

THE INDUSTRIAL CAMERA EVOLVED



Be Inspired. Think LUCID.

LUCID
VISION LABS



Flexible Camera Module Designed for Easy OEM Integration

The Phoenix is a micro compact camera with a versatile board design, measuring only 24 x 24 mm and 28 x 28 mm. Its default shape resembles a traditional camera but can easily be transformed to best fit your application. It further advances industrial miniaturization with options for compact S or NF-mount lens and FCC or ix Industrial® Ethernet connectors.



PhoenixTM

Flexible Camera Module Designed for Easy OEM Integration

24 x 24 mm Models



C-mount



NF-mount



S-mount



No mount (NM)



RJ45 Connector



FFC Connector



ix Connector

	Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
	PHX122S	12.2 MP	4024 x 3036 px	9.1 fps	Sony IMX226 CMOS	1/1.7"	1.85 µm	Rolling	C/NM	RJ45 / ix / FFC
	PHX064S	6.3 MP	3072 x 2048 px	17.7 fps	Sony IMX178 CMOS	1/1.8"	2.4 µm	Rolling	C/NF/NM	RJ45 / ix / FFC
	PHX050S-PC	5.0 MP	2448 x 2048 px	22 fps	Sony IMX250MZR CMOS	2/3"	3.45 µm	Global	C/NF/S/NM	RJ45 / ix / FFC
	PHX050S-QC				Sony IMX250MYR CMOS					
	PHX050S1-PC	5.0 MP	2448 x 2048 px	22 fps	Sony IMX264MZR CMOS	2/3"	3.45 µm	Global	C/NF/S/NM	RJ45 / ix / FFC
	PHX050S1-QC				Sony IMX264MYR CMOS					
	PHX051S	5.0 MP	2448 x 2048 px	22 fps	Sony IMX568 CMOS	1/1.8"	2.74 µm	Global	C/NF/S/NM	RJ45 / ix / FFC
	PHX050S	5.0 MP	2448 x 2048 px	22 fps	Sony IMX264 CMOS	2/3"	3.45 µm	Global	C/NF/NM	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/NF/S/NM	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/NF/NM	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/NF/S/NM	RJ45 / ix / FFC
	PHX004S	0.4 MP	728 x 544 px	286 fps	Sony IMX287 CMOS	1/2.9"	6.9 µm	Global	C/NF/S/NM	RJ45 / ix / FFC

For the latest Phoenix models and machine vision accessories, including NF-mount lenses and ix Industrial cables please visit www.thinklucid.com

28 x 28 mm Models



C-mount with RJ45



	Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
	PHX200S	20.0 MP	5472 x 3648 px	5.6 fps	Sony IMX183 CMOS	1"	2.40 µm	Rolling	C/No-mount	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	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	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	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	RJ45 / ix / FFC

Highlights



Lens Mounts

Choose between S, NF, and C-mount, and for those who need maximum space-savings, a no-mount option is available.



Transformable

Transform any Phoenix camera. Get everything you need with our Phoenix Transform Kit for 90° and 180° shape configurations.



Ethernet Connectors

In addition to RJ45, the Phoenix camera offers the ix Industrial Ethernet connector and Flat Flexible Cable (FFC) connector.



C-Mount Extended Head

The C-mount extended head option ensures flexible integration and helps installation requirements in tight spaces. Available for all 24x24 mm models.



Factory Tough™ Industrial Camera

The Triton camera sets a new price performance standard in the industrial camera market. Active Sensor Alignment for superior optical performance, a lightweight, compact 29 x 29 mm size, and IP67 protection with a sealed lens tube make the Triton camera suitable for harsh industrial environments. The M12 Ethernet and M8 I/O connectors provide a robust and sturdy connection. All Triton models are shock and vibration certified.



