

# Phoenix<sup>TM</sup>

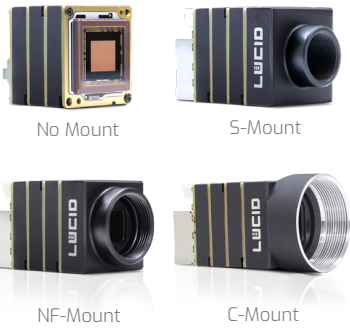
Polarization Models Available

## Flexible Camera Module Designed for Easy OEM Integration

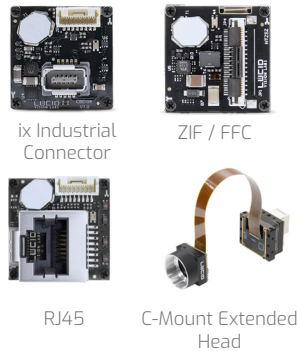


- Wide selection of sensors from 0.4 MP to 20 MP
- 4 lens mounts & 3 connectors
- 3 camera orientations
- FFC extender options

### Lens Mounts



### Connectors



### Transformable

Transform Kit for multiple 90° and 180° shape configurations.



**GigE**  
VISION

### Phoenix Models

28x28mm

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	Chroma	GigE Interface
PHX200S	20.0 MP	5472 x 3648 px	5.6 fps	Sony IMX183 CMOS	1"	2.40 µm	Rolling	C / No Mount	M/C	RJ45 / ix / FFC
PHX124S	12.3MP	4096 x 3000 px	9.0 fps	Sony IMX565 CMOS	1/1.1"	2.74 µm	Global	C / No Mount	M/C	RJ45 / ix / FFC
PHX120S	12.3 MP	4096 x 3000 px	9.0 fps	Sony IMX304 CMOS	1.1"	3.45 µm	Global	C / No Mount	M/C	RJ45 / ix / FFC
PHX089S	8.9 MP	4096 x 2160 px	12.5 fps	Sony IMX267 CMOS	1"	3.45 µm	Global	C / No Mount	M/C	RJ45 / ix / FFC
PHX081S	8.1 MP	2840 x 2840 px	13.8 fps	Sony IMX566 CMOS	2/3"	2.74 µm	Global	C / No Mount	M/C	RJ45 / ix / FFC

24x24mm

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount*	Chroma	GigE Interface
PHX122S	12.2 MP	4024 x 3036 px	9.1 fps	Sony IMX226 CMOS	1/1.7"	1.85 µm	Rolling	C / CEH / NF / NM	M/C	RJ45 / ix / FFC
PHX064S	6.3 MP	3072 x 2048 px	17.7 fps	Sony IMX178 CMOS	1/1.8"	2.40 µm	Rolling	C / CEH / NF / S / NM	M/C	RJ45 / ix / FFC
PHX050S-P/Q	5.0 MP	2448 x 2048 px	22 fps	Sony IMX250MZR CMOS Sony IMX250MYR CMOS	2/3"	3.45 µm	Global	C / CEH / NF / NM	Polarized M Polarized C	RJ45 / ix / FFC
PHX050S1-P/Q	5.0 MP	2448 x 2048 px	22 fps	Sony IMX264MZR CMOS Sony IMX264MYR CMOS	2/3"	3.45 µm	Global	C / CEH / NF / NM	Polarized M Polarized C	RJ45 / ix / FFC
PHX051S	5.0 MP	2448 x 2048 px	22 fps	Sony IMX568 CMOS	1/1.8"	2.74 µm	Global	C / CEH / NF / NM	M / C	RJ45 / ix / FFC
PHX050S	5.0 MP	2448 x 2048 px	22 fps	Sony IMX264 CMOS	2/3"	3.45 µm	Global	C / CEH / NF / NM	M / C	RJ45 / ix / FFC
PHX032S	3.2 MP	2048 x 1536 px	35.4 fps	Sony IMX265 CMOS	1/1.8"	3.45 µm	Global	C / CEH / NF / S / NM	M / C	RJ45 / ix / FFC
PHX023S	2.3 MP	1920 x 1200 px	48.3 fps	Sony IMX392 CMOS	1/2.3"	3.45 µm	Global	C / CEH / NF / S / NM	M / C	RJ45 / ix / FFC
PHX016S	1.6 MP	1440 x 1080 px	71.6 fps	Sony IMX273 CMOS	1/2.9"	3.45 µm	Global	C / CEH / NF / S / NM	M / C	RJ45 / ix / FFC
PHX004S	0.4 MP	728 x 544 px	286 fps	Sony IMX287 CMOS	1/2.9"	6.9 µm	Global	C / CEH / NF / S / NM	M / C	RJ45 / ix / FFC

