Tiger T8882
47 meg
CCD Camera

Imperx: T8882 is an advanced progressive scan, fully programmable CCD camera.

Designed for imaging applications that require high quality images, T8882 offers powerful features and flexibility. The camera is small, light weight, and built around the TRUESENSE Imaging KAI-47051 CCD image sensor. The T8882 provides an image resolution of 8880 x 5304 and delivers up to 7 frames per second at full resolu-tion. The camera's 12 bit internal data image processing engine is based on an industrial grade high-speed, high-density FPGA, enabling a broad standard feature set and easy implementation of demanding custom imaging solutions.

Specifications

Feature	Description
Interfaces available	Camera Link® Full, USB3 Vision, CoaXpress
Resolution	8856 x 5280 (std.), 8880 x 5304 (max.)
Sensor	KAI-47051 CCD Mon/Color Sparse CFA
Sensor Format	48.7mm (H) x 29.0mm (V); 56.7mm (diagonal)
Pixel Size	5.50 µm
Frame Rate	7 fps
Clock Rate	40 MHz
Dynamic Range	66 dB
Bit Depth	8/10/12:bit
Analog Gain Control	0-25 dB
Black Level Control	0 to 255, 256 steps
White Balance	Auto,Once/Manual
Shutter Speed	1 µs steps, 1/125,000 to 1/8 sec (nom)
Exposure Control	Manual, Internal
Long Integration	Up to 16 seconds
ROI	Any ROI to 2x2, any X&Y offset
Binning H/V	Up to 16 seconds
Regions of Interest (ROI)	7 ROIs, any line to any line, any pixel to any pixel
Binning H/V	1x1, 1x2, 2x1, 2x2 (Independent)
Trigger Inputs	Software, computer, external via IN1/IN2, Pulse Generation
Trigger Options	Edge, pulse width, internal exposure
Trigger Modes	Free-run, standard, fast, frame accumulation
External Inputs/Outputs	IN1: opto-isolated, IN2: LVTTL/TTL, OUT1: TTL OUT2: MOS relay
Strobe Outputs	2 strobes, programmable polarity, position and duration

Feature	Description
Pulse Generator	Yes, Programmable
Image Enhancements	Two 12-bit LUTs, user programmable, G=1.0, G=0.45
Data Corrections	Defective pixel, hot pixel, flat field corrections and smear
Minimum Illuminations	1 Lux, F/1.4
Lens Mount	TBD
Supply Input Range	12VDC (6-30V), 1.5A inrush
Power Consumption	TBD
Size	80 x 80 x 60 mm (without bezel)
Weight	TBD
Vibration, Shock (Ruggedized)	100g (20-200) HZ XYZ, 1000G
Vibration, Shock (Commercial)	N/A
Environmental (Ruggedized)	-40°C to +85°C Operating, -50°C to +90°C Storage
Environmental (Commercial)	10°C to +50°C Operating, -50°C to +90°C Storage
Humidity	10% to 90% non-condensing
MTBF	>660,000 hours @ 40°C (Telcordia SR-332)
Regulatory	FCC part 15 Class A, CE, RoHS

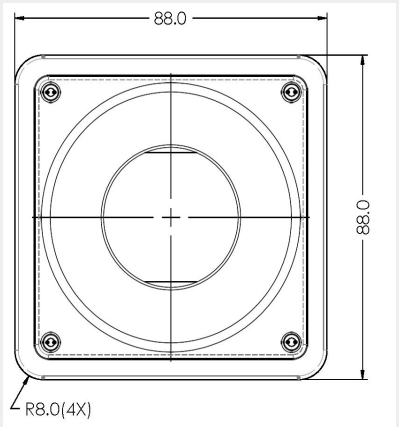
IMPERX™
Industrial Cameras & Imaging Systems

Applications perfect for the T8882 :

Because of it's low noise, highly uniform CCD with up to 16 seconds long integration and frame rates up to 7fps, the T8882 47MP is the essentila camera for todays demanding Flat Panel Inspection Systems. With Dynamic range of 66dB adn extended Temperature, Shock and Vibrations range, the T8882 is also ideal for Space based and Aerial Imaging as well as Persistent Surveillance.

