## CHEETAH RUGGEDIZED CAMERA SERIES

# C4110 CMOS 12 MP GigE Vision<sup>®</sup> with Power over Ethernet (PoE)



#### Imperx: C4110

The POE-C4110 camera features the Sony Pregius IMX304 Global Shutter CMOS sensor with a native resolution of 4112 x 3008 in a 1.1" optical format delivering up to 9.6 frames per second with GigE Vision Power over Ethernet (PoE) 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 image corrections, if desired. The C4110'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

Feature	Description	Feature	Description
Output Interface	GigE Vision <sup>®</sup> with Power over Ethernet (PoE)	Strobe Output	2 strobes, programmable position and duration
Resolution	4112 (H) x 3008 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX304 CMOS Color/Mono	Data Correction	4 LUTs pre-programmed with Gamma 0.45;
Sensor Format	14.2 mm (H) x 10.4 mm (V), 1.1" 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)	P-Iris	Optional
Sensor Digitization	12-bit	P-Iris Control	Auto, Programmable
Frame Rate	9.6 fps (8-bit), 4.8 fps (10-bit/12-bit unpacked), 6.4 fps (10-bit/12-bit packed)	Supply Voltage Range	12 V DC (6 V $-$ 30 V), 1.5 A inrush
		Power Consumption	Typical: 3.48 W
Dynamic Range	71 dB	Camera Current	Typical: 290 mA @ 12 V
Output Bit Depth	8, 10, 12-bit		Yes
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	PoE Capable	
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of	Size - Width/Height/Length	37 mm (W) x 37 mm (H) x 48.6 mm (L)
Distant and Official	0.001x	Weight	113.2 g
Black Level Offset	Manual (0 – 255), Auto	Vibration, Shock	20G (20 – 200 Hz XYZ)/100G
White Balance	Manual, Auto, Once, Off	Environmental	-30 °C to +75 °C Operating (-40 °C to +85 °C tested);
Shutter Speed	1 μs/step, 14 μs to 16 s		-40 °C to +85 °C Storage
Exposure Control	Off, Manual, Auto, External	Humidity	10% to 90% non-condensing
Regions of Interest (ROI)	2 ROI	MTBF	ТВО
Sub-sampling	1x2, 2x1, 2x2	Military Standard	MIL-STD-810G
Trigger Inputs	External, Pulse generator, Software	Regulatory	FCC Part 15 Class A, CE, RoHS
Trigger Options	Edge, Pulse width, Trigger filter, Trigger delay,		
	Debounce		
Trigger Modes	Free run, Standard, Fast		
External Inputs/Outputs	2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)		

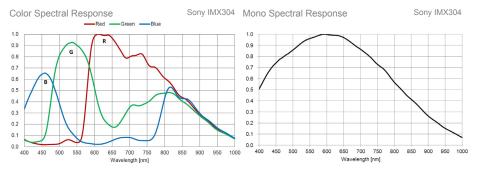


#### Imperx: C4110 Applications

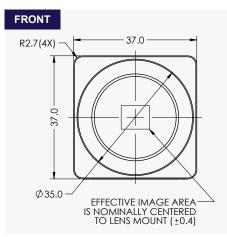
The POE-C4110 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

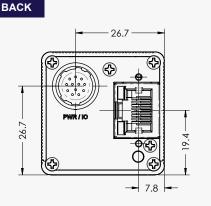
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#### Absolute Quantum Efficiency

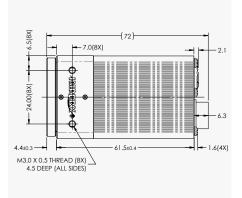


#### Dimensions

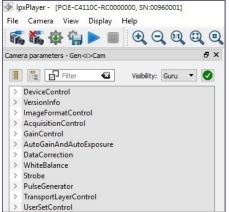




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#### Gen<I>Cam Compliant Camera Configurator



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### Ordering Information

#### Lens Mounts **Output Interface** GigE Vision® with Power over Ethernet (PoE®) C-Mount (Default) P-Iris (Optional) Sensor Types available Accessories (Sold separately) PS12V04A-Power Supply w/ 1 input and 1 output Monochrome Bayer Color **Hirose Connectors** Power and I/O Interface 12 VDC Return OUT1 (TTL) 7 19 IN1 (OPTO) 2. +12 VDC Power 8. 2 IN2 (LVTTL) 3 Reserved 9 31127 4. Reserved 10. IN1 RTN 000 5. OUT2 RTN (OPTO) 11. IN2 RTN 6. OUT1 RTN 12. OUT2 (OPTO) Connector: Hirose HR10A-10R-12PB(71) **PoE**

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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)

