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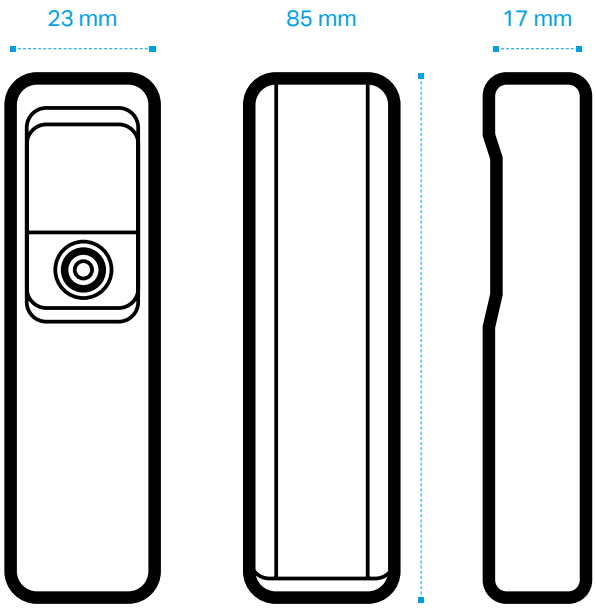
flexx2 wide Development Kit

The pmd 3D Sensing Family gives you the flexibility to easily add 3D vision to your product. It works out of the box and has all the tools and software you`ll need to start.

Get ready to take your projects to the next level with the Depth Sensing Kit flexx2 Wide. Featuring our state-of-the-art 3D ToF sensor, with 43k 3D pixel resolution and a wider field of view measuring 106° x 86°. Delivering unparalleled depth data of a wider scenery, like never before. With flexible working ranges, adjustable framerates, and reduced depth noise, the flexx2 wide is the perfect tool for developers who demand top-class depth data.

Features:

- pmd patented 3D Time-of-Flight Technology
- up to 2.6M 3D points per second
- 10m measurement range with incredible data quality
- Including powerful software suite



You can contact us at any time via

or visit 3d.pmdtec.com

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Encased, CE Certified, Laser Safety Certificate

Camera Data

ToF-Sensor	IRS2975C Infineon® REAL3™ 3D Image Sensor IC based on pmd technology
Resolution	240 x 180 pixels (43k)
Measurement range	0.1 – 10 m
Depth resolution	< 1% of distance at 7m, all operation modes
Viewing angle (H x V)	106° x 86°
Illumination	940 nm, VCSEL, Laser Class 1
Sunlight Tolerance	At 100K Lumens (Full Sunlight), loses ~50% max range vs. Indoors
Framerate	Up to 60fps (3D frames); 9 pre-defined operation modes
Power consumption	USB 3.X compliant, min. 300mW, 1900mW
Interface	USB Type C (data & power)
Data Output	3D point Cloud and IR image
Operating temperature	0-70 degrees Celsius

Software Development Kit

Software	Royale SDK (C++ based, supports Matlab, Python, OpenCV, ROS 1/2)
Operating System	Windows 10/11, Android, Linux/ARM, macOS*

Dimension

Size	85 x 23 x 17 mm
Weight	26g camera only without accesories

Conformity

CE	DIN EN61326-1:2013
RoHS	DIN EN63000:2018
Eyesafe	IEC60825-1:2014 Laserclass 1

*32Bit tested on Raspbian GNU/Linux 10 (Buster) Raspberry Pi 3 reference 2020-08-20 64Bit tested on Odroid C2 with Ubuntu Mate 16.04 ARM 64, macOS tested with Apple Silicon