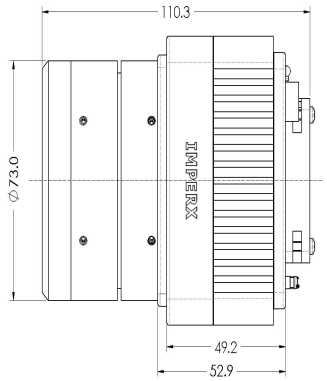
Dimensions

Front

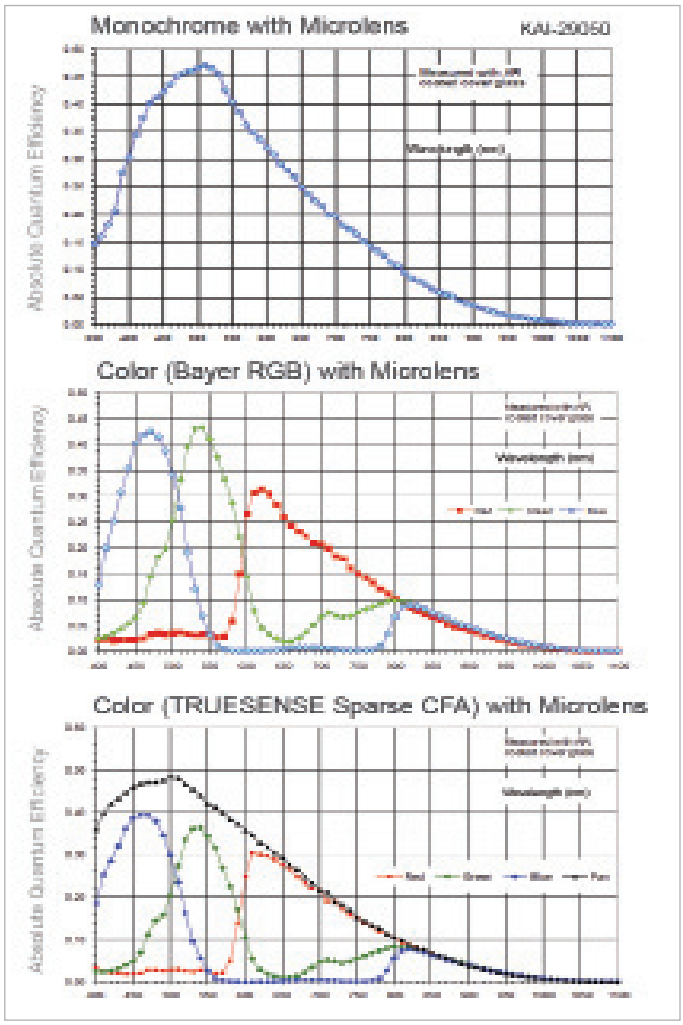


Back

Side

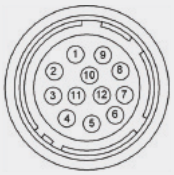


Absolute Quantum Efficiency



Hirose Connectors

Power and I/O Interface



1. 12V DC Return *	7. OUT1 Signal
2. +12V DC*	8. IN1 Signal
3. IRIS VCC	9. IN2 Signal
4. IRIS Video	10. IN1/2 Return
5. IRIS Return	11. Reserved
6. OUT1/2 Return	12. OUT2 Signal

*Not connected for CXP
Connector: Hirose HR 10A- 10R- 12PB(71)

Ordering Information

Interfaces available Camera Link® FULL(CLF)
USB3 Vision, CoaXPress (CXP)

Sensor types available
Monochrome
Bayer Color
TRUESENSE Sparse CFA

Accessories (Sold separately)
PS12v04-Power Supply w/ 1 input and 1 output
PS12v05-Power Supply (as above) and Video Iris

Quality Management System ISO 9001:2008 Registered
Environmental Management System ISO 14001:2004 Registered
DDTC Registered (Directorate of Defense Trade Controls, US Department of State)

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