

Front View

Rear View

C3210 CMOS 7.1 MP

GigE Vision® with Power over Ethernet (PoE)

Imperx: C3210

The POE-C3210 camera features the Sony Pregius IMX428 Global Shutter CMOS sensor with a native resolution of 3216 x 2208 in a 1.1" optical format delivering up to 16 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 C3210'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® with Power over Ethernet (PoE)	Strobe Output	2 strobes, programmable position and duration
Resolution	3216 (H) x 2208 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX428 CMOS Color/Mono	Data Corrections	2 LUTs pre-programmed with Gamma 0.45,
Sensor Format	14.5 mm (H) x 9.9 mm (V), 1.1" optical format, 17.6 mm diagonal		2 LUTs pre-programmed with Negative LUT Bad pixel correction (static), Flat field correction
Pixel Size	4.5 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	16 fps (8-bit), 8 fps (10-bit/12-bit unpacked), 10 fps (10-bit/12-bit packed)	Supply Voltage Range	12 VDC (6 V – 30 V), 1.5 A inrush @ 12 V PoE (IEEE 802.3af / IEEE 802.3at)
Dynamic Range	up to 77 dB	Power Consumption	Typical: 4.32 W @ 12 V; PoE: 5.95 W
Output Bit Depth	8, 10, 12-bit	Camera Current	Typical: 360 mA @ 12 V
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	Size - Width/Height/Length	37 mm (W) x 37 mm (H) x 61.6 mm (L)
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of	Weight	125.2 g
	0.001x	Vibration, Shock	20G (20 – 200 Hz XYZ)/100G
Black Level Offset	Manual (0 – 4095), Auto	Environmental	-30 °C to +75 °C Operating (-40 °C to +85 °C
White Balance	Manual, Auto, Once, Off		tested)
Shutter Speed	32 µs to 16.0 s	Harrista.	-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 (Telcordia SR-332)	530,000 hours @ 50 °C (EST)
Binning	1x2, 2x1, 2x2 (Mono cameras only)	Military Standard	MIL-STD-810G
Sub-sampling	1x2, 2x1, 2x2	Regulatory	FCC Part 15 Class A, CE, RoHS, UKCA
Trigger Inputs	External, Pulse generator, Software		
Trigger Options	Edge, Pulse width, Trigger delay, Debounce		
Trigger Modes	Free run, Standard, Fast		
External Inputs/Outputs	2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)		



Imperx: C3210 Applications

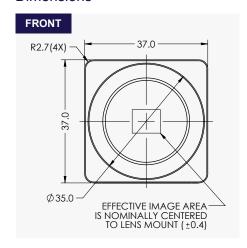
The POE-C3210 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

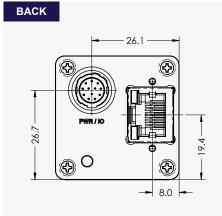
Aerospace ● Satellites ● Surveillance ● Ball Grid Array ● Printed Circuit Board Inspection ● Motion Analysis ● Broadcast Television • Telepresence • Unmanned Aerial Vehicles • Machine Vision • Intelligent Traffic Systems • Aerial Imaging • Open Road Tolling Systems • Situational Awareness

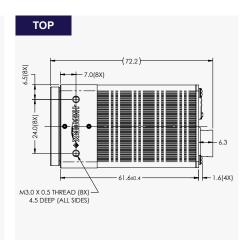
Absolute Quantum Efficiency



Dimensions







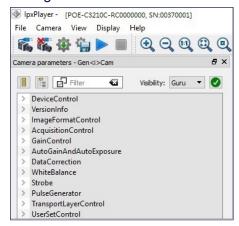
Ordering Information





†PoE

Gen<I>Cam Compliant Camera Configurator





Hirose Connectors



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

Rev: poe_c3210_r7_2022

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)



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