C2410
CMOS 5 MP
GigE Vision® with Power over Ethernet (PoE)

Imperx: *C2410*

The POE-C2410 camera features the Sony Pregius IMX264 Global Shutter CMOS sensor with a native resolution of 2464 x 2056 in a 2/3" optical format delivering up to 22 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 C2410'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.
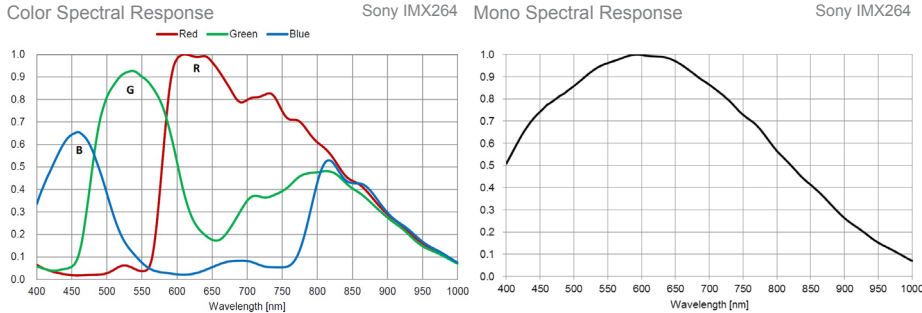
Specifications

Feature	Description	Feature	Description
Output Interface	GigE Vision® with Power over Ethernet (PoE)	Strobe Output	2 strobes, programmable position and duration
Resolution	2464 (H) x 2056 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX264 CMOS Color/Mono	Data Correction	4 LUTs pre-programmed with Gamma 0.45; Bad pixel correction (static, dynamic), Flat field correction
Sensor Format	8.5 mm (H) x 7.1 mm (V), 2/3" optical format		
Pixel Size	3.45 microns square		
Shutter	Global shutter (GS)	Lens Mount	C-Mount (default)
Sensor Digitization	12-bit	P-Iris	Optional
Frame Rate	22 fps (8-bit), 11 fps (10-bit/12-bit unpacked), 15 fps (10-bit/12-bit packed)	P-Iris Control	Auto, Programmable
		Supply Voltage Range	12 V DC (6 V – 30 V), 1.5 A inrush
Dynamic Range	71 dB	Power Consumption	Typical: 3.24 W
Output Bit Depth	8, 10, 12-bit	Camera Current	Typical: 270 mA @ 12 V
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	PoE Capable	Yes
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	Size - Width/Height/Length	37 mm (W) x 37 mm (H) x 61.5 mm (L)
Black Level Offset	Manual (0 – 255), Auto	Weight	113.2 g
White Balance	Manual, Auto, Once, Off	Vibration, Shock	20G (20 – 200 Hz XYZ)/100G
Shutter Speed	1 µs/step, 14 µs to 16.0 s	Environmental	-30 °C to +75 °C Operating (-40 °C to +85 °C tested) -40 °C to +85 °C Storage
Exposure Control	Off, Manual, Auto, External		
Regions of Interest (ROI)	2 ROI	Humidity	10% to 90% non-condensing
Sub-sampling	1x2, 2x1, 2x2	MTBF	TBD
Trigger Inputs	External, Pulse Generator, Software	Military Standard	MIL-STD-810G
Trigger Options	Edge, Pulse width, Trigger filter, Trigger delay, Debounce	Regulatory	FCC Part 15, CE, RoHS
Trigger Modes	Free run, Standard, Fast		
External Inputs/Outputs	2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)		

