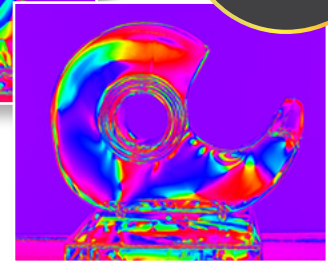
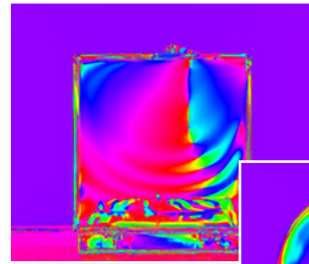


Phoenix™

The World's Smallest Industrial PoE Camera



C-Mount Model



Polarized Model

Polarized Phoenix Model

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	Chroma	Interface
PHX050S-P	5.0 MP	2448 x 2048 px	24 fps	Sony IMX250MZR CMOS*	2/3"	3.45 µm	Global	C / NF	Polarized Mono	GigE Vision
PHX050S-Q				Sony IMX250MYR CMOS*					Polarized Color	

*Four directional filter pixel array in 0°, 45°, 90°, 135°

Specifications

Interface and Power Information		Imaging Properties	
Digital Interface	1000BASE-T RJ45, PoE	Image Buffer	128 MB
GPIO Interface	8 pin JST connector	Image Processing	Gain
Opto-isolated I/O ports	1 input, 1 output	Pixel Formats	Mono8/12/16, PolarizeMono8/12/16 (Mono) BayerRG8/12/16, PolarizeMono8/12/16 (Color)
Non-isolated I/O ports	2 bi-directional	Image Modes	ROI, horizontal and vertical flip
Dimension	24 x 24 x 27.35* mm	ADC	12 bit
Lens Mount	C / NF-mount	Gain Range	0 dB to 48 dB analog and digital
Weight	30 g	Exposure Time	30 µs to 10 s
Power Requirement	PoE (12-24V) IEEE 802.3af		
Power Consumption	2.5W via V_ext, ~3.1W via PoE		
Standard and Certifications		Camera Features	
Standard	GigE Vision v2.0	User Sets	1 default and 2 custom
Compliance	CE, FCC, RoHS, REACH, WEEE	File system size	16 MB
Storage Temperature	-30 to 60C	Chunk Data	Timestamp, frame counter, offset X/Y, width/height, exposure time, gain, black level, line status, sequencer set
Operating Temperature	-10 to 55 C	Event Data	Acquisition start/end, exposure start/end, line rise/fall, error
Humidity	Operating: 20% - 80%, relative, non-condensing	Counter & Timer	2 counters and 2 timers
Storage	20% - 95%, relative, non-condensing	Sequencer	Exposure time, gain
Warranty	3 years	Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)

*Not including lens barrel or interface ports



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PhoenixTM

The World's Smallest Industrial PoE Camera



Applications:

Industrial Inspection:

- **Electronic manufacturing**
- **Wafer, flat panel display, carbon fiber, solar panel inspection**
- **Automotive (glass, body and tire marking) inspection**
 - Identify stress points
 - Identify defects and surface imperfections

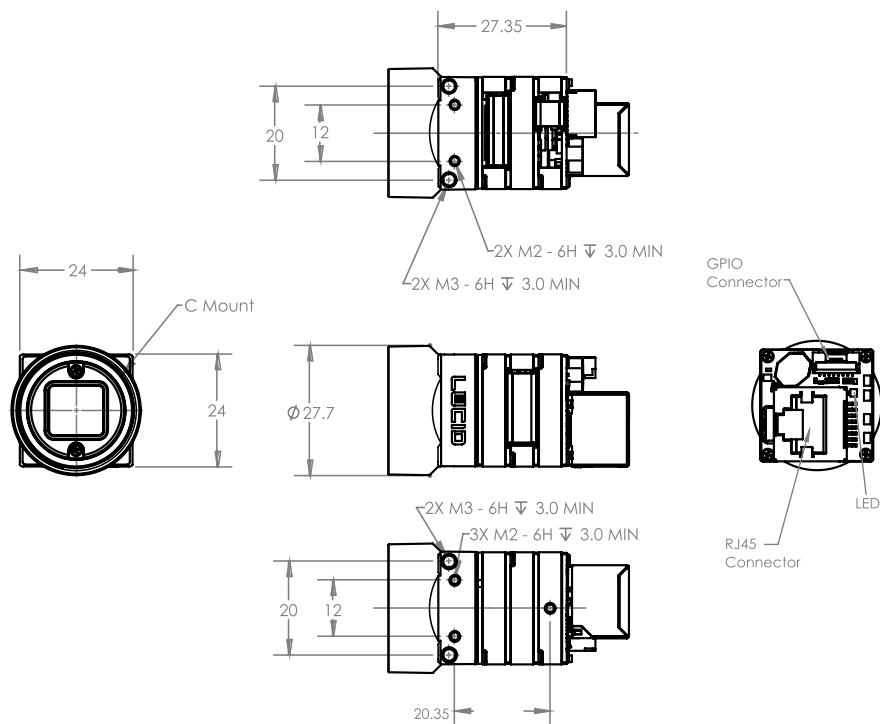
Food Sorting and Inspection

- Classification of stem, leaves, fruits
- Identification of foreign objects

Microscopy

- Material and particle characterization

C-Mount Model



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