Triton[®] Factory Tough™ Industrial Camera

Triton2 Models



2.5GiGE
with Power over Ethernet

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
TRT245S	24.5 MP	5320 x 4600 px	11.5 fps	Sony IMX540 CMOS	1.2"	2.74 µm	Global	C	M12
TRT204S*	20.4 MP	4504 x 4504 px	13.5 fps	Sony IMX541 CMOS	1.1"	2.74 µm	Global	C	M12
TRT200S*	20.0 MP	5472 x 3648 px	9.0 fps	Sony IMX183 CMOS	1"	2.40 µm	Rolling	C	M12
TRT162S*	16.2 MP	5320 x 3040 px	17.5 fps	Sony IMX542 CMOS	1.1"	2.74 µm	Global	C	M12
TRT124S	12.3 MP	4096 x 3000 px	22.5 fps	Sony IMX545 CMOS	1/1.1"	2.74 µm	Global	C	M12
TRT081S	8.1 MP	2840 x 2840px	34.5 fps	Sony IMX546 CMOS	2/3"	2.74 µm	Global	C	M12
TRT051S	5.0 MP	2448 x 2048px	55.0 fps	Sony IMX547 CMOS	1/1.8"	2.74 µm	Global	C	M12

Triton Models



GiGE
VISION

	TRT245S	24.5 MP	5320 x 4600 px	4.5 fps	Sony IMX540 CMOS	1.2"	2.74 µm	Global	C	M12
	TRT204S	20.4 MP	4504 x 4504 px	5.5 fps	Sony IMX541 CMOS	1.1"	2.74 µm	Global	C	M12
	TRT200S	20.0 MP	5472 x 3648 px	5.6 fps	Sony IMX183 CMOS	1"	2.40 µm	Rolling	C	M12
	TRT162S	16.2 MP	5320 x 3040 px	6.9 fps	Sony IMX542 CMOS	1.1"	2.74 µm	Global	C	M12
	TRT124S	12.3 MP	4096 x 3000 px	9.0 fps	Sony IMX545 CMOS	1/1.1"	2.74 µm	Global	C	M12
	TRT120S	12.3 MP	4096 x 3000 px	9.0 fps	Sony IMX304 CMOS	1.1"	3.45 µm	Global	C	M12
	TRT122S	12.2 MP	4024 x 3036 px	9.1 fps	Sony IMX226 CMOS	1/1.7"	1.85 µm	Rolling	C	M12
	TRT089S	8.9 MP	4096 x 2160 px	12.5 fps	Sony IMX267 CMOS	1"	3.45 µm	Global	C	M12
	TRT081S	8.1 MP	2840 x 2840px	13.8 fps	Sony IMX546 CMOS	2/3"	2.74 µm	Global	C	M12
	TRT071S	7.1 MP	3208 x 2200 px	15.8 fps	Sony IMX428 CMOS	1.1"	4.5 µm	Global	C	M12
	TRT064S	6.3 MP	3072 x 2048 px	17.7 fps	Sony IMX178 CMOS	1/1.8"	2.40 µm	Rolling	C	M12
ALTA VIEW	TDR054S	5.4 MP	2880 x 1860 px	13.8 fps	Sony IMX490 CMOS	1/1.55"	3.0 µm	Rolling	C	M12
	TRT054S	5.4 MP	2880 x 1860 px	20.8 fps	Sony IMX490 CMOS	1/1.55"	3.0 µm	Rolling	C	M12
	TRT050S-PC TRT050S-QC	5.0 MP	2448 x 2048 px	22 fps	Sony IMX250MZR CMOS Sony IMX250MYR CMOS	2/3"	3.45 µm	Global	C	M12
	TRT050SI-PC TRT050SI-QC	5.0 MP	2448 x 2048 px	22 fps	Sony IMX264MZR CMOS Sony IMX264MYR CMOS	2/3"	3.45 µm	Global	C	M12
	TRT051S	5.0 MP	2448 x 2048px	22fps	Sony IMX547 CMOS	1/1.8"	2.74 µm	Global	C	M12
	TRT050S	5.0 MP	2448 x 2048 px	22 fps	Sony IMX264 CMOS	2/3"	3.45 µm	Global	C	M12
	TRT032S	3.2 MP	2048 x 1536 px	35.4 fps	Sony IMX265 CMOS	1/1.8"	3.45 µm	Global	C	M12
	TRT028S	2.8 MP	1936 x 1464 px	39.2 fps	Sony IMX429 CMOS	2/3"	4.5 µm	Global	C	M12
	TRT023S	2.3 MP	1920 x 1200 px	48.3 fps	Sony IMX392 CMOS	1/2.3"	3.45 µm	Global	C	M12
	TRT016S	1.6 MP	1440 x 1080 px	71.6 fps	Sony IMX273 CMOS	1/2.9"	3.45 µm	Global	C	M12
	TRT005S	0.5 MP	812 x 620 px	166.4 fps	Sony IMX433 InGaAs	1/1.7"	9.0 µm	Global	C	M12
	TRT004S	0.4 MP	728 x 544 px	286 fps	Sony IMX287 CMOS	1/2.9"	6.9 µm	Global	C	M12
SWR Sensors	TRT013S-WC	1.3 MP	1280 x 1024 px	84.9 fps	Sony IMX990 InGaAs	1/2"	5.0 µm	Global	C	M12
SWR Sensors	TRT003S-WC	0.3 MP	640 x 512 px	257 fps	Sony IMX991 InGaAs	1/4"	5.0 µm	Global	C	M12

