

# CHEETAH

## RUGGEDIZED CAMERA SERIES

Front View

Rear View

# P67-C2010 CMOS 3 MP

*GigE Vision® with Power over Ethernet (PoE)*

### Imperx: C2010

The P67-C2010 provides the same robust camera design as the POE-C2010 with an IP67 enclosure. The P67-C2010 camera features the Sony Pregius IMX265 Global Shutter CMOS sensor with a native resolution of 2064 x 1544 in a 1/1.8" optical format delivering up to 36 frames per second with GigE Vision®, Power over Ethernet (PoE)® output. Imperx puts you in control by providing the user the ability to set the camera up very easily. Using the simple Gen<I>Cam™ compliant user interface, you can quickly apply image corrections to enhance recognition or quality. The C2010's flexibility, outstanding sensitivity, image quality, and speed make it suitable for a broad range of diverse and demanding applications. By combining the powerful Imperx camera control with an IP67 rated enclosure protecting the camera from dust, water and other contaminants, the P67-C2010 can be utilized in harsh environments.

### Specifications

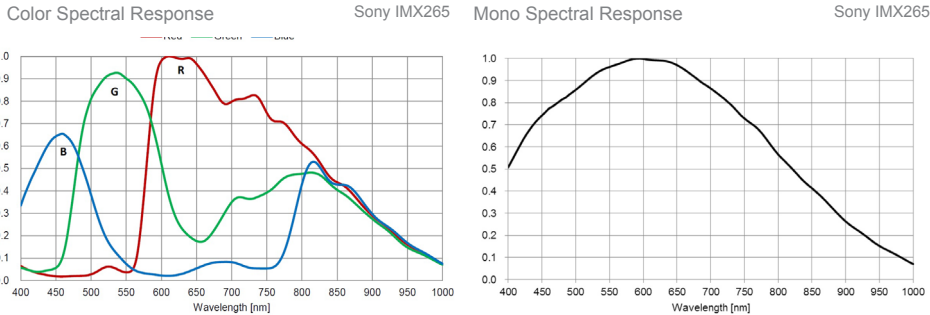
Feature	Description	Feature	Description
Output Interface	GigE Vision® with Power over Ethernet (PoE)	Data Correction	2 LUTs pre-programmed with Gamma 0.45, 2 LUTs pre-programmed with Negative LUT Bad pixel correction (static) 2 Flat Field Correction tables
Resolution	2064 (H) x 1544 (V)	Lens Mount	C-Mount
Sensor	Sony Pregius IMX265 CMOS Color/Mono	Supply Voltage Range	12 V DC (6 V-30 V), 1.5 A inrush @ 12 V PoE (IEEE 802.3af / IEEE 802.3at)
Sensor Format	7.0 mm (H) x 5.3 mm (V), 1/1.8" optical format, 8.9 mm diagonal	Power Consumption	Typical: 3 W @ 12 V; PoE: 4.64 W
Pixel Size	3.45 microns square	Camera Current	Typical: 250 mA @ 12 V
Shutter	Global shutter (GS)	Size - Width/Height/Length	48.5 mm (W) x 42.0 mm (H) x 61 mm (L) (without lens tube and connectors)
Sensor Digitization	12-bit	Lens Tube Dimensions	44 mm Lens tube: -Inner diameter 44 mm -Outer diameter 50 mm -Length varies (see IP67 lens tubes spec sheet) 64 mm Lens tube: -Inner diameter 64 mm -Outer diameter 70 mm -Length varies (see IP67 lens tubes spec sheet)
Frame Rate	36 fps (8-bit), 18 fps (10-bit/12-bit unpacked), 24 fps (10-bit/12-bit packed)	Weight	196 g (without a lens tube)
Dynamic Range	71 dB	Vibration, Shock	20G (20 – 200 Hz XYZ) / 100G
Output Bit Depth	8, 10, 12-bit	Environmental	-30 °C to +75 °C Operating (-40 °C to +85 °C tested), -40 °C to +85 °C Storage
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	Humidity	10% to 90% non-condensing – for exposure longer than 30 minutes 100% non-condensing – for exposure up to 30 minutes
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	MTBF	550,000 hours @ 50 °C (EST) (Telcordia SR-332)
Black Level Offset	Manual (0 – 4095), Auto	Military Standard	MIL-STD-810G
White Balance	Manual, Auto, Once, Off	Regulatory	FCC Part 15 Class A, CE, RoHS, UKCA
Shutter Speed	31 µs to 16 s		
Exposure Control	Off, Manual, Auto, External		
Regions of Interest (ROI)	2 ROI		
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	1 IN (OPTO) / 2 OUT (OPTO, TTL)		
Strobe Output	2 strobes, programmable position and duration		
Pulse Generator	Yes, programmable		

## Imperx: C2010 Applications

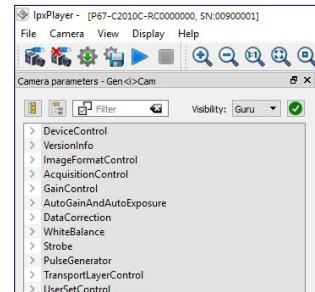
The P67-C2010 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