\*Lens Mount: C=C-mount, CEH=C-mount Ext Head, NF=NF Mount, S=S-mount, NM=No mount

# Phoenix<sup>TM</sup>

The World's Smallest Industrial PoE Camera



## Specifications

Interface, Power, and Size Information	
Digital Interface	1000BASE-T RJ45 PoE, FFC PoE, ix Industrial Connector PoE
GPIO Interface	8 pin JST connector
Opto-isolated I/O ports	1 input, 1 output
Non-isolated I/O ports	2 bi-directional
Dimensions*	24x24x27.35 mm / 28x28x28.4 mm
Lens Mount	C, NF, S, No Mount
Weight	30 g (24x24mm) / 39 g (28x28mm)
Power Requirement	PoE IEEE 802.3af, or 12-24VDC external
Power Consumption**	3.1W via PoE, 2.6W via V_ext

\*Not including lens barrel or interface ports

\*\* Power consumption may vary by model, please check our website for details

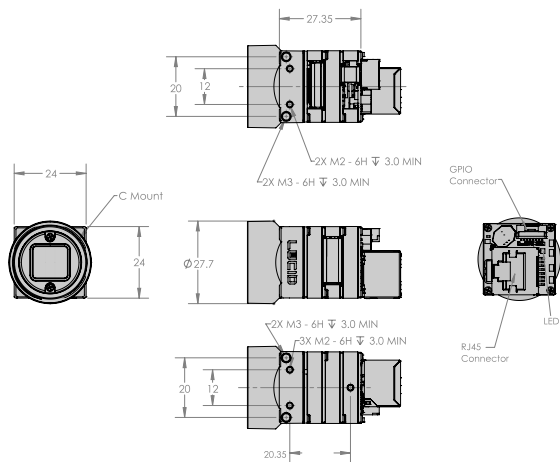
Standard and Certifications	
Standard	GigE Vision v2.0
Compliance	CE, FCC, RoHS, REACH, WEEE
Storage Temperature	-30 to 60°C
Operating Temperature	-10 to 55°C ambient
Humidity	Operating: 20% ~ 80%, relative, non-condensing
Storage Humidity	20%~95%, relative, non-condensing
Warranty	3 year

Imaging Properties	
Image Buffer	128 MB
Image Processing	Gain, gamma, black level, white balance, LUT, CCM, pixel correction, hue, saturation, color space conversion
Pixel Formats	Mono8/10/12/16, Bayer8/10/12/16, RGB8, BGR8, YCbCr411, YUV422, YUV411
Image Modes	Horizontal and vertical binning, decimation, ROI, horizontal and vertical flip
ADC	12 bit
Gain Range*	0 dB to 48 dB analog and digital
Exposure Time*	30 μs to 10 s

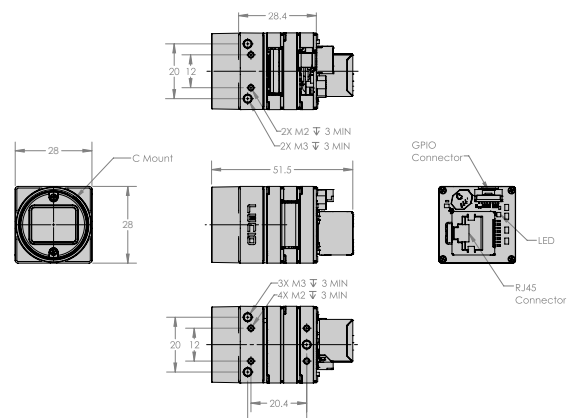
\*Rolling shutter models have different values, please check Phoenix product page on our website for details

Camera Features	
User Sets	1 default and 2 custom
File System Size	16 MB
Chunk Data	Frame counter, offset X/Y, width/height, exposure time, gain, black level, line status, sequencer set
Event Data	Acquisition start/end, exposure start/end, line rise/fall, error
Counter & Timer	2 counters and 2 timers
Sequencer	Exposure time, gain
Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)

C-Mount 24x24 mm Model



C-Mount 28x28 mm Model



For more schematics please visit [www.thinklucid.com/phoenix/](http://www.thinklucid.com/phoenix/)

