C2400
CMOS 5 MP
GigE Vision® with Power over Ethernet

Imperx: *C2400*

The PoE-C2400 camera features the Sony Pregius IMX-264 Global Shutter CMOS sensor with a native resolution of 2464 x 2056 in a 2/3" optical format delivering up to 36 frames per second with GigE 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 or remove image corrections. The C2400'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
Interfaces available	GigE Vision®	Strobe Output	2 strobes, programmable position and duration
Resolution	2464 (H) x 2056 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX-264 CMOS Color/Mono	Data Correction	4 LUTS; 1 LUT pre-programmed with Gamma 0.45; Bad pixel correction (static, dynamic)
Sensor Format	8.4 mm (H) x 7.0 mm (V), 2/3" diagonal	Lens Mount	C-Mount (default)
Pixel Size	3.45 microns square	Supply Voltage Range	12VDC (5V – 30V), 1.5 A inrush
Shutter	Global shutter (GS)	Camera Current	Typical: 320 mA at 12V
Digitization	8, 10, 12 bit	PoE Capable	Yes
Frame Rate	36 fps (8-bit), 18 fps (10-bit/12-bit unpacked), 24 fps (10-bit/12-bit packed)	Size - Width/Height/Length	29.0mm (W) x 29.00 (H) x 53.8mm (L)
		Weight	~100g
Dynamic Range	71dB	Vibration, Shock	TBD
Output Bit Depth	8, 10, 12 bit	Environmental	-30° C to +75° C
Analog/Digital Gain	Manual, auto; 0-48 dB, 480 steps	Humidity	10% to 90% non-condensing
White Balance	Manual, Auto, Off	MTBF	TBD
Shutter Speed	1 µs/step, 14 µs to 16.0 sec.		
Exposure Control	Off, internal, external, auto	Regulatory	FCC Part 15 Class A, CE, RoHs
Regions of Interest (ROI)	2 ROI		
Binning	1x2, 2x1, 2x2		
Sub-sampling	1x2, 2x1, 2x2		
Trigger Inputs	External, pulse generator, software, computer		
Trigger Options	Edge, debounce		
Trigger Modes	Free run, Standard, Fast		
External Inputs/Outputs	1 IN (3.3V to 24V)/ 1 OUT (OPTO)		

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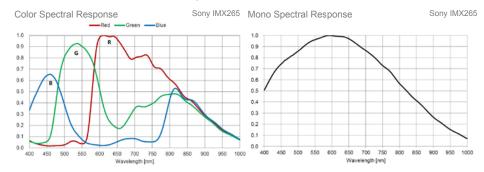Industrial Cameras & Imaging Systems
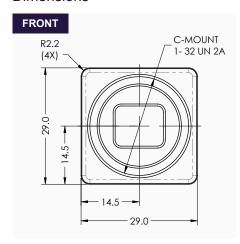
Imperx: *C2400 Applications*

The PoE-C2400 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.
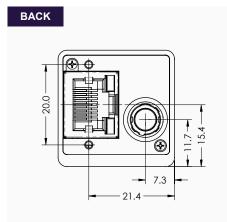
Aerospace ● Satellites ● Surveillance ● Ball Grid Array ● Printed Circuit Board Inspection ● Motion Analysis ● Broadcast Television ● Telepresence ● Unmanned Aerial Vehicles ● Machine Vision ● Intelligent Traffic Systems ● Aerial Imaging ● Open Road Tolling Systems ● Situational Awareness
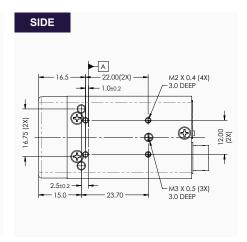
Absolute Quantum Efficiency

Color Spectral Response   Sony IMX265   Mono Spectral Response   Sony IMX265

Dimensions

FRONT

BACK

SIDE

Ordering Information

Interface Available
GigE Vision®

Sensor Types available
Monochrome

Lens Mounts
C-Mount (Default)

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

Software/Drivers/Interface

Hirose Connectors

Power and I/O Interface

1. +12 VDC Return
2. IN1
3. IN1 RTN
4. OUT1 (OPTO)
5. OUT2 RTN
6. 12 VDC Return

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