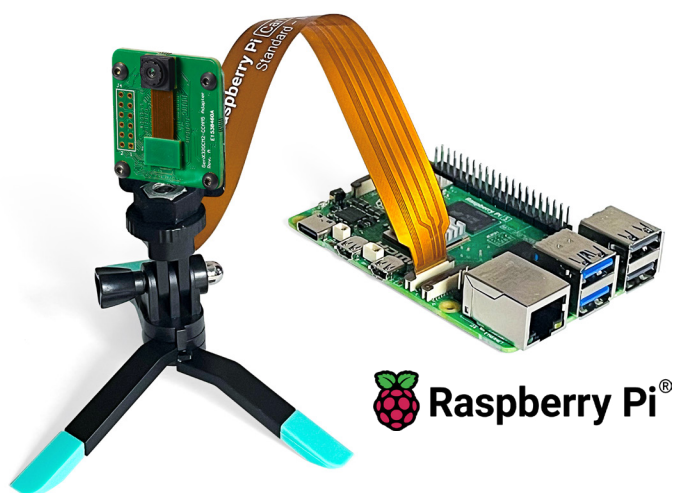


HIGH-PERFORMANCE EVENT-BASED VISION STARTER KIT FOR RASPBERRY Pi 5



# STARTER KIT GENX320 FOR RASPBERRY Pi 5



*\* Raspberry Pi 5 board needs to be purchased separately.*

| SENSOR            |                           |
|-------------------|---------------------------|
| Sensor            | Prophesee GENX320         |
| Resolution        | 320 x 320 px              |
| Event Rate        | ~10,000 fps equivalent    |
| Latency           | <150 $\mu$ s at 1,000 lux |
| Dynamic Range     | >140 dB                   |
| Power Consumption | <50 mW (sensor only)      |
| Interface         | MIPI CSI-2 (D-PHY)        |

| CAMERA                   |        |
|--------------------------|--------|
| Lens Mount               | M6     |
| Focal Length             | 1.11mm |
| Diagonal field of view   | 104°   |
| Horizontal field of view | 84°    |
| Vertical field of view   | 84°    |
| Aperture                 | f/2.4  |
| IR Filter                | No     |

## FEATURES

- M6 Mount, FOV 104° lens
- Complete event-based camera board with lens
- 20 cm flex cable MIPI Raspberry Pi compatible output
- 3D-printed camera module cover
- Raspberry Pi 5: sold separately at: [raspberrypi.com](https://www.raspberrypi.com)

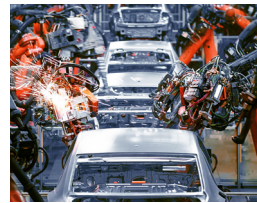
## SOFTWARE

- V4L2 Driver
- Open EB: C++/ Python APIs <https://github.com/prophesee-ai/openeb>
  - Data recording, replay and visualization
  - Sensor settings (biases), ROI, ERC

# PROPHESSEE STARTER KIT - GENX320 - M6 MOUNT - RASPBERRY Pi 5

## APPLICATIONS

This kit enables untethered, high-speed, low-latency event data collection on embedded platforms, serving as the foundation for developing advanced event-based applications:



### DRONES:

- Detection and tracking
- Obstacle avoidance
- Real-time SLAM
- GPS-denied navigation

### INDUSTRIAL & IoT:

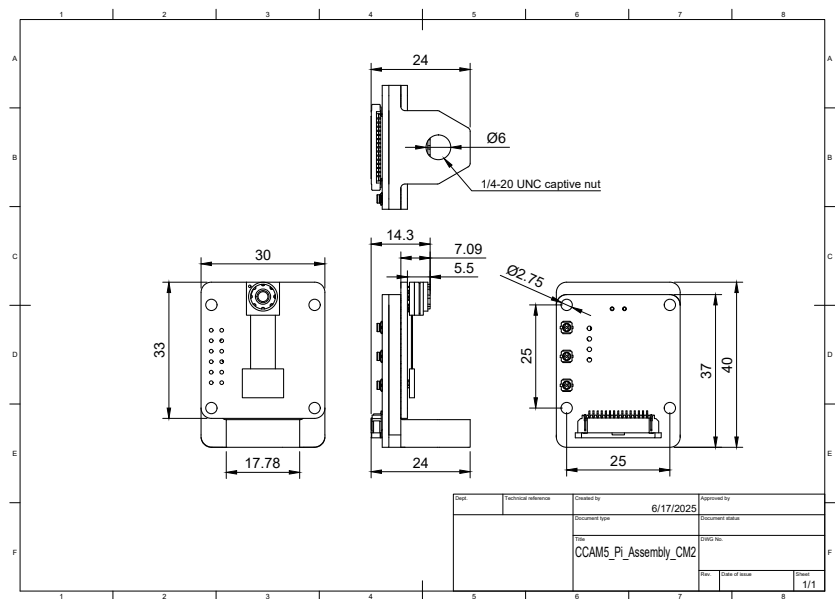
- Vibration monitoring
- Spatter tracking
- High speed defect detection

### SURVEILLANCE:

- Fall Detection
- Intrusion Monitoring

...and many others.

## PHYSICAL SPECIFICATIONS



## DESCRIPTION

The STARTER KIT GENX320 for Raspberry Pi 5 is a compact and powerful embedded vision development platform designed to unleash the capabilities of event-based sensing on the Raspberry Pi 5. Built around Prophesee's GENX320, the world's smallest and most power-efficient event-based vision sensor, this kit enables the development of real-time, ultra-low latency applications for robotics, drones, industrial automation, and more. It provides a streamlined path to rapidly develop, test, and prototype custom applications, making it an ideal solution for engineers and researchers looking to harness the benefits of neuromorphic vision.

## RASPBERRY Pi 5: HOST PLATFORM REQUIREMENT

Recommended accessories for best performance:

**RASPBERRY Pi 5 8GB/16GB - SC1432/SC1113:** <https://www.raspberrypi.com/products/raspberry-pi-5>

**ACTIVE COOLER - SC1148:** <https://www.raspberrypi.com/products/active-cooler/>

**27W POWER SUPPLY - SC1153:** <https://www.raspberrypi.com/products/27w-power-supply/>

**SSD KIT - SC1675:** <https://www.raspberrypi.com/products/ssd-kit/>

## ORDERING CODES

**PSKX320MPCM2RPI5 - STARTER KIT - GENX320MP-CM2 RPI 5**

<https://www.prophesee.ai/event-based-starter-kit-genx320-raspberry-pi-5/>

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