CHEETAH RUGGEDIZED CAMERA SERIES

Front View Rear View

CXP-C4440 CMOS 20 MP Dual CXP-6

Imperx: C4440

The CXP-C4440 camera features the Sony Pregius IMX367 Global Shutter CMOS sensor with a native resolution of 4416 x 4436 in a 4/3" optical format delivering up to 39.6 frames per second with a dual CXP-6 CoaXPress output. CMOS technology eliminates smear columns from areas of ultra-bright intensity and specular reflections in uncontrolled lighting applications. The Imperx Cheetah line provides excellent image quality with Imperx proprietary processing. In addition, Imperx puts you in control and gives you full access to raw data without corrections. Using the simple, intuitive GenICam[™] compliant user interface, you can quickly apply image corrections, if desired. The CXP-C4440'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	Feature	Description
Output Interface	2-channel CXP-6 CoaXPress w/PoCXP	Strobe Output	2 strobes, programmable position and duration
Resolution	4416 (H) x 4436 (V)	Pulse Generator	Yes, programmable
Sensor	Sony Pregius IMX367 CMOS Color/Mono	Data Correction	2 LUTs pre-programmed with Gamma 0.45,
Sensor Format	15.2 mm (H) x 15.3 mm (V), 4/3" optical format		2 LUTs pre-programmed with Negative LUT; Bad and Defective pixel correction (static),
Pixel Size	3.45 microns square		8 Flat field correction tables
Shutter	Global shutter (GS)	Forced Air Cooling Control	On, Off, Auto
Sensor Digitization	10, 12-bit	Lens Mount	F-Mount (default)
Frame Rate	39.6 fps (8-bit), 39.6 fps (10-bit), 28.3 fps	Canon EF-Mount	Optional, Active or Passive
D D	(12-bit)	Power	Power over CoaXPress or 12 V/24 V external
Dynamic Range	71 dB		power supply (Optional)
Output Bit Depth	8, 10, 12-bit Manual, Auto; 0 dB – 48 dB, 480 steps	Power Consumption	Typ. (Fan is On): 9.2 W (at 25 °C),
Analog/Digital Gain			Max. (Fan is Off): 9.9 W (at 25 °C)
Digital Gain	1x (0 dB) to 4x (12 dB) with a precision of 0.001x	Size - Width/Height/Length	60 mm (W) x 60 mm (H) x 60.2 mm (L)
AEC/AGC	Off, Once, Auto	Weight	500 g
Gamma Correction	0.00 to 4.00, with a step of 0.01	Vibration, Shock	20G (20 – 200 Hz XYZ) /100G
Black Level Offset	Manual (0 – 255), Auto	Environmental	-30 °C to +65 °C Operating (Fan is On), -30 °C to +50 °C Operating (Fan is Off);
White Balance	Manual, Auto, Once, Off		-40 °C to +85 °C Storage
Shutter Speed	36 µs to 16.0 s	Humidity	10% to 90% non-condensing
Exposure Control	Off, Internal, External, Auto	MTBF	TBD
Regions of Interest (ROI)	1 ROI	Military Standard	MIL-STD-810G
Binning	1 x 2, 2 x 1, 2 x 2	Regulatory	FCC Part 15 Class A, CE, RoHS UKCA
Sub-sampling	1 x 2, 2 x 1, 2 x 2		
Trigger Inputs	External, Pulse generator, Software Link Trigger (Trigger over CXP)		
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)		



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

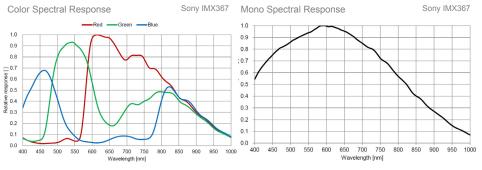
Ball Grid Array

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



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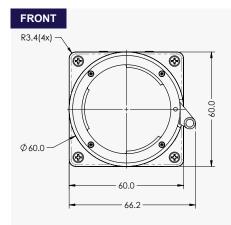
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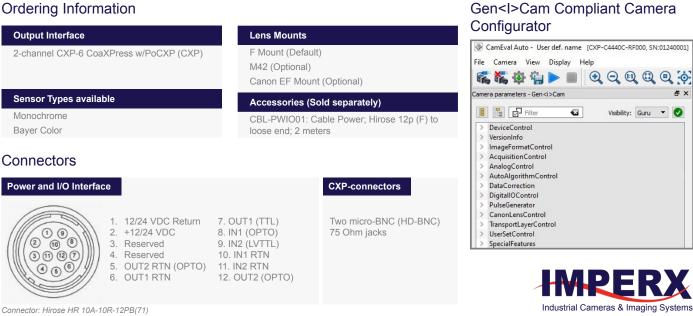
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Dimensions



Ordering Information



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WWW IMPERX COM

Rev: cxp_c4440_r8_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)

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