Line Scan

Model	Resolution	Line Rate	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
TRT02KA	2048 x 1px	60 kHz	AMS Dragster DR-2k-7	14.3 mm	7.0 µm	Global	C	M12

Embedded Vision

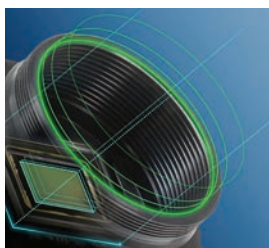
Model	MP	Resolution	Chipset	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
Triton Edge*	1.6 MP	1440 x 1080 px	Xilinx UltraScale+ ZU3CG MPSoC	Sony IMX296 CMOS	1/2.9"	3.45 µm	Global	C	M12

Highlights



IP67 Protection

By adding LUCID's IP67 lens tube, the camera can be protected from both dust and water particles.



Active Sensor Alignment

All Triton cameras are actively aligned to minimize sensor tilt and rotation, and to place the center of the sensor at the lens optical axis.



M12 and M8 Connectors

Designed to provide a sealed connection resistant to shock and vibration. Shielded against electrical interference.



Sony Sensors

Designed to maximize the performance of Pregius and Starvis CMOS sensors, including polarized sensors.



Beyond Small and Light

At only 67 grams and 29 x 29 mm, the Triton is an easy and reliable fit in any environment.

*Preliminary / Coming soon



High Resolution and High Speed

25GigE SFP28, 10GBASE-T PoE and 5GBASE-T PoE camera models are capable of data transfer rates of 2.5 GB, 1.2 GB or 600 MB per second. Its large format allows for higher resolutions and higher frame rates. The Atlas models are actively aligned sensors for superior optical performance.



Atlas and Atlas IP67

5GiGE
with Power over Ethernet

Atlas10

10GiGE
with Power over Ethernet

Atlas25

25GiGE

GiGE
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GEN<i>CAM



Atlas25 / Atlas10 / Atlas™

Atlas25



25GiGE

4th GENERATION
Pregius S

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
ATO245S*	24.5 MP	5320 x 4600 px	75 fps	Sony IMX530 CMOS	1.2"	2.74 µm	Global	C-mount	25GigE, SFP28
ATO204S*	20.4 MP	4504 x 4504 px	89 fps	Sony IMX531 CMOS	1.1"	2.74 µm	Global	C-mount	25GigE, SFP28

