CHEETAH RUGGEDIZED CAMERA SERIES

C2000 CMOS 3.1 MP GigE Vision[®] with Power over Ethernet (PoE)



Imperx: C2000

The POE-C2000 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 output. The Sony Pregius image sensor delivers outstanding sensitivity and excellent image quality. The C2000 camera's compact size and simplified feature set with universally accepted Gen<I>Cam[™] compliant interface makes the C2000 the easiest-to-use and most economical Imperx camera model ever! This camera's flexible architecture, frame rate and image quality make it suitable for a broad range of diverse and demanding applications.

Specifications

Feature	Description	Feature	Description
Output Interface	GigE Vision® with Power over Ethernet (PoE)	Strobe Output	1 strobe, programmable position and duration
Resolution	2064 (H) x 1544 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX265 CMOS Color/Mono	Data Correction	4 LUTs pre-programmed with Gamma 0.45;
Sensor Format	7.1 mm (H) x 5.3 mm (V), 1/1.8" optical format		Bad pixel correction (static, dynamic)
Pixel Size	3.45 microns square	Lens Mount	C-Mount (default)
Shutter	Global shutter (GS)	Supply Voltage Range	12 V DC (6 V – 30 V), 1.5 A inrush
Sensor Digitization	12-bit	Power Consumption	Typical: 3.72 W
Frame Rate	36 fps (8-bit), 18 fps (10-bit/12-bit unpacked),	Camera Current	Typical: 310 mA @ 12 V
	24 fps (10-bit/12-bit packed)	PoE Capable	Yes
Dynamic Range	71 dB	Size - Width/Height/Length	29.0 mm (W) x 29.00 mm (H) x 59.4 mm (L)
Output Bit Depth	8, 10, 12-bit	Weight	77.6 g
Analog/Digital Gain	Manual, 0 dB – 48 dB, 480 steps	Vibration, Shock	30G (20-200) Hz XYZ, 500G
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	Environmental	-30 °C to +70 °C Operating -40 °C to +85 °C Storage
Black Level Offset	Manual (0 – 255), Auto	Humidity	10% to 90% non-condensing
White Balance	Manual, Auto, Once, Off	MTBF	ТВД
Shutter Speed	1 μs/step, 14 μs to 16.0 s	Regulatory	FCC Part 15 Class A, CE, RoHS
Exposure Control	Off, Manual, External		
Regions of Interest (ROI)	1 ROI		
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	1 IN (3.3 V to 24 V) / 1 OUT (both opto-isolated)		



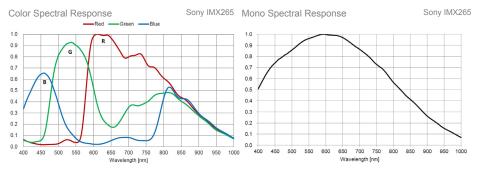
Imperx: C2000 Applications

The POE-C2000 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

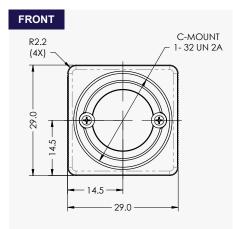
Aerospace • Satellites • Surveillance • Ball Grid Array • Printed Circuit Board Inspection • Motion Analysis • Broadcast Television

- Telepresence Unmanned Aerial Vehicles Reticle Alignment Machine Vision Industrial Imaging Intelligent Traffic Systems
- Aerial Imaging
 Open Road Tolling Systems
 Situational Awareness

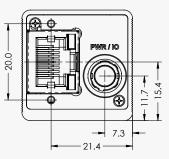
Absolute Quantum Efficiency



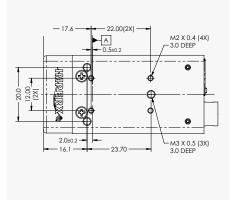
Dimensions







воттом

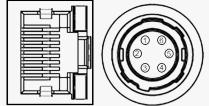


Gen<I>Cam Compliant Camera

Ordering Information

Configurator **Output Interface** Lens Mounts IpxPlayer - [POE-C2000C-RC0000000, SN:00910000] GigE Vision® w/PoE® (PoE C-Mount (Default) File Camera View Display Help Sensor Types available Accessories (Sold separately) r 🖌 🕀 🖕 🕽 Monochrome CBL-COM01 - IO Input/Output, 6-pin (F) Hirose ₽ X Camera parameters - Gen <i>Can to unterminated cable, 2 m Bayer Color 🔋 📔 🗗 Filter • Visibility: Guru 🔻 🕑 DeviceControl **Hirose Connectors** VersionInfo ImageFormatControl AcquisitionControl Power and I/O Interface GainControl > AutoGainAndAutoExposure

PoE



*Not to scale

Connector: Hirose HR10A-7R-6PB(73)

Rev: poe_c2000_r4_2019

+12 VDC Return IN Signal (OPTO)

- 3. IN Return
 - OUT Signal (OPTO)

GiG=

4. 5. OUT Return

2.

6. 12 VDC Return

Industrial Cameras & Imaging Systems

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

WWW IMPERX COM

Technical data has been fully checked, but accuracy of printed matter is not guaranteed. Subject to change without notice. Copyright 2019.

DataCorrection

WhiteBalance

> PulseGenerator

UserSetControl

TransportLayerControl

Strobe

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)