

Front View

Rear View

C5420 CMOS 17 MP

Camera Link®

Imperx: C5420

The CLF-C5420 camera features the Sony Pregius IMX387 Global Shutter CMOS sensor with a native resolution of 5472 x 3084 in a 4/3" optical format delivering up to 32 frames per second with Camera Link® Full Power over Camera Link (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 image corrections, if desired. The C5420'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 Resolution Sensor Sensor Format Pixel Size Shutter Sensor Digitization Frame Rate Dynamic Range Output Bit Depth Analog/Digital Gain Digital Gain Black Level Offset White Balance Shutter Speed Exposure Control Regions of Interest (ROI)	Camera Link® Base, Medium, Full w/PoCL® 5472 (H) x 3084 (V) Sony Pregius IMX387 CMOS Color/Mono 18.9 mm (H) x 10.6 mm (V), 4/3" optical format 3.45 microns square Global shutter (GS) 8, 10, 12-bit 32 fps (8-bit), 26 fps (10-bit), 22 fps (12-bit) 71 dB 8, 10, 12-bit Manual, Auto; 0 dB – 48 dB, 480 steps 1x (0 dB) to 4x (12 dB) with a precision of 0.001x Manual (0 – 255), Auto Manual, Auto, Off 30 µs to 16.0 s Off, Manual, External, Auto 2 ROI	Strobe Output Pulse Generator Data Correction Lens Mount Canon EF Mount Supply Voltage Range Camera Current Power Consumption PoCL Capable Size - Width/Height/Length Weight Vibration, Shock Environmental Humidity MTBF Military Standard	2 strobes, programmable position and duration Yes, programmable 4 LUTs pre-programmed with Gamma 0.45; Bad pixel correction (static, dynamic), Flat field correction F-Mount (default) Optional, Active or Passive 12 VDC (6 V – 30 V), 1.5 inrush @ 12 V Typical: 350 mA @ 12 V Typical: 4.2 W Yes, in Medium/Full mode 60.0 mm (W) x 60.0 mm (H) x 57 mm (L) 340 g 20G/100G -30 °C to +75 °C Operating, -40 °C to +85 °C Storage 10% to 90% non-condensing TBD MIL-STD-810G
Binning Sub-sampling	1x2, 2x1, 2x2 (Mono cameras only) 1x2, 2x1, 2x2	Regulatory	FCC Part 15 Class A, CE, RoHS, UKCA
Trigger Inputs Trigger Options Trigger Modes External Inputs/Outputs	External, Pulse generator, Software, Computer Edge, Pulse width, Trigger filter, Trigger delay, Debounce Free run, Standard, Fast 2 IN (OPTO, LVTTL) / 2 OUT (OPTO, TTL)		

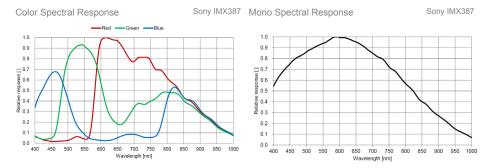


Imperx: C5420 Applications

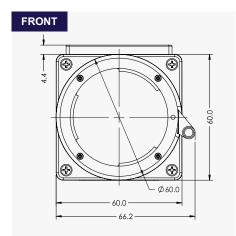
The CLF-C5420 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

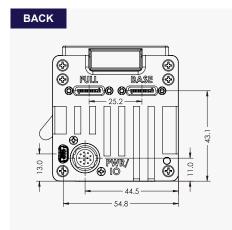
Aerospace • Satellites • Surveillance • Ball Grid Array • Printed Circuit Board Inspection • Motion Analysis • Broadcast Television • Telepresence • Unmanned Aerial Vehicles • Machine Vision • Intelligent Traffic Systems • Aerial Imaging • Open Road Tolling Systems • Situational Awareness

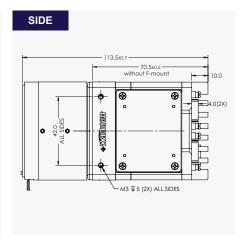
Absolute Quantum Efficiency



Dimensions







Ordering Information





Hirose Connectors



Connector: Hirose HR10A-10R-12PB(71)

Rev: cl_c5420_r5_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)

Software/Drivers/Interface





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