Atlas10



10GiGE+RDMA

with Power over Ethernet

4th GENERATION
Pregius S



Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
ATX650G	65.0 MP	9344 x 7000 px	14.5 fps	Gpixel GMAX3265 CMOS	2.3"	3.2 µm	Global	TFL-II (M48 x 0.75)	10GBASE-T, M12
ATX470S	47.0 MP	8240 x 5628 px	22.5 fps	Sony IMX492 CMOS	1.4"	2.315 µm	Rolling	TFL (M35 x 0.75)	10GBASE-T, M12
ATX245S	24.5 MP	5320 x 4600 px	45.4 fps	Sony IMX530 CMOS	4/3"	2.74 µm	Global	TFL / C-mount	10GBASE-T, M12
ATX204S	20.4 MP	4504 x 4504 px	54.1 fps	Sony IMX531 CMOS	1.1"	2.74 µm	Global	C-mount	10GBASE-T, M12
ATX162S	16.2 MP	5320 x 3040 px	76.1 fps	Sony IMX532 CMOS	1.1"	2.74 µm	Global	C-mount	10GBASE-T, M12
ATX124S	12.3 MP	4096 x 3000 px	89.7 fps	Sony IMX535 CMOS	1/1.1"	2.74 µm	Global	C-mount	10GBASE-T, M12
ATX081S-UC	8.1 MP	2840 x 2840 px	126.0 fps	Sony IMX487 CMOS	2/3"	2.74 µm	Global	C-mount	10GBASE-T, M12
ATX081S	8.1 MP	2840 x 2840 px	136.7 fps	Sony IMX536 CMOS	2/3"	2.74 µm	Global	C-mount	10GBASE-T, M12
ATX051S	5.0 MP	2448 x 2048 px	205 fps	Sony IMX537 CMOS	1/1.8"	2.74 µm	Global	C-mount	10GBASE-T, M12

Atlas



5GiGE

with Power over Ethernet

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
ATL314S	31.4 MP	6464 x 4852 px	17.9 fps	Sony IMX342 CMOS	APS-C	3.45 µm	Global	TFL (M35 x 0.75)	5GBASE-T, M12
ATL196S	19.6 MP	4416 x 4428 px	27.9 fps	Sony IMX367 CMOS	4/3"	3.45 µm	Global	TFL (M35 x 0.75)	5GBASE-T, M12
ATL168S	16.8 MP	5456 x 3076 px	32.9 fps	Sony IMX387 CMOS	4/3"	3.45 µm	Global	TFL (M35 x 0.75)	5GBASE-T, M12
ATL120S	12.3 MP	4096 x 3000 px	42.5 fps	Sony IMX253 CMOS	1.1"	3.45 µm	Global	C-mount	5GBASE-T, M12
ATL089S	8.9 MP	4096 x 2160 px	58.5 fps	Sony IMX255 CMOS	1"	3.45 µm	Global	C-mount	5GBASE-T, M12
ATL071S	7.1 MP	3208 x 2200 px	74.6 fps	Sony IMX420 CMOS	1.1"	4.5 µm	Global	C-mount	5GBASE-T, M12
ATL050S	5.0 MP	2448 x 2048 px	98 fps	Sony IMX250 CMOS	2/3"	3.45 µm	Global	C-mount	5GBASE-T, M12
ATL028S	2.8 MP	1936 x 1464 px	173 fps	Sony IMX421 CMOS	2/3"	4.5 µm	Global	C-mount	5GBASE-T, M12

