CHEETAH

RUGGEDIZED CAMERA SERIES

C4120 CMOS 12 MP

Camera Link®



Imperx: C4120

The Cheetah CLF-C4120 camera features the Sony Pregius IMX-253 Global Shutter CMOS sensor with a native resolution of 4112 x 3008 in a 1.1" optical format delivering up to 42 frames per second with a Camera Link® Full, PoCL output. The Sony Pregius image sensor delivers outstanding sensitivity and excellent image quality. Imperx puts you in control by providing full access to raw data without corrections. Using the simple intuitive graphical user interface, you can quickly apply or remove image corrections. The C4120'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
Interfaces available	Camera Link® Base, Medium, Full w/PoCL	Strobe Output	2 strobes, programmable position and duration
Resolution	4112 (H) x 3008 (V)	Pulse Generator	Yes, programmable
Sensor Sensor Format	Sony Pregius IMX-253 CMOS Color/Mono 14.1mm (H) x 10.3mm (V); 1.1" optical format	Data Correction	4 LUTs; 1 LUT pre-programmed with Gamma 0.45; Bad pixel correction (static, dynamic)
Pixel Size Shutter Digitization Frame Rate	3.45 microns square Global shutter (GS) 8, 10, 12 bit 42 (8-bit), 34 (10-bit), 14 (12-bit)	Lens Mount P-IRIS Supply Voltage Range Camera Current	C-Mount (default) Optional 12VDC (5V – 30V), 1.5 A inrush Typical: 220mA/12V
Pixel Clock Rate Dynamic Range Output Bit Depth Analog/Digital Gain White Balance Shutter Speed Exposure Control Regions of Interest (ROI) Binning	37.125MHz 71dB 8, 10, 12 bit Manual, auto; 0-48 dB, 480 steps Manual, Auto, Off 1 µs/step, 14 µs to 16.0 sec. Off, internal, external, auto 2 ROI 1x2, 2x1, 2x2	PoCL Size - Width/Height/Length Weight Vibration, Shock Environmental Humidity MTBF Military Standard Regulatory	PoCL capable in medium/full mode 37mm (W), 37mm (H), 48.6mm (L) 91.8g TBD -30° C to +75° C 10% to 90% non-condensing TBD MIL-STD-810F FCC Part 15, CE, RoHS
Sub-sampling Trigger Inputs Trigger Options Trigger Modes External Inputs/Outputs	1x2, 2x1, 2x2 External, pulse generator, software, computer Edge, debounce Free run, Standard, Fast 2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)		

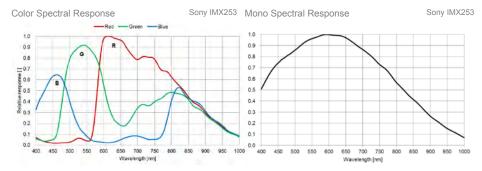


Imperx: C4120 Applications

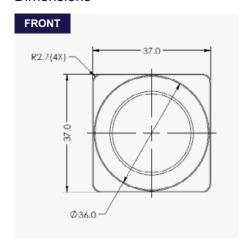
The CLF C4120 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

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

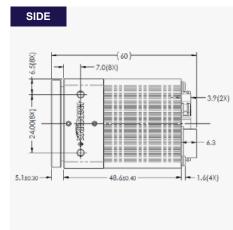
Absolute Quantum Efficiency



Dimensions





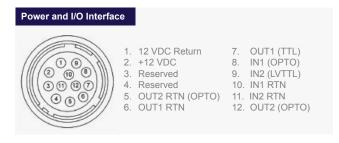


Ordering Information





Hirose Connectors



Camera Link GUI





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

WWW.IMPERX.COM