Triton^T2 EVS Event-Based Camera Designed for Demanding Industrial Environments

- Event-based vison sensor
- >10k fps Time-Resolution Equivalent with 120dB dynamic range
- Fully tested against shock, vibration, water, dust, temperature, and EMI
- Lightweight, compact, IP67 upgradable









Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
TRT009S-EC	0.9 MP	1280 x 720 px	N/A	Sony IMX636 CMOS	1/2.5"	4.86 µm	N/A	С	2.5GigE M12
TRT003S-EC	0.3 MP	640 x 512 px	N/A	Sony IMX637 CMOS	1/4.5"	4.86 µm	N/A	С	2.5GigE M12



The IMX636 / IMX637 sensors were made possible through a collaboration between Sony and Prophesee, by combining Sony's CMOS image sensor technology with Prophesee's event-based method vision sensing technology.



PIXEL INTELLIGENCE

Bringing intelligence to the very edge

Inspired by the human retina, at the heart of Event-Based Vision sensors, each pixel embeds its own intelligence processing enabling them to activate themselves independently, triggering events.



LOW LIGHT

0.08 lx Low-Light Cutoff

Sometimes the darkest areas hold the clearest insights. Event-Based Vision enables you to see events where light almost does not exist, down to 0.08 lx.



SPEED

>10k fps Time-Resolution Equivalent

There is no framerate tradeoff anymore. Take full advantage of events over frames and reveal the invisible hidden in hyper fast and fleeting scene dynamics.

DATA EFFICIENCY

With each pixel only reporting when it

senses movement, Event-Based Vision

sensors generate on average 10 to

1000x less data than traditional

10 to 1000x less data

image-based ones.



DYNAMIC RANGE

>120dB Dynamic Range

Achieve high robustness even in extreme lighting conditions. With Event-Based Vision sensors you can now perfectly see details from pitch dark to blinding brightness in one same scene, at any speed.



3nW/event

The sensor's pixel independence and overall architecture enable new levels of power efficiency with just 3nW/event and 26mW at sensor level



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Specifications

Interface, Power, and Size Information				
Digital Interface	2.5GBASE-T / 1000GBASE-T, M12 (8-Pin X-Coded), PoE			
GPIO Interface	8-pin M8 connector IEC 61076-2-104			
Opto-isolated I/O ports	1 input, 1 output			
Non-isolated I/O ports	2 bi-directional			
Dimensions	44 x 29 x 45.3* mm			
Lens Mount	C-mount			
Weight	90 g			
Power Requirement	PoE (IEEE 802.3af), or 12-24 VDC external			
Power Consumption	5W via V_ext; ~4.5W via PoE			

*Not including lens barrel or interface ports

Standard and Certifications				
Standard	GigE Vision v2.0			
Compliance	CE, FCC, RoHS, REACH, WEEE			
Ingress Protection	IP67 (For IP67 protection Triton must be used with IP67 lens tube and cables)			
Storage Temperature	-30 to 60°C			
Operating Temperature	-20 to 55°C ambient			
Shock and Vibration	DIN EN 60068-2-27, DIN EN 60068-2-64 DIN EN 60068-2-6			
Humidity	Operating: 20% ~ 80%, relative, non-condensing			
Warranty	3 year			

EVS Properties					
Stream Data Format	EVT 3.0				
Adjustable Biases	Low pass filter cutoff, positive event threshold, negative event threshold, refractory period, high pass filter				
EVS-Related Features	ROI, digital event mask, external trigger function				
Event Signal Processing	Anti-flicker, event trail filter				
Software	Compatible with Arena™ SDK or Prophesee Metavision® SDK				

Camera Features					
User Sets	1 default and 2 custom user set				
File system size	16 MB				
Chunk Data	CRC				
Event Data	Acquisition start/end, line rise/fall, error				
Counter & Timer	2 counters and 2 timers				
Sequencer	Not supported				
Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)				

C-Mount Model





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