Atlas IP67



5GiGE+IP67

with Power over Ethernet

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
ATP245S	24.5 MP	5320x4600 px	22.7 fps	Sony IMX540 CMOS	1.2"	2.74 µm	Global	C-mount	5GBASE-T, M12
ATP204S	20.4 MP	4504 x 4504 px	27.3 fps	Sony IMX541 CMOS	1.1"	2.74 µm	Global	C-mount	5GBASE-T, M12
ATP200S	20.0 MP	5472 x 3648 px	17.9 fps	Sony IMX183 CMOS	1"	2.40 µm	Rolling	C-mount	5GBASE-T, M12
ATP162S	16.2 MP	5320 x 3032 px	34.4 fps	Sony IMX542 CMOS	1.1"	2.74 µm	Global	C-mount	5GBASE-T, M12
ATP124S	12.3 MP	4096 x 3000 px	42.5 fps	Sony IMX545 CMOS	1/1.1"	2.74 µm	Global	C-mount	5GBASE-T, M12
ATP120S	12.3 MP	4096 x 3000 px	42.5 fps	Sony IMX253 CMOS	1.1"	3.45 µm	Global	C-mount	5GBASE-T, M12
ATP089S	8.9 MP	4096 x 2160 px	58.5 fps	Sony IMX255 CMOS	1"	3.45 µm	Global	C-mount	5GBASE-T, M12
ATP081S	8.1 MP	2840 x 2840 px	68.8 fps	Sony IMX546 CMOS	2/3"	2.74 µm	Global	C-mount	5GBASE-T, M12
ATP071S	7.1 MP	3208 x 2200 px	74.6 fps	Sony IMX420 CMOS	1.1"	4.5 µm	Global	C-mount	5GBASE-T, M12
ATP051S	5.0 MP	2448 x 2048 px	110 fps	Sony IMX547 CMOS	1/1.8"	2.74 µm	Global	C-mount	5GBASE-T, M12
ATP050S	5.0 MP	2448 x 2048 px	98 fps	Sony IMX250 CMOS	2/3"	3.45 µm	Global	C-mount	5GBASE-T, M12
ATP028S	2.8 MP	1936 x 1464 px	173 fps	Sony IMX421 CMOS	2/3"	4.5 µm	Global	C-mount	5GBASE-T, M12

Atlas SWIR



SWIR+IP67



Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
ATP013-WC	1.3 MP	1280 x 1024 px	84.9 fps	Sony IMX990 InGaAs with TEC	1/2"	5 µm	Global	C-mount	M12 GigE Vision
ATP003-WC	0.3 MP	640 x 512 px	257 fps	Sony IMX991 InGaAs with TEC	1/4"	5 µm	Global	C-mount	M12 GigE Vision

*Preliminary / Coming soon

Helios™ 2

3D Time-Of-Flight (ToF) Camera

LUCID's Helios2 ToF 3D camera has four 850nm VCSEL laser diodes and integrates Sony's DepthSense™ IMX556PLR back-illuminated ToF image sensor with high NIR sensitivity, 10µm pixel size, and high modulation contrast ratio. This IP67 ToF camera can produce depth data at 30 frames per second with 640×480 resolution over a PoE Gigabit Ethernet interface. It is compliant with the GigE Vision and GenICam 3D standard for ease of integration using LUCID's Arena SDK or third-party machine vision software.



GIG
VISION

GEN*i*CAM

HeliosTM 2

3D Time-Of-Flight (ToF) Camera

Helios2+



Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	IP Rating	GigE Interface
HTP003S	0.3 MP	640 x 480 px	30 fps (Normal) 10 fps (HDR) 103 fps (High-Speed)	Sony IMX556 CMOS	1/2"	10 µm	Global	IP67	M12

Physical, Interface, and Power Information

Digital Interface	1 Gigabit Ethernet with PoE, M12 connector IEC 61076-2-109
GPIO Interface	8-pin M8 connector IEC 61076-2-104
I/O ports	1 input, 1 output, 2 bidirectional
Dimension	60 x 60 x 77.5 mm
IP Rating	IP67
Weight	398 g
Power Requirements	PoE+(802.3at), 18-24 V through GPIO

Imaging Properties

Working Range	0.3 - 8.33 m
Distance Modes	Normal (6 modes): (1) 1250 mm, (2) 3000 mm, (3) 4000 mm, (4) 5000 mm, (5) 6000 mm, (6) 8333 mm High Speed (3 modes): (1) 625 mm, (2) 1250 mm, (3) 2500 mm
Accuracy	± 3 mm (0.3 m to 1.5 m)
Precision	± 0.7 mm (measured at 1 m)
Lens Field of View	69° x 51° (nominal)
Illumination	4 x VCSEL laser diodes @ 850nm

