



# epc670

## High speed TOF sensor Starter kit

The epc670 Starter Kit is a compact and ready-to-use 3D time-of-flight evaluation platform designed to accelerate development with the epc670 imaging chip. It combines the epc670 sensor with a preconfigured Raspberry Pi 5, an intuitive graphical user interface, and a robust enclosure, providing immediate access to all standard Raspberry Pi interfaces. The kit enables rapid evaluation of sensor performance, prototyping of depth-based applications, and development and testing of custom software features. With its plug-and-play setup and comprehensive hardware integration, the epc670 starter Kit significantly reduces development effort and time-to-insight for engineers and system developers.

### FEATURES

- ✓ Ready to use evaluation system
- ✓ High TOF frame rate (175 images per second)
- ✓ Sensitivity of 8e-/LSB
- ✓ Ambient light 100 klux
- ✓ Eye safety
- ✓ Raspberry standard interfaces

### APPLICATIONS

Access Systems



Mobile Robotics



Activity Monitoring



3D Scanning



Motion Tracking



Traffic Monitoring



## KEY PARAMETERS

	<b>epc670 image sensor</b>
Resolution	320 x 240 pixel
Sampling rate	700 fps
Frame rate	175 TOF fps
Sensitivity	8 e-/LSB
Ambient light	0 - 100kLux
Interface	I2C, MIPI (CSI-2)

	<b>Starter kit</b>
Field of view	108° x 77°
Illumination	LED 1: 150°, LED 2: 80° @940nm
Host controller	Raspberry Pi 5
Dimensions	92 x 64 x 52 mm
Mounting option	¼ inch tripod mount
Supply voltage	USB C, 27 W

## STARTER KIT CONTENT

### Hardware

- Raspberry Pi 5
- Raspberry Pi OS Debian
- epc670 sensor
- LED illumination

### Software

- HAL and Linux device drivers
- TOF processing pipeline
- GUI in Python source code
- Video for Linux API v4l2



## ORDER INFORMATION

epc670 High speed TOF sensor Starter Kit	P 101 151
Power Supply Plug, USB-C, 27W, EU	P 101 157
Power Supply Plug, USB-C, 27W, US	P 101 162
Camera Tripod, ¼ Inch, 10 ... 27 cm height	P 100 283
Cable HDMI (A/M) - micro HDMI; 2m, black	P 101 185

## CONTACT INFORMATION

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