

THE INDUSTRIAL CAMERA EVOLVED



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**LUCID**  
VISION LABS



## 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<sup>TM</sup> Factory Tough Industrial Camera

## Triton Models



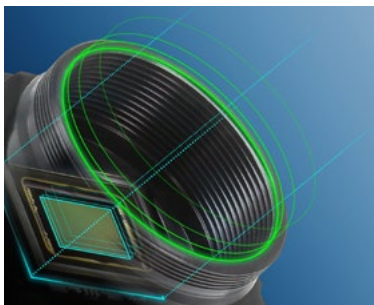
Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
TRI200S	20.0 MP	5472 x 3648 px	6 fps	Sony IMX183 CMOS	1"	2.40 µm	Rolling	C	M12
TRI120S	12.3 MP	4096 x 3000 px	10 fps	Sony IMX304 CMOS	1.1"	3.45 µm	Global	C	M12
TRI122S	12.2 MP	4024 x 3036 px	9.7 fps	Sony IMX226 CMOS	1/1.7"	1.85 µm	Rolling	C	M12
TRI089S	8.9 MP	4096 x 2160 px	13.7 fps	Sony IMX267 CMOS	1"	3.45 µm	Global	C	M12
TRI071S	7.1 MP	3208 x 2200 px	17.4 FPS	Sony IMX428 CMOS	1.1"	4.5 µm	Global	C	M12
TRI064S	6.3 MP	3072 x 2048 px	19.5 fps	Sony IMX178 CMOS	1/1.8"	2.40 µm	Rolling	C	M12
TRI054S	5.4 MP	2880 x 1860 px	21.5 fps	Sony IMX490 CMOS	1/1.55"	3.0 µm	Rolling	C	M12
TRI050S-P TRI050S-Q	5.0 MP	2448 x 2048 px	24 fps	Sony IMX250MZR CMOS Sony IMX250MYR CMOS	2/3"	3.45 µm	Global	C	M12
TRI050S	5.0 MP	2448 x 2048 px	24 fps	Sony IMX264 CMOS	2/3"	3.45 µm	Global	C	M12
TRI032S	3.2 MP	2048 x 1536 px	38 fps	Sony IMX265 CMOS	1/1.8"	3.45 µm	Global	C	M12
TRI028S	2.8 MP	1936 x 1464 px	43 fps	Sony IMX429 CMOS	2/3"	4.5 µm	Global	C	M12
TRI023S	2.3 MP	1920 x 1200 px	52 fps	Sony IMX392 CMOS	1/2.3"	3.45 µm	Global	C	M12
TRI016S	1.6 MP	1440 x 1080 px	77 fps	Sony IMX273 CMOS	1/2.9"	3.45 µm	Global	C	M12
TRI005S	0.5 MP	812 x 620 px	166.5 fps	Sony IMX433 CMOS	1/1.7"	9.0 µm	Global	C	M12
TRI004S	0.4 MP	728 x 544 px	291 fps	Sony IMX287 CMOS	1/2.9"	6.9 µm	Global	C	M12

## Line Scan

Model	Resolution	Line Rate	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
TRI02KA	2048 x 1 px	60 kHz	AMS Dragster DR-2k-7	14.3 mm	7.0 µm	Global	C	M12

For the latest Triton models and machine vision accessories, including IP67 lens tubes and M12 / M8 cables please visit [www.thinklucid.com](http://www.thinklucid.com)

## Highlights



### 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.



### IP67 Protection

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



### Beyond Small and Light

The camera has a wide operating temperature range from -20°C to 55°C ambient. At only 67 grams and 29 x 29 mm, the Triton is an easy and reliable fit in any environment.

# 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

## ATL Lens Mount 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

## 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	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
IOI GE10-PCIE4XG202P	PCI Express x4	1-10G/5G/2.5G/1 GigE PoE
ADLINK PCIe-GIE72	PCI Express x4	2 GigE PoE
ADLINK PCIe-GIE74	PCI Express x4	4 GigE PoE
Intel EXPI9301CTBLK	PCI Express xl	1 GigE

## PoE Injectors

Model	Form Factor	Ports
TP-Link TL-POE150S	External	1 GigE in 1 GigE PoE out
PHIHONG POE21U-1AF	External	1 GigE in 1 GigE PoE out

## Be Inspired. Think LUCID.

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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