

CHEETAH

RUGGEDIZED CAMERA SERIES

Front View

Rear View

P67-C1911

CMOS 2.86 MP

GigE Vision® with Power over Ethernet (PoE)

Imperx: C1911

The P67-C1911 provides the same robust camera design as the POE-C1911 with an IP67 enclosure. The P67-C1911 camera features the Sony Pregius IMX429 Global Shutter CMOS sensor with a native resolution of 1944 x 1472 in a 2/3" optical format delivering up to 40 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 C1911'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-C1911 can be utilized in harsh environments.

Specifications

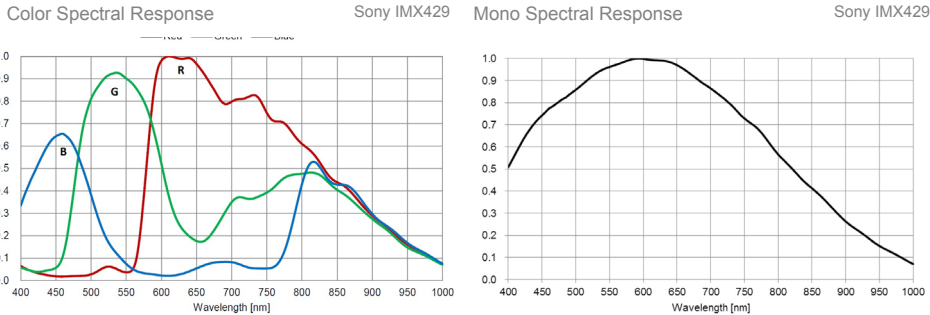
Feature	Description	Feature	Description
Output Interface	GigE Vision® with Power over Ethernet (PoE)	Data Correction	2 LUTs pre-programmed with Gamma 0.45, 2 LUTs pre-programmed with Negative LUT Bad pixel correction (static) 2 Flat Field Correction tables
Resolution	1944 (H) x 1472 (V)	Lens Mount	C-Mount
Sensor	Sony Pregius IMX429 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	8.7 mm (H) x 6.6 mm (V), 2/3" optical format, 11.0 mm diagonal	Power Consumption	Typical: 3.84 W @ 12 V; PoE: 5 W
Pixel Size	4.5 microns square	Camera Current	Typical: 320 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	40 fps (8-bit), 20 fps (10-bit/12-bit unpacked), 26 fps (10-bit/12-bit packed)	Weight	196 g (without a lens tube)
Dynamic Range	77 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	21 µs to 16 s		
Exposure Control	Off, Manual, Auto, External		
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	1 IN (OPTO) / 2 OUT (OPTO, TTL)		
Strobe Output	2 strobes, programmable position and duration		
Pulse Generator	Yes, programmable		

Imperx: C1911 Applications

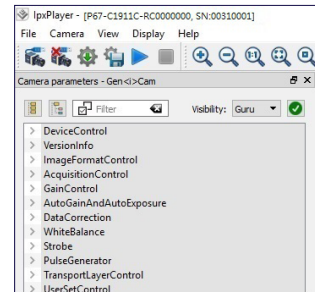
The P67-C1911 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

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

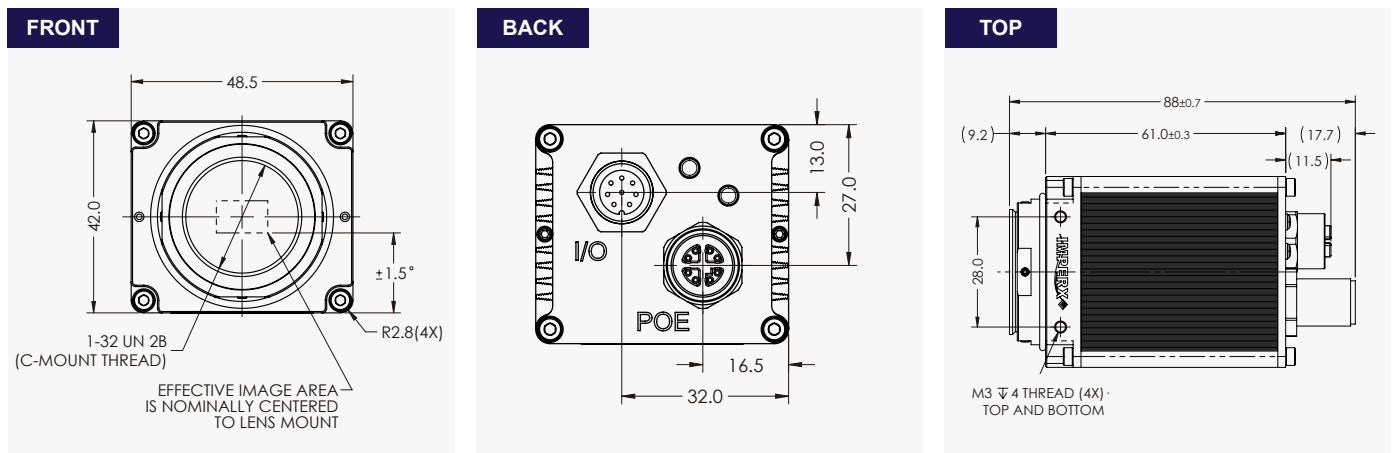
Absolute Quantum Efficiency



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>CBL-XRJ45-0002 – Cable, RJ45 to 8 position M12/Xcode (IP67 METZ CONN), 2 m</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>
Sensor Types available	
<p>Monochrome</p> <p>Bayer Color</p>	
Lens Mounts	
<p>C-Mount</p>	

Connectors

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

Connector: BULGIN PXMBN112RPM08APCM12

Connector: MACOM MMT361A315



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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)

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