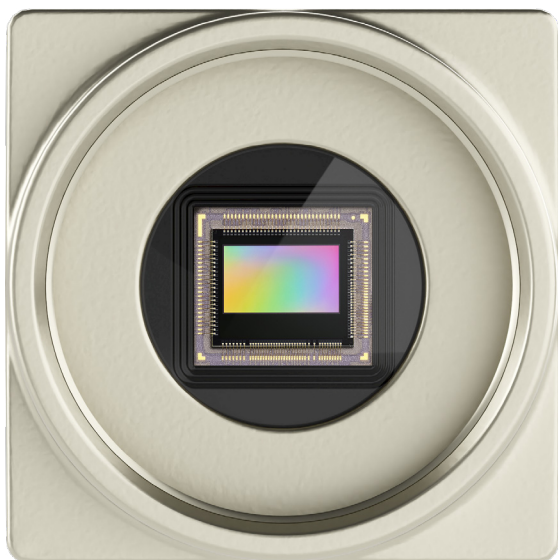


ADVANCE YOUR EVENT-BASED VISION APPLICATIONS WITH PROPHESEE EMBRA™ HD USB, AN EXPLORATION KIT FEATURING A COMPACT, ROBUST DEVELOPMENT CAMERA BUILT FOR REAL-WORLD ENVIRONMENTS. DESIGNED FOR SEAMLESS INTEGRATION, RAPID PROTOTYPING, VALIDATION AND PROGRESSION TOWARD PRODUCTION DEPLOYMENT.



EMBRA™ HD USB



CHARACTERISTICS

Resolution (px)	1280 x 720
Latency (µs)	1000 µs @ 5 lux 100 µs @ 1000 lux
Dynamic Range (dB)	86 db (5 lux - 10000 lux) 120 db (0.080 lux - 100000 lux)
Nominal contrast treshold (%)	25
Pixel size (µm)	4.86 x 4.86
Camera power (w)	0.6 - 3.4
Conformity	CE, FCC, ChinaRoHS EFUP 25, UKCA
Interface (data output)	USB 3.0 (Micro-B, screwable)

OVERVIEW

- Integrates [IMX636](#) stacked Event-based Vision Sensor, with 1280(H)x720(V) resolution and sub-millisecond latency, realized in collaboration between Sony and Prophesee
 - Event-based development camera with C-mount lens mount
 - Die-cast nickel-plated zinc camera body (IP30 rated)
 - Ultra-compact and light: 29x29x17mm, weighing just 61g
 - CE, FCC, ChinaRoHS EFUP 25, UKCA certified
 - Easy to embed: 4x M3 bottom fixing points
 - USB 3.0 interface provides bus power and host data transfer
 - Provided with: 1x C-mount 1/2" lens + 1x tripod + 1x USB-C to USB-A cable
-
- Available as a standalone camera or with one-seat development access to Metavision® SDK5 PRO
 - The SDK5 PRO option includes free access to Hearth® when available, and Knowledge Center access (Technical app notes, Advanced hardware manuals, Personal ticketing tool, Community Forum and more).

