CHEETAH

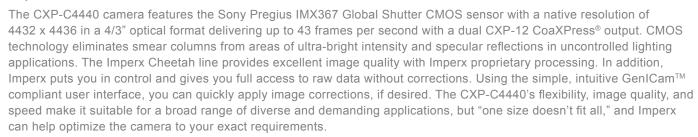
RUGGEDIZED CAMERA SERIES

CXP-C4440 CMOS 20 MP

Dual CXP-12



Imperx: C4440



Specifications

Feature	Description	Fe
Output Interface	2-channel CXP-12 CoaXPress® w/PoCXP®	St
Resolution	4432 (H) x 4436 (V)	Pι
Sensor	Sony Pregius IMX367 CMOS Color/Mono	Da
Sensor Format	15.2 mm (H) x 15.3 mm (V), 4/3" optical format	
Pixel Size	3.45 microns square	
Shutter	Global shutter (GS)	Le
Sensor Digitization	8, 10, 12-bit	Ca
Frame Rate	43 fps (8-bit), 39.6 fps (10-bit), 28.3 fps (12-bit)	Po
Dynamic Range	71 dB	Po
Output Bit Depth	8, 10, 12-bit	Si
Analog/Digital Gain	Manual, Auto; 0 dB – 48 dB, 480 steps	W
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	Vi
AEC/AGC	Yes	Er
Black Level Offset	Manual (0 – 255), Auto	
White Balance	Manual, Auto, Once, Off	Hu
Shutter Speed	1 μs/step, 30 μs to 16.0 s	M
Exposure Control	Off, Internal, External, Auto	M
Regions of Interest (ROI)	2 ROI	Re
Binning	1 x 2, 2 x 1, 2 x 2	
Sub-sampling	1 x 2, 2 x 1, 2 x 2	
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 2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)

Feature	Description
Strobe Output	2 strobes, programmable position and duration
Pulse Generator	Yes, programmable
Data Correction	4 LUTs pre-programmed with Gamma 0.45; Bad pixel correction (static, dynamic), Flat field correction
Lens Mount	F-Mount (default)
Canon EF-Mount	Optional, Active or Passive
Power	Power over CoaXPress or 24 V external power supply (Optional)
Power Consumption	Typical: TBD, Maximum: TBD
Size - Width/Height/Length	60 mm (W) x 60 mm (H) x 59.5 mm (L) (EST)
Weight	TBD
Vibration, Shock	20G (20 – 200 Hz XYZ) /100G
Environmental	-30 °C to +75 °C Operating,
	-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

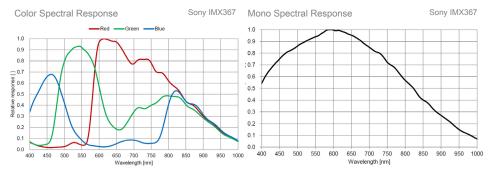


Imperx: C4440 Applications

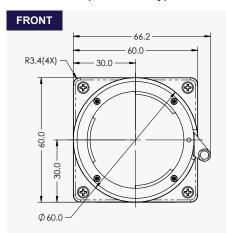
The CXP-C4440 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

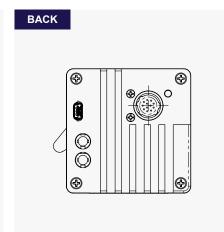
Aerospace • Satellites • Surveillance • Ball Grid Array • Printed Circuit Board Inspection • Motion Analysis • Broadcast Television • Telepresence • Unmanned Aerial Vehicles • Machine Vision • Intelligent Traffic Systems • Aerial Imaging • Open Road Tolling Systems • Situational Awareness

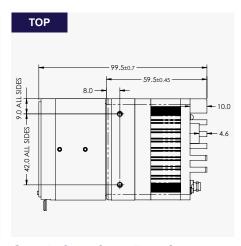
Absolute Quantum Efficiency



Dimensions (Preliminary)





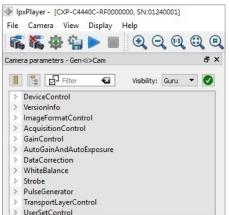


Ordering Information

Output Interface 2-channel CXP-12 CoaXPress® w/PoCXP® (CXP) Sensor Types available Monochrome



Gen<I>Cam Compliant Camera Configurator



Hirose Connectors

Bayer Color



Connector: Hirose HR 10A-10R-12PB(71)

Rev: cxp_c4440_r1_2019

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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