Triton®10

LUCID VISION LABS

Compact 10GigE IP67 Camera with Remote Direct Memory Access (RDMA)

10GiGE+RDMA with Power over Ethernet

- 10GigE Performance Optimized with RDMA
- IP67 Dust and Water Protection
- 44 x 44 x 82mm size
- Active Sensor Alignment, PoE

Triton10 Models

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	Chroma	GigE Interface
TRX245S	24.5 MP	5320 x 4600 px	35.5 fps	Sony IMX530 CMOS	4/3"	2.74 µm	Global	C-mount	M/C	10GBASE-T, M12
TRX204S	20.4 MP	4510 x 4510 px	42.8 fps	Sony IMX531 CMOS	1.1"	2.74 µm	Global	C-mount	M/C	10GBASE-T, M12
TRX162S	16.2 MP	5320 x 3040 px	53.0 fps	Sony IMX532 CMOS	1.1"	2.74 µm	Global	C-mount	M/C	10GBASE-T, M12
TRX124S	12.3 MP	4096 x 3000 px	66.8 fps	Sony IMX535 CMOS	1/1.1"	2.74 µm	Global	C-mount	M/C	10GBASE-T, M12
TRX081S	8.1 MP	2840 x 2840 px	101.3 fps	Sony IMX536 CMOS	2/3"	2.74 µm	Global	C-mount	M/C	10GBASE-T, M12
TRX051S	5.0 MP	2448 x 2048 px	155.2 fps	Sony IMX537 CMOS	1/1.8"	2.74 µm	Global	C-mount	M/C	10GBASE-T, M12

*Preliminary Specifications

Interface, Power, and Size Information	
Digital Interface	10GBASE-T*, 5GBASE-T, 2.5GBASE-T, 1000BASE-T, 100BASE-TX M12, PoE (*10GBASE-T runs in short reach mode, 25m cable length max)
Transport Layer Protocol	UDP (GigE Vision), RDMA (RoCE v2)
GPIO Interface	17 pin M12 connector
Opto-isolated I/O ports	1 input, 3 output
Non-isolated I/O ports	2 bi-directional
Differential I/O ports	RS-422: 3 positive, 3 negative
Dimensions	44 x 44 x 82 mm
Lens Mount	C-mount
Weight	243 g
Power Requirement	PoE (IEEE 802.3af), or 12-24 VDC through GPIO
Power Consumption	<8.3W via PoE, <7.5W when powered externally

Standard and Certifications	
Standard	GigE Vision v3.0
Compliance	CE, FCC, RoHS, REACH, WEEE
Storage Temperature	-30°C to 60°C
Operating Temperature	-20°C to 55°C ambient
Humidity	Operating: 20% ~ 80%, relative, non-condensing
Warranty	3 year

Imaging Properties	
Image Buffer	880 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, YCbCr8, YCbCr411, YUV422, YUV411
Image Modes	Horizontal and vertical binning, decimation, ROI, horizontal and vertical flip
ADC	8, 10, 12 bit
Gain Range	0 dB to 48 dB analog and digital
Exposure Time	30 µs to 10 s (varies per model)

Camera Features	
User Sets	1 default and 2 custom user set
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	Exposure start/end
Counter & Timer	2 counters and 2 timers
Sequencer	Exposure time, gain
Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)

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This datasheet contains preliminary specifications and is subject to change.

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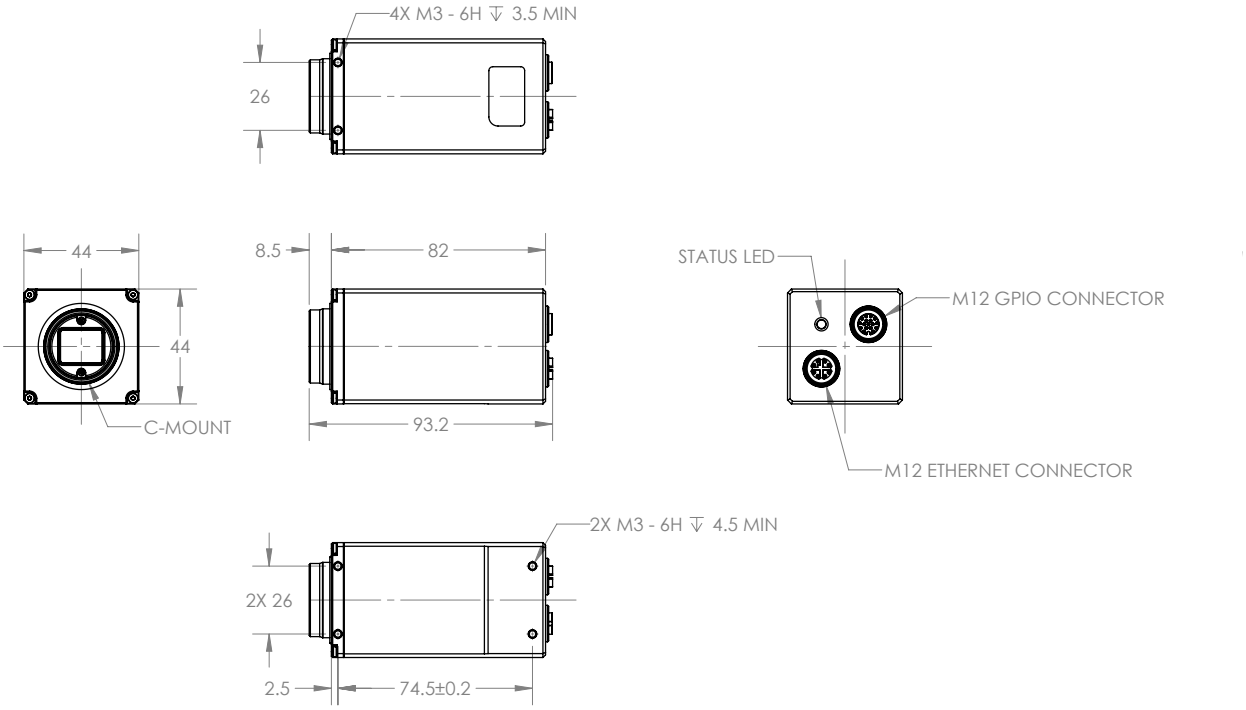

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