Event Based Vison Camera

EvC3A / EvC3A-TK1

CenturyArks Co., Ltd.

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*SilkyEv*Cam* *powered by PROPHESEE*

Less Data and High Speed for Edge Computing

30mm

Turn Key Pack. (Optional)

30mm

36mm

✱ Trademark Application Pending

◼ Gen3.1(VGA) PROPHESEE Event Based Vision Sensor

- Independently & Asynchronously pixels, Sensing only contrast changes
- Event-Based Vision technology performance vs. Frame-based camera
    Generating 10x to 1000x less data
    < 10mW(sensor) Enabling new levels of power efficiency   *< 2.5W camera total
    > 10,000fps   Achieving a higher equivalent temporal resolution
- Wide Dynamic Range (up to 120dB)
- METAVISION™ Intelligence* : SDK of edge processing including AI.

* support by PROPHESEE

◼ Small Cube Event Based Camera with USB Type-C™ interface

- Small size 30mm x 30mm x 36mm and light weight, easy to install anywhere.
- USB3.0 Type-C™ interface, IX connector synchronous signal interface
- Turn Key Pack. Get data output after simple setup
   *SilkyEvCam, USB Type-C™ cable(1.2m), Lens, Mini tripod, Hardcase

*SilkyEv*Cam　Specifications

Event Based Vision sensor	Model	PPS3MVCD (PROPHESEE)	
	Image size	Type 3/4 " (Diagonal 12mm)	
	Module effective pixels	VGA (640 (H) x 480 (V))	
	Pixel size	15um x 15um	
	Typical Latency	200us	
	Maximum readout throughput	50Mevents/s	
Output	Interface (event data & control)	USB 3.0 (USB Type-C™ connector)	
	Interface (Sync/Trigger)	IX Series Connector (IX80G-B-10P : HIROSE) (Plug: IX30G-B-10S-CV(7.0) | IX31G-B-10S-CV(7.0))	
Camera	Power supply	USB Power (VBUS)	5.0 V
	Lens Mount type	C/CS Mount	
	Wide Dynamic Range	>120dB	
	Operating temperature	T operation	0 ∼ + 50 ℃
	Storage temperature	T storage	- 30 ∼ + 80 ℃
	Current consumption	500mA(max) , 200∼300mA(Ave.)	
	Dimensions / Weight (w/o Lens)	30mm (W) x 30mm (H) x 36mm (D) / 40g	
	Accessories	USB3.0 Type-C™ Cable 1.2m (w/ rock screw)	
	Raw Formats	EVT3	
Standard Lens	Model	M0814-MP2 (computar)	
	Focal length	8mm	
	F value	F1.4 – F16C	
	Angle of view	70deg	
	Focus range	100mm to infinity	
	Size / Weight	Φ33.5mm x 28.2mm / 62.6g	
Others	Turn Key Pack	Standard Lens / Mini tripod / Hardcase	
	SDK support by PROPHESEE	METAVISION™ Intelligence	

Solution example [High Speed Counting]

>10 m/sec | More than 99.5% accuracy | Mobile CPU

COUNTER : 3707

Above 1,000 objects/sec | 10,000 fps equivalent temporal precision | Industry lowest cost per count

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METAVISION FOR MACHINES