	Manual, Auto (Rug.): 0 – 30 dB (Ruggedized), 0 – 24 dB (Industrial)		69.5 mm (W) x 76.3 mm (H) x 51.5 mm (L) (Industrial, with fan)
Black Level Control	Manual, 1024 steps, Auto		(maddian, with lan)
Digital Gain	1x - 4x, 0.001x steps	Weight	450q
Digital Offset	-512 to +511, 1 step increments	Vibration, Shock	100G (20-200 Hz) XYZ/ 1000G
AEC/AGC	Yes (Ruggedized)	(Ruggedized)	1000 (20-200 Hz) X12/ 10000
White Balance	Manual, Auto, Off	Vibration, Shock	20G (20-200 Hz) XYZ / 200G
Shutter Speed	1/100,000 to 1/21 s (nom) in 1 µs steps	(Industrial)	,
Exposure Control	Auto (Ruggedized), External, Internal	Environmental -40 °C to +85 (Ruggedized) Storage	-40 °C to +85 °C Operating, -50 °C to +90 °C
Long Integration	Up to 16 seconds		Storage
Regions of Interest (ROI)	2 ROIs (Ruggedized) or 1 ROI (Industrial). Any line to any line, any pixel to any pixel	Environmental (Industrial)	-10 °C to +60 °C Operating, -50 °C to +90 °C Storage
Binning H/V	1x, 2x, 4x (Independent for H & V)	Humidity	10% to 90% non-condensing
Trigger Inputs	External, Pulse generator, Software, Computer	MTBF	TBD
Trigger Options	Edge, Pulse width, Trigger filter, Trigger delay, Debounce	Regulatory	FCC Part 15 Class A, CE, RoHS
Trigger Modes	Standard, Double, Fast		
External Inputs/Ouputs	2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)		
Strobe Output	2 strobes (Ruggedized) or 1 strobe (Industrial). Programmable position and duration		
Pulse Generator	Yes, programmable		



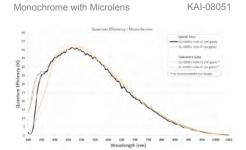
Imperx: T3340 Applications

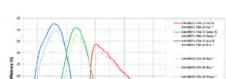
The T3340 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

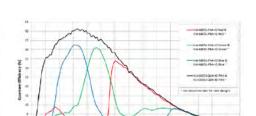
Color (Bayer RGB) with Microlens

Aerospace • Satellites • Surveillance • Military and Non-Military Ground Vehicles • Ball Grid Array • Printed Circuit Board Inspection Traffic Systems ● Aerial Imaging ● Open Road Tolling Systems ● Situational Awareness ● Scientific ● Particle Velocity

Absolute Quantum Efficiency

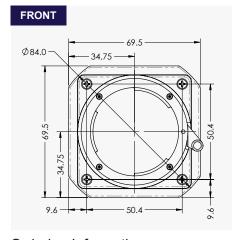


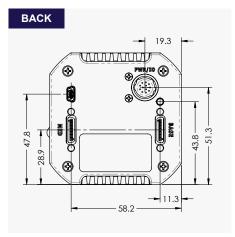


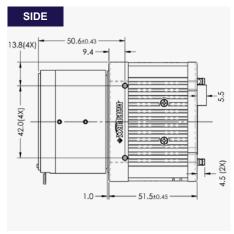


KAI-08051 Color (TRUESENSE Sparse CFA) with Microlens KAI-08051

Dimensions







Ordering Information

w/PoCL®

Lens Mounts			
F-Mount (default)	M42		
C-Mount	EF Canon		
Ordering			
Ruggedized	Industrial		
Accessories (Sold separately)			
PS12V04A-Power Supply w/ 1 input and 1 output			

Hirose Connectors



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

Rev: cl_t3340_r2_2019



Camera Link GUI





IMPERX 6421 Congress Ave., Boca Raton, FL 33487, USA Tel: +1-561-989-0006. Email: sales@imperx.com

WWW IMPERX COM

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