# CHEETAH

**C2020** CMOS 3.1 MP

Camera Link®



Imperx: C2020

The CLF-C2020 camera features the Sony Pregius IMX-252 Global Shutter CMOS sensor with a native resolution of 2064 x 1544 in a 1/1.8" optical format delivering up to 148 frames per second with 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 C2020'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

Description	Feature	Description
Camera Link® Base, Medium, Full w/PoCL	Strobe Output	2 strobes, programmable position and duration
2064 (H) x 1544 (V)	Pulse Generator	Yes, programmable
Sony Pregius IMX-252 CMOS Color/Mono	Data Correction	4 LUTS; 1 LUT pre-programmed with Gamma
7.0 mm (H) x 5.3 mm (V), 1/1.8" diagonal		0.45; Bad pixel correction (static, dynamic)
3.45 microns square		C-Mount (default)
Global shutter (GS)	P-IRIS	Optional
8, 10, 12 bit	Supply Voltage Range	12VDC (5V – 30V), 1.5 A inrush
148 (8-bit), 121 (10-bit), 54 (12-bit)	Camera Current	Typical: 200mA/12V
37.125MHz	PoCL	PoCL capable in medium/full mode
71dB	Size - Width/Height/Length	37mm (W), 37mm (H), 48.6mm (L)
8, 10, 12 bit	Weight	91.8g
Manual, auto; 0-48 dB, 480 steps	Vibration, Shock	TBD
Manual, Auto, Off	Environmental	-30° C to +75° C
1 µs/step, 14 µs to 16.0 sec.	Humidity	10% to 90% non-condensing
Off, internal, external, auto	MTBF	TBD
2 ROI	Military Standard	MIL-STD-810F
1x2, 2x1, 2x2	Regulatory	FCC Part 15 Class A, CE, RoHs
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	Camera Link® Base, Medium, Full w/PoCL 2064 (H) x 1544 (V) Sony Pregius IMX-252 CMOS Color/Mono 7.0 mm (H) x 5.3 mm (V), 1/1.8" diagonal 3.45 microns square Global shutter (GS) 8, 10, 12 bit 148 (8-bit), 121 (10-bit), 54 (12-bit) 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	Camera Link® Base, Medium, Full w/PoCL 2064 (H) x 1544 (V) Sony Pregius IMX-252 CMOS Color/Mono 7.0 mm (H) x 5.3 mm (V), 1/1.8" diagonal 3.45 microns square Global shutter (GS) 8, 10, 12 bit 148 (8-bit), 121 (10-bit), 54 (12-bit) 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 1x2, 2x1, 2x2 External, pulse generator, software, computer Edge, debounce Free run, Standard, Fast



# Imperx: C2020 Applications

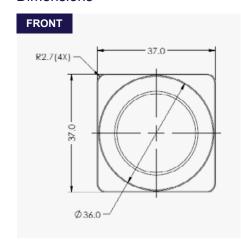
The CLF C2020 incorporates a number of unique features tailored to reduce system complexity, maximize interface bandwidth, and expand the usable operational range.

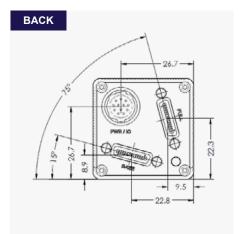
Aerospace • Satellites • Surveillance • Ball Grid Array • Printed Circuit Board Inspection • Motion Analysis • Broadcast Television • Telepresence • Unmanned Aerial Vehicles • Machine Vision • Intelligent Traffic Systems • Aerial Imaging • Open Road Tolling Systems • Situational Awareness

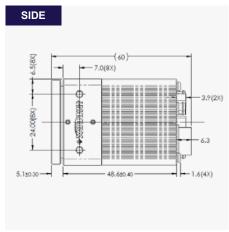
# Absolute Quantum Efficiency



#### **Dimensions**





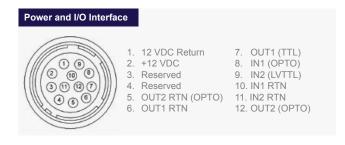


### Ordering Information





# Hirose Connectors



#### Software/Drivers/Interface





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