

CHEETAH

RUGGEDIZED CAMERA SERIES

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

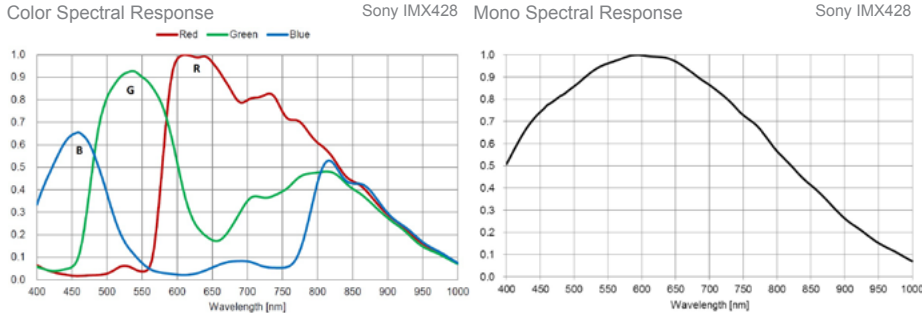
Feature	Description	Feature	Description
Output Interface	GigE Vision® with Power over Ethernet (PoE)	Strobe Output	2 strobes, programmable position and duration
Resolution	3216 (H) x 2208 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX428 CMOS Color/Mono	Data Correction	4 LUTs pre-programmed with Gamma 0.45; Bad pixel correction (static, dynamic)
Sensor Format	14.5 mm (H) x 9.9 mm (V), 1.1" optical format, 17.6 mm diagonal	Lens Mount	C-Mount (default)
Pixel Size	4.5 microns square	P-Iris	Optional
Shutter	Global shutter (GS)	P-Iris Control	Auto, Programmable
Sensor Digitization	12-bit	Supply Voltage Range	12 V DC (6 V – 30 V), 1.5 A inrush
Frame Rate	16 fps (8-bit), 8 fps (10-bit/12-bit unpacked), 10 fps (10-bit/12-bit packed)	Power Consumption	3.8 W (EST)
Dynamic Range	up to 77 dB	Camera Current	Typical: 320 mA/12 V (EST)
Output Bit Depth	8, 10, 12-bit	PoE Capable	Yes
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	Size - Width/Height/Length	37 mm (W) x 37 mm (H) x 61.5 mm (L)
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	Weight	~100 g
Black Level Offset	Manual (0 – 255), Auto	Vibration, Shock	20G/100G
White Balance	Manual, Auto, Once, Off	Environmental	-30 °C to +75 °C
Shutter Speed	5 µs to 16.0 s, 1 µs/step	Humidity	10% to 90% non-condensing
Exposure Control	Off, Manual, Auto, External	MTBF	TBD
Regions of Interest (ROI)	2 ROI	Military Standard	MIL-STD-810G
Sub-sampling	N/A	Regulatory	FCC Part 15 Class A, CE, RoHS
Trigger Inputs	External, Pulse generator, Software		
Trigger Options	Edge, Pulse width, Trigger filter, Trigger delay, Debounce		
Trigger Modes	Free run, Standard, Fast		
External Inputs/Outputs	2 IN (OPTO, LVTTTL) / 2 OUT (OPTO, TTL)		

Imperx: C3210 Applications

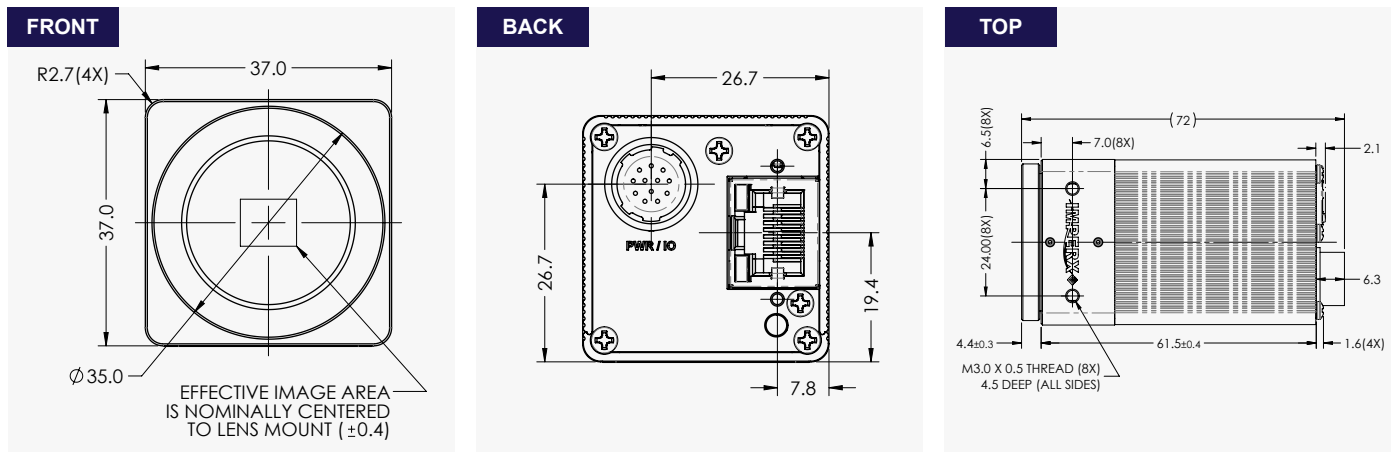
The POE-C3210 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

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



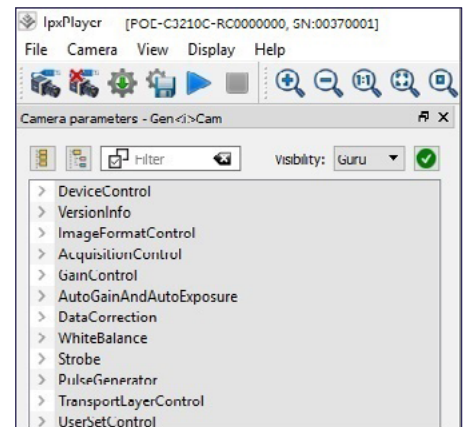
Dimensions



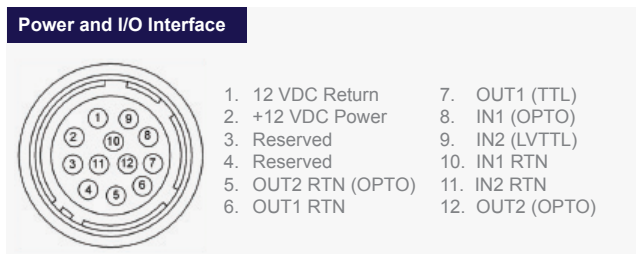
Ordering Information

Output Interface GiGE Vision® with Power over Ethernet (PoE®)	Lens Mounts C-Mount (Default) P-Iris (Optional)
Sensor Types available Monochrome Bayer Color	Accessories (Sold separately) PS12V04A-Power Supply w/ 1 input and 1 output

Gen<I>Cam Compliant Camera Configurator



Hirose Connectors



Rev: poe_c3210_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)



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