Helios2



Model	MP	Resolution	FPS	FoV	Sensor	Format	Pixel Size	Shutter	Max Range	IP Rating	GigE Interface
HLT003S	0.3 MP	640 x 480 px	30 fps	69° x 51°	Sony IMX556 CMOS	1/2"	10 µm	Global	0.3 - 8.33 m	IP67	M12
HTW003S	0.3 MP	640 x 480 px	30 fps	108° x 78°	Sony IMX556 CMOS	1/2"	10 µm	Global	0.3 - 8.33 m	IP67	M12

3D+RGB Kit



Everything you need to create color point clouds

Model SKUs	Quantity	Description
HLT003S or HTP003S	1	Helios2+ or Helios2 Time-of-Flight 3D Camera, IP67, 640x480px, 30 FPS, M12 GigE
TRI032S-CC	1	Triton 3.2MP Color Camera, IP67, 2048 x 1536 px, 32 FPS, M12 GigE
UC060-5M	1	Universe Compact C-Mount Lens 5MP 2/3" 6mm (Manufacturer P/N: BL060C)
IPTC-D270L346	1	IP67 C-Mount Lens Tube, Inner Ø: 27mm, Inner Length: 34.6mm
HLT-TRI-MNT	1	Triton to Helios2 mounting bracket with 8 screws (4x M4 and 4x M3 with washers)
CAB-MR-2M	2	M12 to RJ45 IP67 Cat6a Cable - 2.0m, Dark Green
PCIE-POE2-LR	1	LR-LINK 2-CH PCIe GigE Vision PoE+ Card

Helios Flex



Note: Compatible with NVIDIA AXG Xavier and Jetson TX2 developer kits. NVIDIA AXG Xavier and Jetson TX2 developer kits sold separately. Visit NVIDIA for pricing and purchase information.

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	Interface
HLF003S-001JETUS1 HLF003S-001JETEU1	0.3 MP	640 x 480 px	30 fps	Sony IMX556 CMOS	1/2"	10 µm	Global	Integrated Lens	MIPI D-PHY CSI-2

Helios

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
HLS003S	0.3 MP	640 x 480 px	30 fps	Sony IMX556 CMOS	1/2"	10 µm	Global	Integrated Lens	M12

ARENA™ SDK

Connect, Control, and Create

DEVELOP AND DEPLOY

Comprehensive API Toolkit

The Arena SDK provides API access to a variety of camera feature sets. Image chunk data provides meta-data on captured images. Events and triggers can be used to create deterministic camera operations. Save and load streamable camera settings for quicker setup across multiple cameras.



Our SDK allows you to build and scale custom solutions quickly and easily.

- **Windows • Linux • ARM**
- **Arena C++ library**
- **Arena C Library**
- **Arena .NET library**
- **Python library**
- **JupyterLab**

LEARN AND IMPLEMENT

Code Examples

Check out our code examples to learn how to use features on your camera. Each example project provides a buildable, executable demonstration of how to accomplish a particular task using an available technology.

Examples available in:

- **C++**
- **C**
- **C#**
- **Python**

CONNECT AND VALIDATE

ArenaView GUI with JupyterLab

The Arena SDK includes an easy to use GUI called ArenaView. Based on the GenICam standard, ArenaView allows you to access and validate camera features quickly and easily through the GenICam XML based feature tree. Improved readability for todays diverse range of screen resolutions and optional workspace color schemes.



- **GenICam compliant**
- **Instant feature search**
- **Dockable panels**
- **Histogram**
- **Line View**
- **Pixel Peek**
- **Sharpness Indicator**
- **Optimized for UHD resolutions**
- **Dark and light color schemes**



LUCID's ArenaView capabilities are extended with the addition of **JupyterLab** support, making it more than a simple camera viewer application. JupyterLab provides a built-in and preconfigured interactive development environment that can be used for testing and documenting all SDK functions and camera performances.

