

CHEETAH

RUGGEDIZED CAMERA SERIES

C2400

CMOS 5 MP

GigE Vision® with Power over Ethernet (PoE)



Imperx: C2400

The POE-C2400 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. The C2400 camera's compact size and simplified feature set with universally accepted Gen<I>Cam™ compliant interface makes the C2400 the easiest-to-use and most economical Imperx camera model ever! This camera's flexible architecture, frame rate and image quality make it suitable for a broad range of diverse and demanding applications.

Specifications

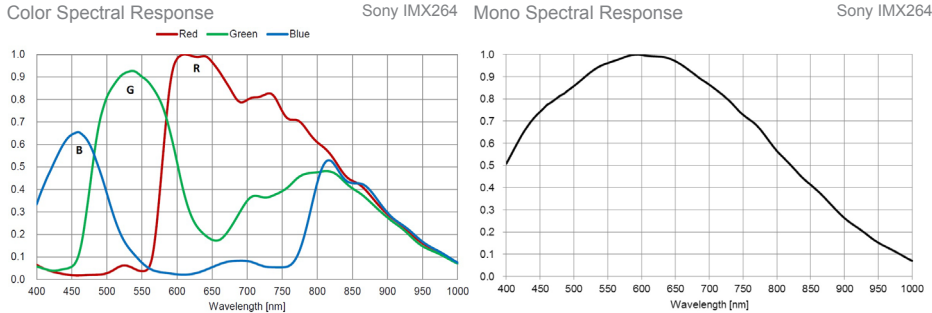
Feature	Description	Feature	Description
Output Interface	GigE Vision® with Power over Ethernet (PoE)	Strobe Output	1 strobe, programmable position and duration
Resolution	2464 (H) x 2056 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX264 CMOS Color/Mono	Data Correction	4 LUTs pre-programmed 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	Lens Mount	C-Mount (default)
Pixel Size	3.45 microns square	Supply Voltage Range	12 V DC (6 V – 30 V), 1.5 A inrush
Shutter	Global shutter (GS)	Power Consumption	Typical: 3.48 W
Sensor Digitization	12-bit	Camera Current	Typical: 290 mA @ 12 V
Frame Rate	22 fps (8-bit), 11 fps (10-bit/12-bit unpacked), 15 fps (10-bit/12-bit packed)	PoE Capable	Yes
Dynamic Range	71 dB	Size - Width/Height/Length	29.0 mm (W) x 29.00 mm (H) x 59.4 mm (L)
Output Bit Depth	8, 10, 12-bit	Weight	77.6 g
Analog/Digital Gain	Manual, 0 dB – 48 dB, 480 steps	Vibration, Shock	30G (20-200) Hz XYZ, 500G
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	Environmental	-30 °C to +70 °C Operating -40 °C to +85 °C Storage
Black Level Offset	Manual (0 – 255), Auto	Humidity	10% to 90% non-condensing
White Balance	Manual, Auto, Once, Off	MTBF	TBD
Shutter Speed	1 µs/step, 14 µs to 16.0 s	Regulatory	FCC Part 15 Class A, CE, RoHS
Exposure Control	Off, Internal, External		
Regions of Interest (ROI)	1 ROI		
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	1 IN (3.3 V to 24 V) / 1 OUT (both opto-isolated)		

Imperx: C2400 Applications

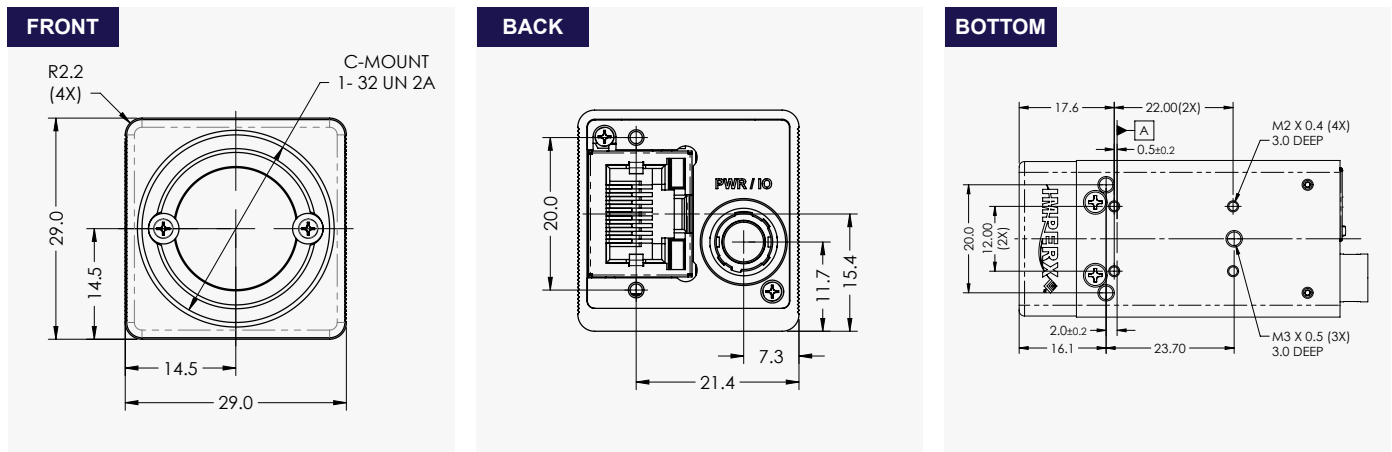
The POE-C2400 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

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

Absolute Quantum Efficiency



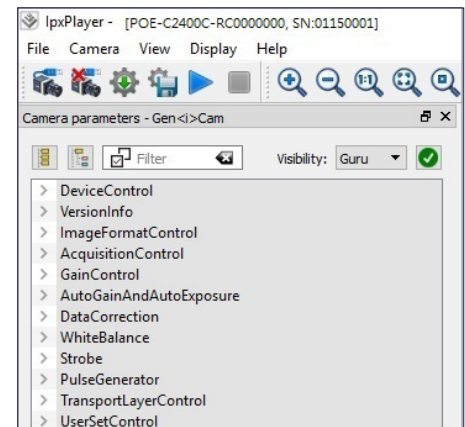
Dimensions



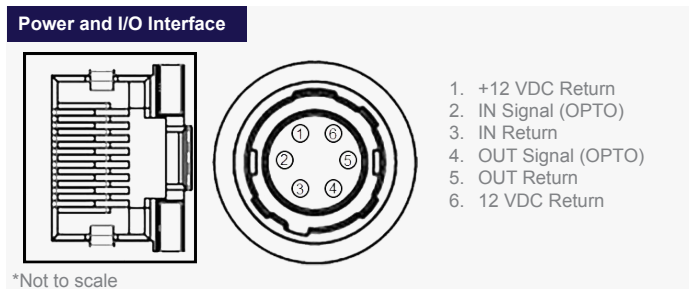
Ordering Information

Output Interface	GigE Vision® w/PoE® (PoE)
Sensor Types available	Monochrome Bayer Color
Lens Mounts	C-Mount (Default)
Accessories (Sold separately)	CBL-COM01 – IO Input/Output, 6-pin (F) Hirose to unterminated cable, 2 m

Gen<I>Cam Compliant Camera Configurator



Hirose Connectors



Rev: poe_c2400_r4_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)



IMPERX 6421 Congress Ave., Boca Raton, FL 33487, USA
Tel: +1-561-989-0006. Email: sales@imperx.com

WWW.IMPERX.COM

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