PROPHESSEE - EMBRA HD USB

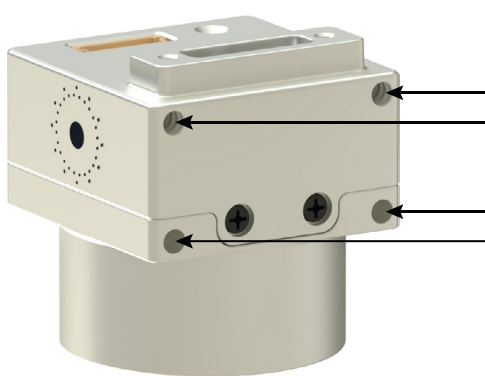
PIN ASSIGNMENT I/O CONNECTOR

1	Voltage output 1.8 V, max. 50 mA
2	Ground (GND)
3	TDRSTN (sensor), 1.8 V
4	Trigger input (sensor), 1.8 V

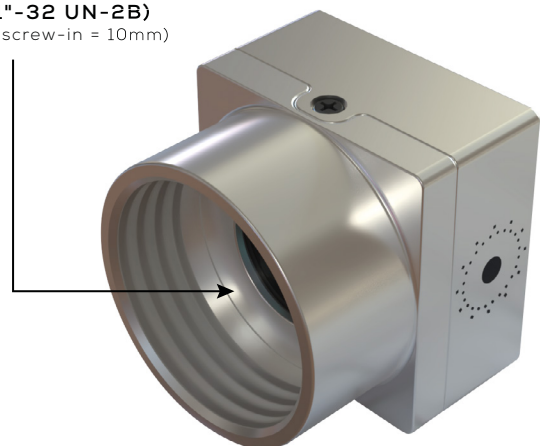
5	SYNC (sensor), 1.8 V
6	-
7	Ground (GND)
8	USB Power: 5 V, max. 400 mA



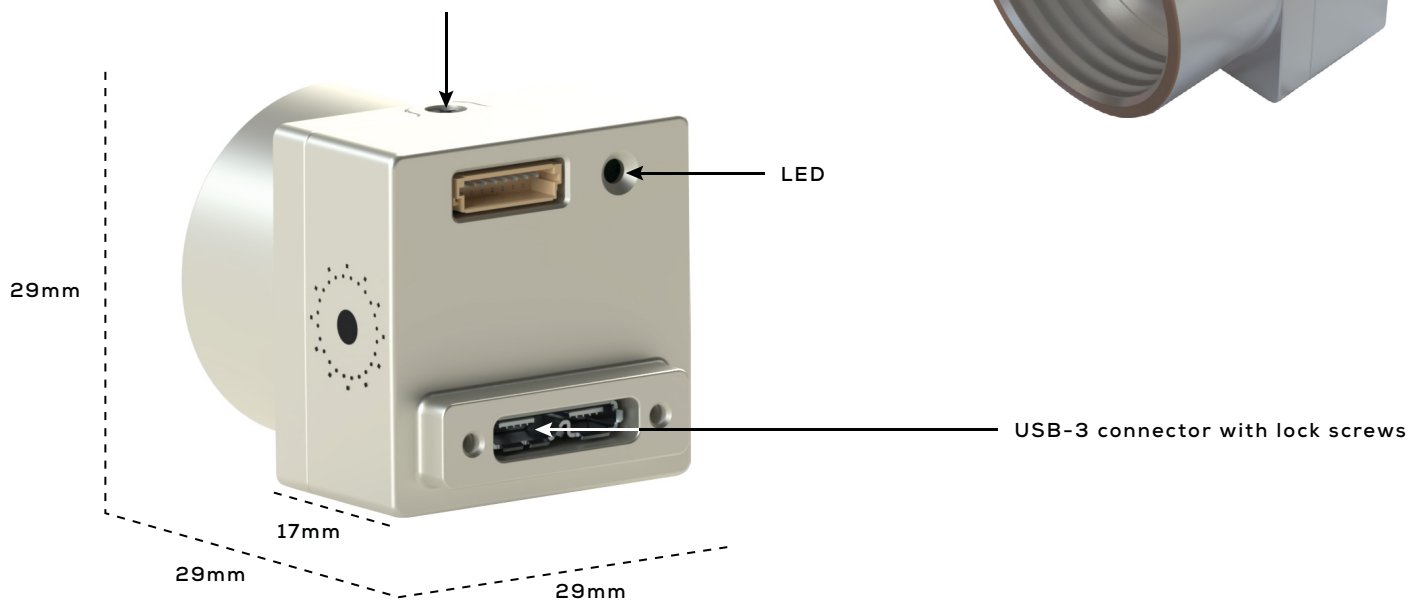
4x Camera fixing screw (M3)
Max. depth of screw-in = 3mm
Max. Tightening torque = 1Nm / 8.85inlbf)



C-mount (1"-32 UN-2B)
(max. depth of screw-in = 10mm)



8 PIN I/O wire to board



ORDERING CODES

PEMBRAI36HDCDMPSTAL: EMBRA HD-CD STAND ALONE

PMETSDKEMBRADVT: METAVISION® SDK EMBRA - DEVELOPMENT

REQUEST MORE INFORMATION OR QUOTE: <https://www.prophesee.ai/embra-info/>