- **Built-in JupyterLab in ArenaView**
- **Camera control / image processing**
- **Live Python code**
- **Interactive visualizations**
- **Over 50 examples**

HTML 5, CSS3, JAVASCRIPT

Arena UI

Arena UI is our user interface (UI) framework. Based on HTML 5, CSS3, and JavaScript, it allows users to rapidly create client applications. This flexible UI framework modernizes the approach, look, and maintenance of client applications. For example, build responsive applications that dynamically adjust layout for different screen resolutions or easily change application styles by switching CSS style sheets

FAMILIAR AND CONSISTENT

GenICam 3 Compliant

GenICam™ is an interface agnostic, programming standard for machine vision cameras. The Arena SDK supports the latest GenICam 3 standard enabling faster camera enumeration and a smaller memory footprint.

GEN*i*CAM

- **Consistent GenICam experience**
- **Modernized XML structure for fast loads**
- **Reduced code size and memory usage**
- **Optimized for more efficient embedded system operations**

Accessories



Lenses

Model	Mount	Max Sensor Size	Focal Length	Max Aperture	Weight
Lucid NF120-5M	NF-Mount	2/3"	12 mm	f/2.0	40 g
Lucid NF120-5M-C	C-Mount	2/3"	12 mm	f/2.0	38 g
Edmund Optics 67-709	C-Mount	1/1.8"	6 mm	f/1.4	102 g
Edmund Optics 58-000	C-Mount	2/3"	8.5 mm	f/1.3	80 g
Edmund Optics 58-001	C-Mount	2/3"	12 mm	f/1.8	54 g
Edmund Optics 59-870	C-Mount	2/3"	16 mm	f/1.6	73 g
Edmund Optics 59-871	C-Mount	2/3"	25 mm	f/1.4	73 g
Edmund Optics 59-872	C-Mount	2/3"	35 mm	f/1.65	72 g
Edmund Optics 59-873	C-Mount	2/3"	50 mm	f/2.0	107 g
Computar V0828-MPY	C-Mount	1.1"	8 mm	f/2.8	155 g
Computar V1228-MPY	C-Mount	1.1"	12 mm	f/2.8	98 g
Computar V1628-MPY	C-Mount	1.1"	16 mm	f/2.8	91 g
Computar V2528-MPY	C-Mount	1.1"	25 mm	f/2.8	78 g
Computar V3528-MPY	C-Mount	1.1"	35 mm	f/2.8	103 g
Edmund Optics 11-320	TFL-Mount	APS-C	50 mm	f/1.8	276 g
Edmund Optics 11-322	TFL-Mount	APS-C	100 mm	f/2.88	597 g

More lens options available online.

Lens Tubes

Model	Length	Outer Diameter	Inner Diameter
IPTC-D270L346	46.5 mm	Ø 33.0mm	Ø 27.0 mm
IPTC-D355L299	40 mm	Ø 41.0mm	Ø 35.5 mm
IPTC-D355L399	50 mm	Ø 41.0mm	Ø 35.5 mm
IPTC-D355L599	70 mm	Ø 41.0mm	Ø 35.5 mm
IPTC-D440L385	49.0 mm	Ø 51.0mm	Ø 44.0 mm
IPTC-D440L685	79.0 mm	Ø 51.0mm	Ø 44.0 mm
IPTC-D590L555	66.0 mm	Ø 68.0mm	Ø 59.0 mm
IPTC-D590L715	82.0 mm	Ø 68.0mm	Ø 59.0 mm

