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CHEETAH

RUGGEDIZED CAMERA SERIES

Front View | Rear View

C6410
CMOS 31 MP
GigE Vision® with Power over Ethernet (PoE)

Imperx: *C6410*

The POE-C6410 camera features the Sony Pregius IMX342 Global Shutter CMOS sensor with a native resolution of 6480 x 4860 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
Output Interface	GigE Vision® with Power over Ethernet (PoE)
Resolution	6480 (H) x 4860 (V)
Sensor	Sony Pregius IMX342 CMOS Color/Mono
Sensor Format	22.3 mm (H) x 16.6 mm (V), 27.9 mm diagonal, APS-C optical format
Pixel Size	3.45 microns square
Shutter	Global shutter (GS)
Sensor Digitization	12-bit
Frame Rate	3.7 fps (8-bit), 1.8 fps (10-bit/12-bit unpacked), 2.5 fps (10-bit/12-bit packed)
Dynamic Range	71 dB
Output Bit Depth	8, 10, 12-bit
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x
Black Level Offset	Manual (0 – 4095), Auto
White Balance	Manual, Auto, Off
Shutter Speed	85 µs to 16.0 s
Exposure Control	Off, Manual, External, Auto
Regions of Interest (ROI)	2 ROI
Binning	1x2, 2x1, 2x2 (Mono cameras only)
Sub-sampling	1x2, 2x1, 2x2
Trigger Inputs	External, Pulse generator, Software
Trigger Options	Edge, Pulse width, Trigger delay, Debounce
Trigger Modes	Free run, Standard, Fast
External Inputs/Outputs	2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)

Feature	Description
Strobe Output	2 strobes, programmable position and duration
Pulse Generator	Yes, programmable
Data Corrections	2 LUTs pre-programmed with Gamma 0.45, 2 LUTs pre-programmed with Negative LUT Bad pixel correction (static), Flat field correction
Lens Mount	F-Mount (Default)
Canon EF Mount	Optional, Active or Passive
Supply Voltage Range	12 VDC (6 V – 30 V), 1.5 A inrush @ 12 V PoE (IEEE 802.3af / IEEE 802.3at)
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
Camera Current	Typical: 450 mA @ 12 V
Size - Width/Height/Length	60 mm (W) x 60 mm (H) x 56.5 mm (L)
Weight	475.7 g
Vibration, Shock	20G/100G
Environmental	-30 °C to +75 °C Operating (-40 °C to +85 °C tested) -40 °C to +85 °C Storage
Humidity	10% to 90% non-condensing
MTBF	TBD
Military Standard	MIL-STD-810G
Regulatory	FCC Part 15 Class A, CE, RoHS, UKCA

IMPERX™
Industrial Cameras & Imaging Systems

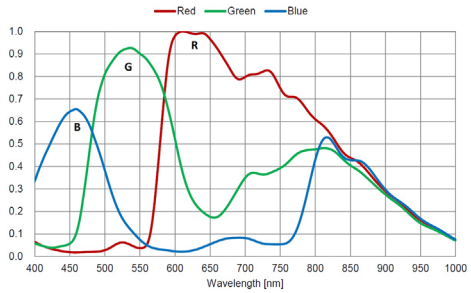
Imperx: *C6410 Applications*

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

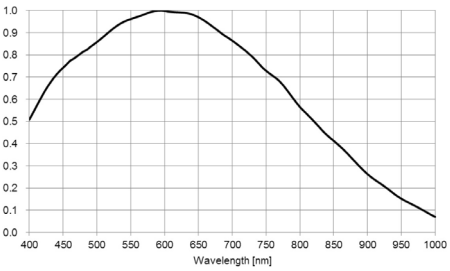
Aerospace ● Satellites ● Surveillance ● Ball Grid Array ● Printed Circuit Board Inspection ● Motion Analysis ● Broadcast Television ● Telepresence ● Unmanned Aerial Vehicles ● Machine Vision ● Intelligent Traffic Systems ● Aerial Imaging ● Open Road Tolling Systems ● Situational Awareness

Absolute Quantum Efficiency

Color Spectral Response — Sony IMX342

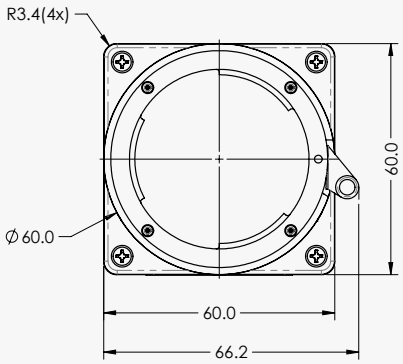


Mono Spectral Response — Sony IMX342

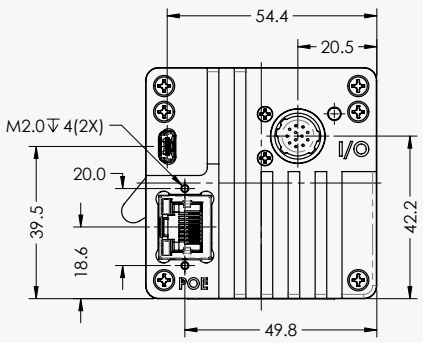


Dimensions

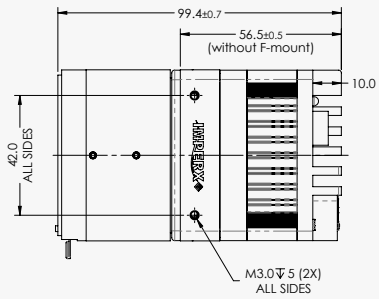
FRONT



BACK



TOP



Ordering Information

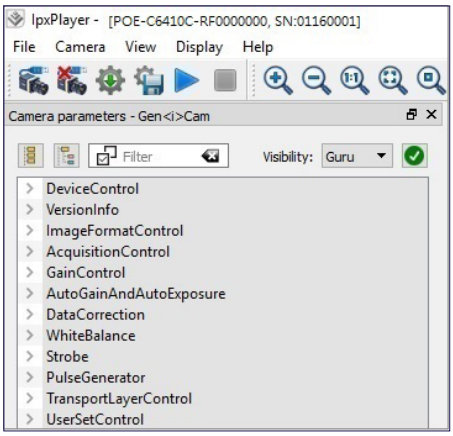
Output Interface
GigE Vision® with Power over Ethernet (PoE®)

Sensor Types available
Monochrome
Bayer Color

Lens Mounts
F-Mount (Default)
M42 (Optional)
Canon EF Mount (Optional)

Accessories (Sold separately)
PS12V14A-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	7. OUT1 (TTL)
2. +12 VDC Power	8. IN1 (OPTO)
3. Reserved	9. IN2 (LVTTL)
4. Reserved	10. IN1 RTN
5. OUT2 RTN (OPTO)	11. IN2 RTN
6. OUT1 RTN	12. OUT2 (OPTO)

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

Rev: poe_c6410_r7_2021

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)

GiGE VISION® PoE Power over Ethernet

IMPERX Industrial Cameras & Imaging Systems

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