



Pro  
Model

Event-based  
vision camera

# SilkyEvCam HD

**SilkyEvCam HD** is an industrial-grade event-based vision camera with Sony's IMX636 event-based vision sensor which is realized in collaboration between Sony and PROPHESSEE. It delivers HD resolution while maintaining the same dimensions as previous VGA models. Built on a completely different concept than conventional frame-based cameras, SilkyEvCam HD reveals an unprecedented event-based world.

1  $\mu$ sec

>120dB

1/10~1/1000

1280 x 720

Min temporal resolution

Dynamic range

Data volume compared  
to frame-based camera

Resolution

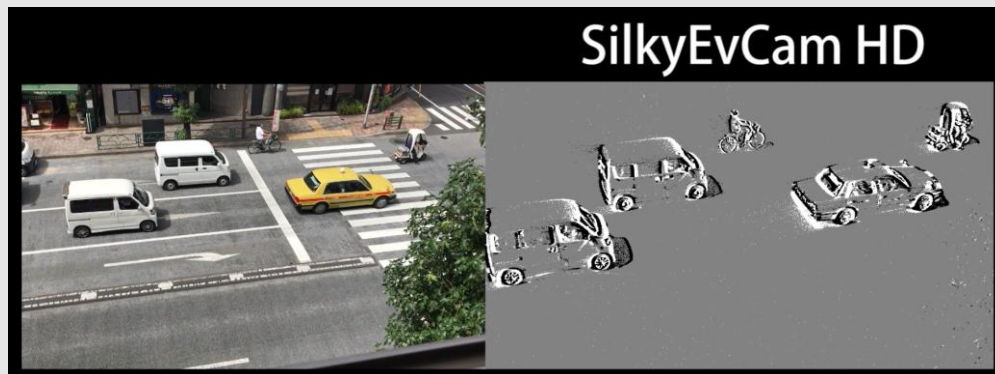
An event-based vision sensor is designed to emulate how the human eye senses light. The sensor detects the luminance changes in each pixel and extracts only those that exceed the preset threshold value then outputs the event "coordinate, polarity, and time". This operation is performed independently and asynchronously for each pixel.

# Differences from conventional cameras

While conventional cameras output information for the entire screen according to a fixed frame rate, event-based vision cameras output asynchronously data only for pixels that have undergone a change in brightness or darkness. Therefore, it does not output motionless (no luminance change) roads, buildings, or stationary cars, and can reliably capture only moving objects.

Conventional camera ▾

Event-based vision cameras ▾



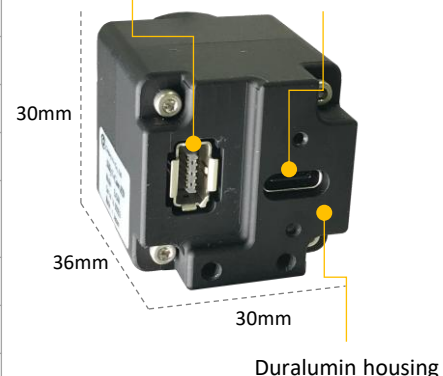
Check the video here!

## SilkyEvCam HD

Event-based vision sensor	Model	IMX636 (Sony)
	Image size	Type 1/2.5" (Diagonal 7.14mm)
	Resolution	HD (1280(H) x 720(V))
	Pixel size	4.86μm x 4.86μm
	Typical Latency	100μs or under @ 1k lux
	Readout throughput	20Mevents/s (default, setting changeable)
Output	Interface	USB 3.0 (USB Type-C™ connector)
		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) 5V
	Lens mount type	C/CS Mount
	Dynamic range	> 120dB (DR > 120 dB can be reached based on low light cutoff measurement being: 0.08 lux (imaging characteristics not guaranteed).)
	Operating temperature	0 ~ + 50 °C
	Storage temperature	- 30 ~ + 80 °C
	Current consumption	300mA (max) / 100mA (Ave.)
	Dimensions / Weight	30mm (W) x 30mm (H) x 36mm (D) / 42g
	Raw formats	EVT3

IX Series Connector  
SYNC\_I/O TRIG\_IN

USB Type-C™ connector  
with lock screw



### BUILT TO ENDURE

Change of temperature: IEC 60068-2-14

Damp heat, steady state: IEC 60068-2-78

Rough handling shocks: IEC 60068-2-31

Electrostatic discharge immunity test:

IEC 61000-4-2

### Software toolkit

"Metavision® SDK5 PRO", a paid software toolkit provided by PROPHESSEE can be used for this product. It includes the fundamental libraries for handling data from event-based vision cameras, various algorithms, practical sample programs, the source code for all modules and a commercial-grade license.



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