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Industrial Cameras & Imaging Systems
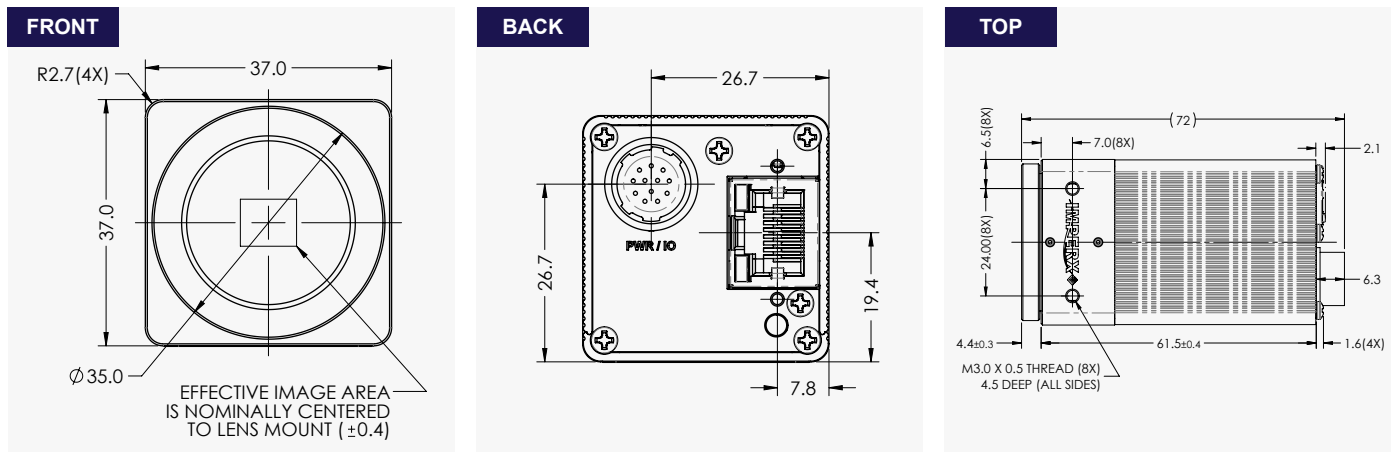
Imperx: *C2410 Applications*

The POE-C2410 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
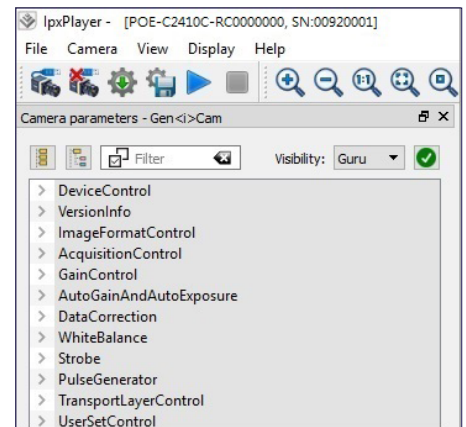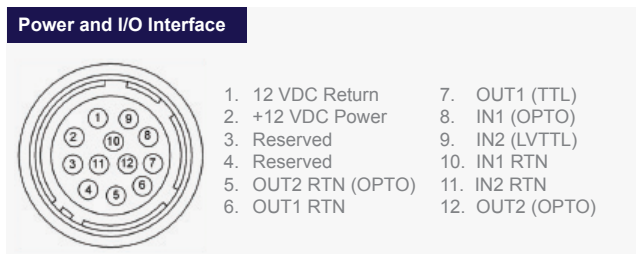
Absolute Quantum Efficiency

Color Spectral Response   Sony IMX264   Mono Spectral Response   Sony IMX264

Dimensions

FRONT   BACK   TOP

Ordering Information

Output Interface
GigE Vision® with Power over Ethernet (PoE®)

Sensor Types available
Monochrome
Bayer Color

Lens Mounts
C-Mount (Default)
P-Iris (Optional)

Accessories (Sold separately)
PS12V04A-Power Supply w/ 1 input and 1 output

Gen<I>Cam Compliant Camera Configurator

Hirose Connectors

Power and I/O Interface

1. 12 VDC Return
2. +12 VDC Power
3. Reserved
4. Reserved
5. OUT2 RTN (OPTO)
6. OUT1 RTN
7. OUT1 (TTL)
8. IN1 (OPTO)
9. IN2 (LVTTL)
10. IN1 RTN
11. IN2 RTN
12. OUT2 (OPTO)

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

Rev: poe_c2410_r3_2019

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