

CHEETAH

RUGGEDIZED CAMERA SERIES

C2420 CMOS 5 MP

Camera Link®



Imperx: C2420

The CLF-C2420 camera features the Sony Pregius IMX-250 Global Shutter CMOS sensor with a native resolution of 2464 x 2056 in a 2/3" optical format delivering up to 97 frames per second with a Camera Link® Full, PoCL output. The Sony Pregius image sensor delivers outstanding sensitivity and excellent image quality. Imperx puts you in control by providing full access to raw data without corrections. Using the simple intuitive graphical user interface, you can quickly apply or remove image corrections. The C2420's flexibility, image quality, and speed make it suitable for a broad range of diverse and demanding applications, but "one size doesn't fit all," and Imperx can help optimize the camera to your exact requirements.

Specifications

Facture	Description	Facture	Description
Feature	Description	Feature	Description
Output Interface	Camera Link® Base, Medium, Full w/PoCL®	Strobe Output	2 strobes, programmable position and duration
Resolution	2464 (H) x 2056 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX250 CMOS Color/Mono	Data Correction	4 LUTs pre-programmed with Gamma 0.45;
Sensor Format	8.4mm (H) x 7.1mm (V), 2/3" optical format		Bad pixel correction (static, dynamic) Flat field correction
Pixel Size	3.45 microns square	Lens Mount	C-Mount (default)
Shutter	Global shutter (GS)		,
Sensor Digitization	8, 10, 12-bit	P-IRIS	Optional
Frame Rate	97 fps (8-bit), 79 fps (10-bit), 35 fps (12-bit)	P-IRIS Control	Auto, Programmable
Dynamic Range	71 dB	Supply Voltage Range	12 V DC (5 V – 30 V), 1.5 A inrush
Output Bit Depth	8, 10, 12-bit	Power Consumption	Typical: 2.4 W
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	Camera Current	Typical: 200 mA @ 12 V
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of	PoCL	PoCL capable in Base/Medium/Full mode
3	0.001x	Size - Width/Height/Length	37.0 mm (W) x 37.0 mm (H) x 48.6 mm (L)
Black Level Offset	Manual (0 – 255), Auto	Weight	91.8 g
White Balance	Manual, Auto, Once, Off	Vibration, Shock	Complies with IEC60068-2-64 and IEC60068- 2-27
Shutter Speed	1 μs/step, 14 μs to 16.0 s	Environmental	-30 °C to +75 °C Operating;
Exposure Control	Off, Manual, External, Auto		-40 °C to +85 °C Storage
Regions of Interest (ROI)	2 ROI	Humidity	10% to 90% non-condensing
Binning	1x2, 2x1, 2x2	MTBF	TBD
Sub-sampling	1x2, 2x1, 2x2	Military Standard	MIL-STD-810G
Trigger Inputs	External, Pulse generator, Software, Computer	Regulatory	FCC Part 15, CE, RoHS
Trigger Options	Edge, Pulse width, Trigger filter, Trigger delay, Debounce	. J J	
Trigger Modes	Free run, Standard, Fast		
External Inputs/Outputs	2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)		

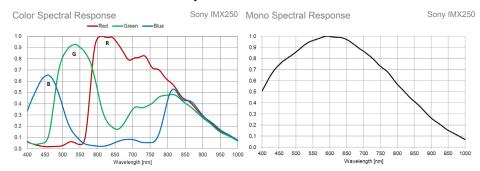


Imperx: C2420 Applications

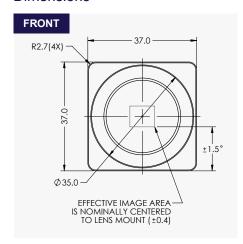
The CLF-C2420 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

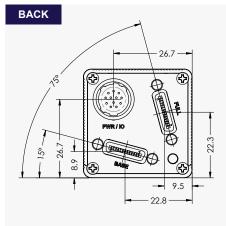
Aerospace ● Satellites ● Surveillance ● Ball Grid Array ● Printed Circuit Board Inspection ● Motion Analysis ● Broadcast Television ● Telepresence ● Unmanned Aerial Vehicles ● Machine Vision ● Intelligent Traffic Systems ● Aerial Imaging ● Open Road Tolling Systems • Situational Awareness

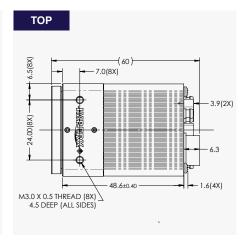
Absolute Quantum Efficiency



Dimensions







Ordering Information





Hirose Connectors



Connector: Hirose HR10A-10R-12PB(71)

Rev: cl_c2420_r2_2019

Quality Management System ISO 9001:2015 Registered Environmental Management System ISO 14001:2015 Registered DDTC Registered (Directorate of Defense Trade Controls, US Department of State)

Software/Drivers/Interface



SAIS Espace BOAT 2 route de Gasville 28630 NOGENT LE PHAYE www.sacasa.info tel: 09 54 16 23 53 - Fax: 09 59 16 23 53 contact@sacasa.info