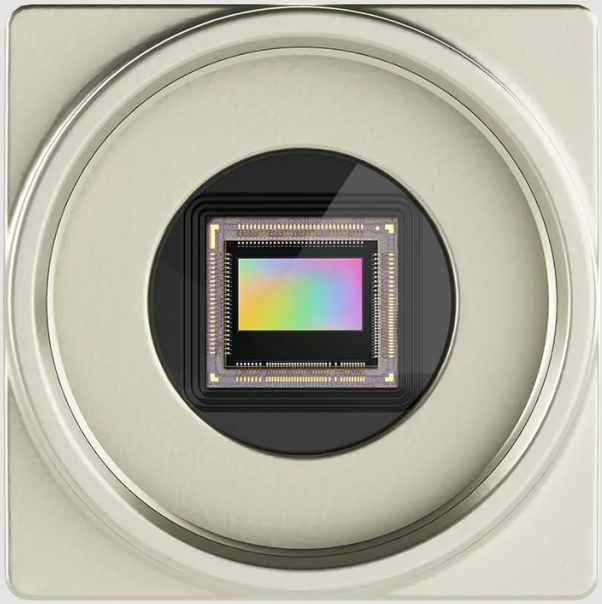
**Advance your Event-based Vision applications with PROPHESEE EMBRA™ HD USB, an exploration kit featuring a compact, robust, industrial-grade camera built for real-world environments. Designed for seamless integration, rapid prototyping, validation and progression toward production deployment.**

PROPHESEE

# EMBRA™ HD USB



## CHARACTERISTICS

| | |
|---|---|
| **Sensor** | IMX636 |
| **Resolution (px)** | 1280 x 720 |
| **Latency (µs)** | 1000 µs @ 5 lux<br>100 µs @ 1000 lux |
| **Dynamic Range (dB)** | 86 db (5 lux - 100000 lux)<br>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 industrial-grade 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
- USB 3.0 interface provides bus power and host data transfer
- Provided with: 1x C-mount 1/2" lens, 6mm, f/2-f/16 + 1x tripod + 1x USB Micro-B to USB-A cable + 1x I/O cable

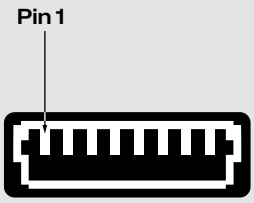
---

- 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).

## 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 |

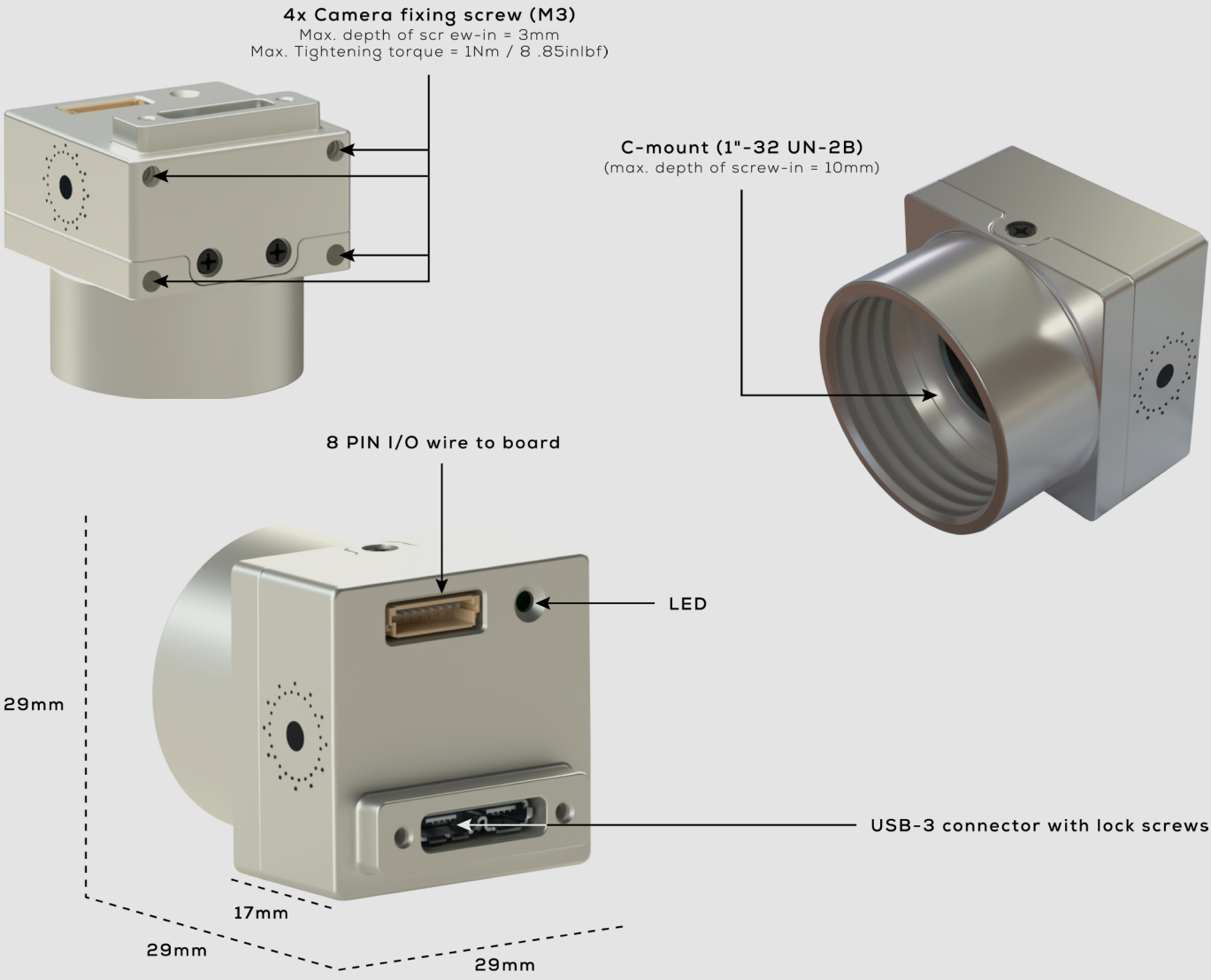
| | |
|---|---|
| **5** | SYNC (sensor), 1.8 V |
| **6** | - |
| **7** | Ground (GND) |
| **8** | USB Power: 5 V, max. 400 mA |




## AMBIENT CONDITIONS

| | |
|---|---|
| **Allowed device temerature during operation** | 0 °C ... 55 °C<br>32 °F ... 131 °F |
| **Allowed ambient temperature during operation** | 0 °C ... 40 °C<br>32 °F ... 104 °F |

| | |
|---|---|
| **Allowed ambient temperature during storage** | -20 °C ... 60 °C<br>-4 °F ... 140 °F |
| **Humidity** | 20 % ... 80 %, relative, non-condensing |




## ORDERING CODES

**PEMBRAI36HDCDMPSTAL: EMBRA HD-CD CAMERA ONLY**
**PMETSDKEMBRADVT: METAVISION® SDK - DEVELOPMENT LICENSE**
**REQUEST MORE INFORMATION OR QUOTE:** https://www.prophesee.ai/embra-event-camera/