

**Front View** 

**Rear View** 

# **C5410** CMOS 17 MP

GigE Vision® with Power over Ethernet (PoE)

### Imperx: C5410

The POE-C5410 camera features the Sony Pregius IMX387 Global Shutter CMOS sensor with a native resolution of 5472 x 3084 in a 4/3" optical format delivering up to 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 C5410'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	5472 (H) x 3084 (V)	Pulse Generator	Yes, programmable
Sensor Sensor Format	Sony Pregius IMX387 CMOS Color/Mono 18.9 mm (H) x 10.6 mm (V), 4/3" optical format	Data Corrections	2 LUTs pre-programmed with Gamma 0.45, 2 LUTs pre-programmed with Negative LUT Bad pixel correction (static), Flat field correction
Pixel Size Shutter	3.45 microns square Global shutter (GS)	Lens Mount Canon EF Mount	F-Mount (default) Optional, Active or Passive
Sensor Digitization Frame Rate	12-bit 7 fps (8-bit), 3.5 fps (10-bit/12-bit unpacked), 4.6 fps (10-bit/12-bit packed)	Supply Voltage Range	12 VDC (6 V – 30 V), 1.5 A inrush @ 12 V PoE (IEEE 802.3af / IEEE 802.3at)
Dynamic Range Output Bit Depth	71 dB 8, 10, 12-bit	Power Consumption	Typical: 5.4 W @ 12 V; PoE: 6.5 W – without enabled Canon controller, Max: 7.8 W; PoE (Max): 7 W – with enabled Canon controller
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	Camera Current	Typical: 450 mA @ 12 V
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	Size - Width/Height/Length	60 mm (W) x 60 mm (H) x 56.5 mm (L)
Black Level Offset White Balance Shutter Speed	Manual (0 – 4095), Auto Manual, Auto, Off 76 µs to 16.0 s	Weight Vibration, Shock Environmental	475.7 g 20G/100G -30 °C to +75 °C Operating -40 °C to +85 °C Storage (-40 °C to +85 °C tested)
Exposure Control Regions of Interest (ROI)	Off, Manual, External, Auto 2 ROI	Humidity MTBF	10% to 90% non-condensing TBD
Binning	1x2, 2x1, 2x2 (Mono cameras only)	Military Standard	MIL-STD-810G
Sub-sampling	1x2, 2x1, 2x2	Regulatory	FCC Part 15 Class A, CE, RoHS, UKCA
Trigger Inputs	External, Pulse generator, Software, Computer		
Trigger Options	Edge, Pulse width, Trigger delay, Debounce		
Trigger Modes External Inputs/Outputs	Free run, Standard, Fast 2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)		



# Imperx: C5410 Applications

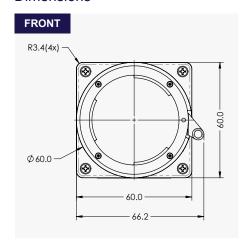
The POE-C5410 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

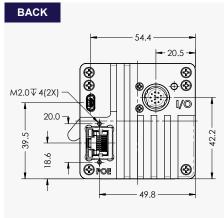
Aerospace • Satellites • Surveillance • Ball Grid Array • Printed Circuit Board Inspection • Motion Analysis • Broadcast Television • Telepresence • Unmanned Aerial Vehicles • Machine Vision • Intelligent Traffic Systems • Aerial Imaging • Open Road Tolling Systems • Situational Awareness

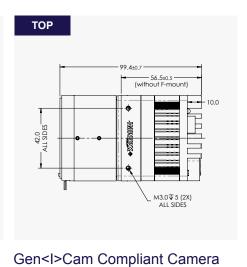
# Absolute Quantum Efficiency



#### **Dimensions**







#### Ordering Information





#### **Hirose Connectors**



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

Rev: poe\_c5410\_r7\_2021







IpxPlayer - [POE-C5410C-RF0000000, SN:01210001]

File Camera View Display Help

Configurator

66 4 4

WhiteBalanceStrobe

PulseGenerator

UserSetControl

TransportLayerControl

Industrial Cameras & Imaging Systems

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