

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 PROPHESEE. 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 μsec	>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 ∇

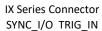






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SilkyEvCam HD				
Event- based vision sensor	Model	IMX636 (Sony)		
	Image size	Type 1/2.5" (Diagonal 7.14mm)		
	Resolution	HD (1280(H) x 720(V))		
	Pixel size	4.86μm x 4.86μm		
	Typical Latency	100μs or under @ 1k lux		
	Readout throughput	20Mevents/s (default, setting changeable)		
Output		USB 3.0 (USB Type-C [™] connector)		
	Interface	IX Series Connector (IX80G-B-10P : HIROSE) (Plug: IX30G-B-10S-CV(7.0) IX31G-B-10S-CV(7.0))		
	Power supply	USB Power (VBUS) 5V		
	Lens mount type	C/CS Mount		
Camera	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	$0\sim$ + 50 $^{\circ}$ 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		





Duralumin housing

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

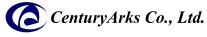
Software toolkit

All SilkyEvCam products can use the "Metavison™ Intelligence Suite", a software toolkit provided free of charge by PROPHESEE. It supports everything from first-time image output and prototype evaluation to full-scale application development. The "Metavison™ Intelligence Suite" provides basic libraries, algorithms, and practical sample programs for handling with event-based vision camera data.

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