

Triton™ SWIR

Sony® SenSWIR™ IMX990 and IMX991 InGaAs Sensors

LUCID
VISION LABS



Triton SWIR Models

Model	Resolution	FPS	Sensor	Pixel Size	Shutter	Sensitivity Range	Lens Mount	GigE Interface
TRI003S-WC	0.3 MP 640 x 512 px	256 fps	Sony IMX991 CMOS	5.0 μm	Global	400 to 1700 nm	C-Mount	1GBASE-T, M12, PoE
TRI013S-WC	1.3 MP 1280 x 1024 px	84.9 fps	Sony IMX990 CMOS	5.0 μm	Global	400 to 1700 nm	C-Mount	1GBASE-T, M12, PoE

Specifications

Interface, Power, and Size Information		Imaging Properties	
Digital Interface	1000BASE-T, 100BASE-TX M12, PoE	Image Buffer	128 MB
GPIO Interface	8 pin M8 connector	Image Processing	Gain, gamma, black level, white balance, LUT, pixel correction, hue, saturation
Opto-isolated I/O ports	1 input, 1 output	Pixel Formats	Mono8/10/12/16
Non-isolated I/O ports	2 bi-directional	Image Modes	Decimation, ROI, horizontal and vertical flip
Dimensions	44 x 29 x 45.3 mm	ADC	8, 10, 12 bit
Lens Mount	C-Mount	Gain Range	0 dB to 42 dB analog and digital
Weight	90 g	Exposure Time	30 μs to 10 s
Power Requirement	PoE (IEEE 802.3af), or 12-24 VDC external	Camera Features	
Power Consumption	3.1W via PoE, 2.5W powered externally	Cooling Capability	None (User must manage camera temps)
Standard and Certifications		User Sets	1 default and 2 custom
Standard	GigE Vision v2.0	File system size	16 MB
Compliance	CE, FCC, RoHS, REACH, WEEE	Chunk Data	Timestamp, frame counter, offset X/Y, width/height, exposure time, gain, black level, line status, sequencer set
IP Rating	IP67	Event Data	Exposure start/end
Storage Temperature	-30 to 60°C	Counter & Timer	2 counters and 2 timers
Operating Temperature	-20 to 50°C Case Temperature	Sequencer	Exposure time, gain
Humidity	Operating: 20% ~ 80%, relative, non-condensing	Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)
Storage Humidity	20% ~ 95%, relative, non-condensing		
Warranty	3 years		

*Not including lens barrel or interface ports

LUCID
VISION LABS

sales@thinklucid.com
www.thinklucid.com

© 2023 LUCID Vision Labs, Incorporated. All rights reserved. Phoenix, Triton, Atlas, Helios, ArenaView and other names and marks appearing on the products herein are either registered trademarks or trademarks of LUCID Vision Labs, Inc. and/or its subsidiaries. Subject to change without notice. Ver 02/06/2023

Triton™ SWIR

Sony® SenSWIR™ IMX990 and IMX991 InGaAs Sensors