Cables

Model	Type	Rating	Length	Weight	AWG	Color
StarTech C6ASPAT7BK	RJ45 (Both)	CAT6a	2.1 m	89 g	26	Black
StarTech C6ASPAT15BK	RJ45 (Both)	CAT6a	4.6 m	190 g	26	Black
LUCID CAB-IR-2M	ix Industrial, RJ45	CAT6a	2.0 m	90 g	26	Black
LUCID CAB-IR-5M	ix Industrial, RJ45	CAT6a	5.0 m	204 g	26	Black
LUCID CAB-MR-2M	M12 X-Coded, RJ45	CAT6a	2.0 m	110 g	26	Dark Green
LUCID CAB-MR-5M-A	M12 X-Coded, RJ45	CAT6a	5.0 m	224 g	26	Dark Green
LUCID CAB-MR-5M	M12 X-Coded, RJ45	CAT6a	5.0 m	224 g	26	Dark Green
LUCID CAB-MR-5M-RA1	M12 X-Coded Right Angle Down, RJ45	CAT6a	5.0 m	248 g	26	Dark Green
LUCID CAB-MR-5M-RA2	M12 X-Coded Right Angle Up, RJ45	CAT6a	5.0 m	248 g	26	Dark Green
LUCID CAB-MR-15M	M12 X-Coded, RJ45	CAT6a	15.0 m	607 g	26	Dark Green
LUCID CAB-MR-15M-RA1	M12 X-Coded Right Angle Down, RJ45	CAT6a	15.0 m	658 g	26	Dark Green
LUCID CAB-MR-15M-RA2	M12 X-Coded Right Angle Up, RJ45	CAT6a	15.0 m	658 g	26	Dark Green
GPIO-8P20	8-pin JST	GPIO	20 cm	3 g	28	Multi-colored
GPIO-M8	8-pin M8	GPIO	1.0 m	86 g	26	Black
GPIO-M8-5M	8-pin M8	GPIO	5.0 m	225 g	26	Black
GPIO-M8-5M-RA1	8-pin M8 Right Angle Down	GPIO	5.0 m	205 g	26	Black
GPIO-M8-5M-RA2	8-pin M8 Right Angle Up	GPIO	5.0 m	205 g	26	Black
GPIO-M8-15M-RA1	8-pin M8 Right Angle Down	GPIO	15.0 m	567 g	26	Black
GPIO-M8-15M-RA2	8-pin M8 Right Angle Up	GPIO	15.0 m	567 g	26	Black

Interface Cards

Model	Form Factor	Ports
PCIE-POE2-MG	PCI Express x4	2 port - 10G/5G/2.5G/1 GigE PoE
PCIE-POE1-MG2	PCI Express x4	1 port - 10G/5G/2.5G/1 GigE PoE
PCIE-POE4-5G	PCI Express x4	4 port - 5G/2.5G/1 GigE PoE+
PCIE-POE4-2G	PCI Express x4	4 port - 2.5G/1 GigE PoE+
PCIE-POE2-LR	PCI Express x4	2 port- GigE PoE+
PCIE-POE1-LR	PCI Express x1	1 port - GigE PoE+

ATX/ATL Lens Mount Adapter

ADA-TFL2-F-ADJ TFL-II Mount to F-Mount Lens Adapter

ADA-TFL-F TFL-Mount to F-Mount Lens Adapter

ADA-TFL-C TFL-Mount to C-Mount Adapter

PHX Transform Kit

Model	Transform Type	Compatibility
PHX24-TK	90°, 180°	All 24 x 24mm PHX
PHX28-TK	90°, 180°	All 28 x 28mm PHX
FFC-15-JST-RJ45	FFC extension	All PHX FFC models
FFC-15-JST-M12	FFC extension	All PHX FFC models

PoE Injectors / Power Adapters

Model	Form Factor	Ports
MEAN WELL GST60A18-P1J	External	M8 GPIO Power Adapter
TP-Link TL-POE150S	External	1 GigE in 1 GigE PoE out
Procet PT-PSE104G-30-5	External	5 GigE in 5 GigE PoE out
Procet PT-PSE104GB-60-10	External	10 GigE in 10 GigE PoE out

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LUCID Vision Labs™, Inc. designs and manufactures innovative machine vision cameras and components that utilize the latest technologies to deliver exceptional value to customers. Our compact, high-performance GigE Vision cameras are suited for a wide range of industries such as factory automation, medical, life sciences and logistics. Our expertise combines deep industry experience with a passion for product quality, technology innovation and customer service excellence. LUCID Vision Labs, Inc. was founded in January 2017 and is located in Richmond, BC, Canada.



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