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

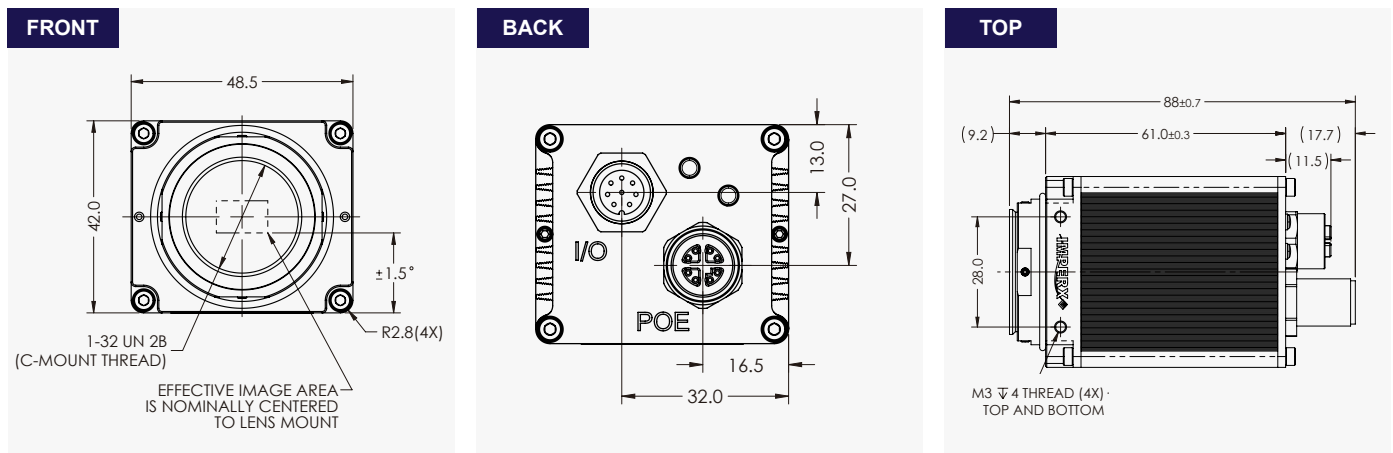
## Absolute Quantum Efficiency



## Gen<I>Cam Compliant Camera Configurator



## Dimensions



## Ordering Information

Please specify the camera model code and select an IP67 lens tube (see IP67 lens tubes spec sheet).

Output Interface	Accessories (Sold separately)
<p>GiGE Vision® with Power over Ethernet (PoE)® in IP67 enclosure (P67)</p>	<p>CBL-IO08-0001 – Cable, 8 pin I/O, BULGIN CONN to Pigtail, 2 m</p>
<p><b>Sensor Types available</b></p> <p>Monochrome</p> <p>Bayer Color</p>	<p>CBL-XRJ45-0002 – Cable, RJ45 to 8 position M12/Xcode (IP67 METZ CONN), 2 m</p>
<p><b>Lens Mounts</b></p> <p>C-Mount</p>	<p>CBL-XRJ45-0003 – Cable, RJ45 to 8 position M12/Xcode (IP67 METZ CONN), 3 m</p>
	<p>CBL-XRJ45-0005 – Cable, RJ45 to 8 position M12/Xcode (IP67 METZ CONN), 5 m</p>
	<p>CBL-XRJ45-0010 – Cable, RJ45 to 8 position M12/Xcode (IP67 METZ CONN), 10 m</p>
	<p>CBL-XRJ45-0015 – Cable, RJ45 to 8 position M12/Xcode (IP67 METZ CONN), 15 m</p>
	<p>CBL-XRJ45-0020 – Cable, RJ45 to 8 position M12/Xcode (IP67 METZ CONN), 20 m</p>

## Connectors

Power and I/O Interface	1000BASE-T Ethernet Interface
<ol style="list-style-type: none"> <li>Reserved</li> <li>+12 VDC</li> <li>IN1 (OPTO)</li> <li>IN1/OUT1 RETURN</li> <li>OUT2 RETURN</li> <li>OUT1 (OPTO)</li> <li>+12 VDC RETURN</li> <li>OUT2 (TTL)</li> </ol>	<p><b>Cable Wires:</b></p> <ol style="list-style-type: none"> <li>TD0+ White/Orange</li> <li>TD0- Orange</li> <li>TD1+ White/Green</li> <li>TD1- Green</li> <li>TD3+ White/Brown</li> <li>TD3- Brown</li> <li>TD2- White/Blue</li> <li>TD2+ Blue</li> </ol>

Connector: BULGIN PXMBN12RPM08APCM12

Connector: MACOM MMT361A315



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

Rev: p67\_c2010\_r10\_2022

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)

WWW.IMPERX.COM

Technical data has been fully checked, but accuracy of printed matter is not guaranteed. Subject to change without notice. Copyright 2022.