# CHEETAH

**C6410** CMOS 31 MP

GigE Vision® with Power over Ethernet (PoE)



**RUGGEDIZED CAMERA SERIES** 

# **PRELIMINARY**

Imperx: C6410

The POE-C6410 camera features the Sony Pregius IMX342 Global Shutter CMOS sensor with a native resolution of 6464 x 4852 in an APS-C optical format delivering up to 3.7 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 C6410'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	6464 (H) x 4852 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX342 CMOS Color/Mono	Data Correction	4 LUTs pre-programmed with Gamma 0.45;
Sensor Format	22.3 mm (H) x 16.6 mm (V), 27.9 mm diagonal, APS-C optical format	Lens Mount	Bad pixel correction (static, dynamic) F-Mount (Default)
Pixel Size	3.45 microns square	Canon EF Mount	Optional, Active or Passive
Shutter	Global shutter (GS)	Supply Voltage Range	12 VDC (5 V - 30 V), 1.5 A inrush
Sensor Digitization	12-bit	Power Consumption	3.8 W (EST)
Frame Rate	3.7 fps (8-bit), 1.8 fps (10-bit/12-bit unpacked), 2.5 fps (10-bit/12-bit packed)	PoE Capable Size - Width/Height/Length	Yes 60 mm (W) x 60 mm (H) x 59.5 mm (L)
Dynamic Range	71 dB	Weight	TBD
Output Bit Depth	8, 10, 12-bit	Vibration, Shock	20G/100G
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	Environmental	-30 °C to +75 °C Operating;
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	Humidity	-40 °C to +85 °C Storage  10% to 90% non-condensing
Black Level Offset	Manual (0 – 255), Auto	MTBF	TBD
White Balance	Manual, Auto, Off	Military Standard	MIL-STD-810G
Shutter Speed	1 μs/step, 30 μs to 16.0 s	Regulatory	FCC Part 15 Class A, CE, China RoHS
Exposure Control	Off, Manual, External, Auto	Regulatory	1 CC Fait 13 Class A, CL, Clilla NOTS
Regions of Interest (ROI)	2 ROI		
Binning	1x2, 2x1, 2x2		
Sub-sampling	1x2, 2x1, 2x2		
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, LVTTL) / 2 OUT (OPTO, TTL)		

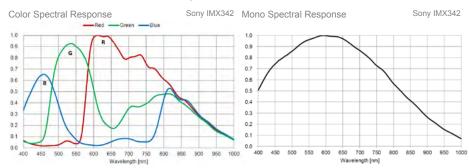


### Imperx: C6410 Applications

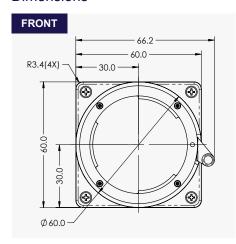
The POE-C6410 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

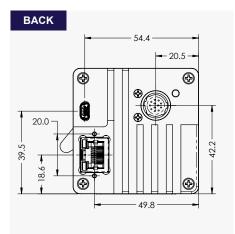
Aerospace • Satellites • Surveillance • Ball Grid Array • Printed Circuit Board Inspection • Motion Analysis • Broadcast Television • Telepresence • Unmanned Aerial Vehicles • Machine Vision • Intelligent Traffic Systems • Aerial Imaging • Open Road Tolling Systems • Situational Awareness

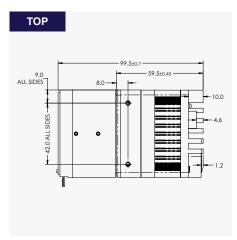
### Absolute Quantum Efficiency



### **Dimensions**







### Ordering Information





## **Hirose Connectors**



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

Rev: poe\_c6410\_r4\_2019







Gen<I>Cam Compliant Camera

∮ IpxPlayer [POE-C6410C-RF0000000, 5N:01160001]

File Camera View Display Help

Configurator

GainControl
 AutoGainAndAutoExposure

DataCorrection
 WhiteBalance
 Strobe

> PulseGenerator

UserSetControl

TransportLayerControl

INDUSTRIAL CAMERAS & Imaging Systems

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