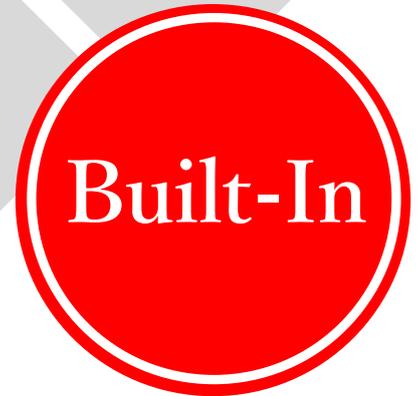




Application Areas

Surveillance Camera
Drone
Robotics
AGV
Satellite



Modular
Event Camera

Event-based vision
Camera module
SilkyEvCam[®] series

HD Module

This camera module is equipped with the same IMX636 sensor used in the professional-grade SilkyEvCam[®] HD. Compared with the earlier SilkyEvCam[®] GenX320 4x5 module, it delivers higher resolution and a wider field of view. It also has the features of high-speed sensing and wide dynamic range, low data volume, low latency and low power consumption.

With the addition of this model to the SilkyEvCam[®] series, event-based vision is now expanding into even more applications, including privacy-conscious surveillance cameras, drones for disaster and hazardous- areas operations, robotics, AGVs and compact satellite systems.

1 μ sec

>120dB

MIPI (2Lane)

1280 x 720

Min temporal resolution

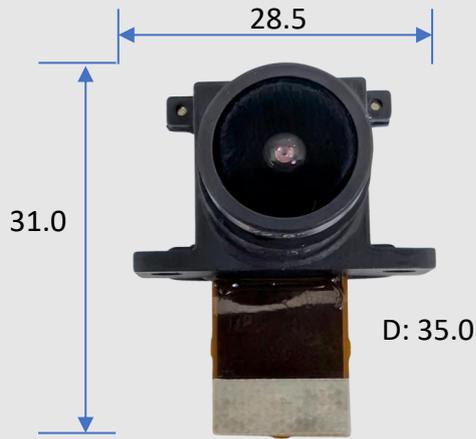
Dynamic range

Interface

Resolution

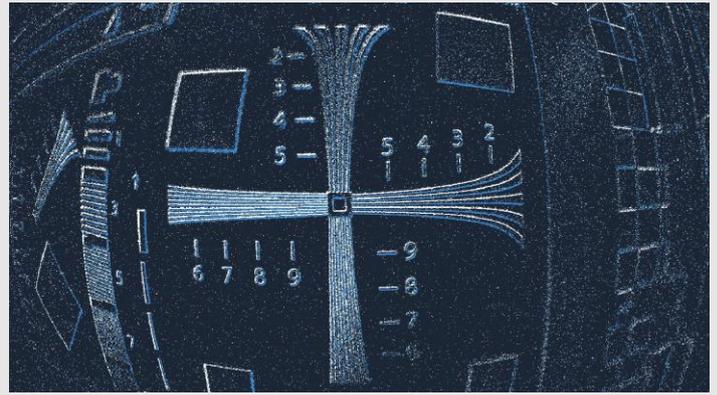
An event-based vision sensor is designed to emulate how the human eye senses light. The sensor detects the luminance changes in each pixel and extracts only those that exceed the preset threshold value then outputs the event "coordinate, polarity, and time". This operation is performed independently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

The module size is minimized with Flip Chip mounting technology. We offer customization for embedded lenses and flexible lengths to meet customers' needs.



(Unit : mm)

Shooting a chart displayed on the LCD



Areas that changed brightly are displayed in white, and areas that changed darkly are displayed in blue.

SilkyEvCam® HD Module

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 and under @ 1k lux
Output	Interface	MIPI (2Lane) BtoB Connector (DF40GB-30DP-0.4V(51): HIROSE)
	Power supply	3.3V IN
Camera	Dynamic range	>120dB
	Operating temperature	0 ~ +50 °C
	Storage temperature	-30 ~ +80 °C
	Power consumption	250mA (max) / 80mA (Ave.)
	Dimensions/Weight	28.5(W) x 31.0(H) x 35.0(D) mm / 12g
	Raw formats	EVT3.0
	Lens	Focal length
Aperture		F2.0
Image circle		14mm
FOV (D)		156deg



Event-based vision camera
SilkyEvCam®



For the details of
SilkyEvCam® HD Module



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