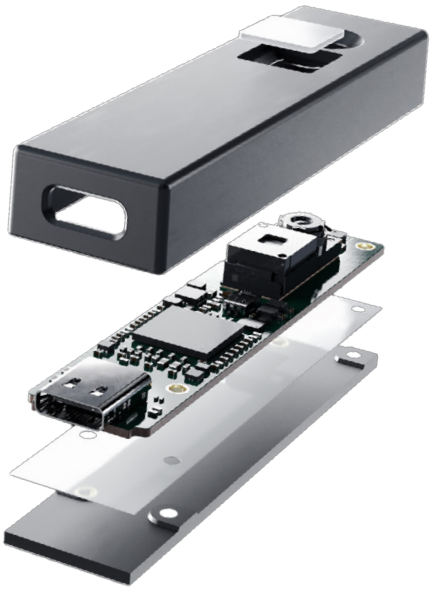
pmd
IMAGINE YOU CAN

flexx2
Development Kit

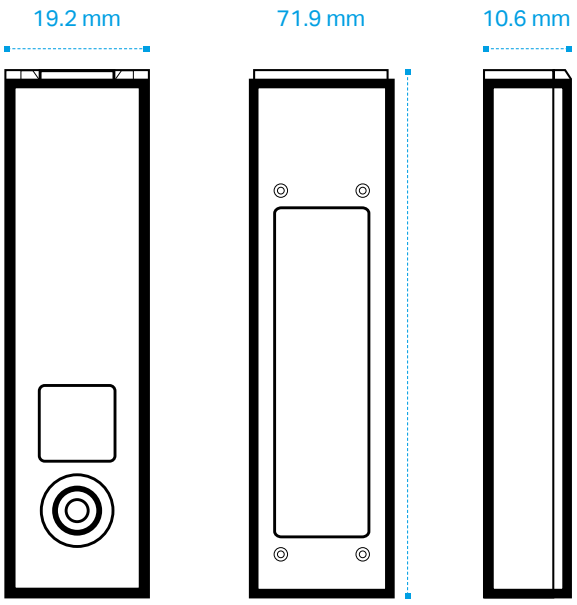
The pmd 3D Sensing Family gives you the flexibility to easily add 3D vision to your product. It works out of the box and has all the tools and software you`ll need to start.

Countless exciting and industry-changing projects are built upon the flexibility and reliability of these 3D Development Kits and make use of the high-quality depth data from Infineon's IRS2381C REAL3™ Time-of-Flight Image Sensor. The flexx2 comes with a special software development kit (SDK) "Royale", and will be code compatible with the previous pico flexx. Royale supports popular programming extensions including Matlab, OpenCV, and ROS 1+2.



Features:

- pmd patented 3D Time-of-Flight Technology
- up to 2.4 Mio. 3D points per second
- 4 m 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	IRS2381C Infineon® REAL3™ 3D Image Sensor IC based on pmd ToF Technology
Resolution	HQVGA 224 x 172 pixels (38k)
Measurement Range	0.1 – 4 m
Depth Resolution	<= 1% of Distance, all Operation Modes
Viewing Angle (H x V)	56° x 44°
Illumination	940 nm, VCSEL, Laser Class 1
Sunlight Tolerance	At 100K Lumens (Full Sunlight), loses ~10% max Range vs. Indoors
Framerate	Up to 60fps (3D Frames), 9 pre-defined Modes
Power Consumption	570mW – 680mW, USB 3.0 compliant
Interface	USB 3.0 (Data & Power)
Data Output	3D PointCloud and IR Image
Operating Temperature	0-70 Degrees Celsius

Software Development Kit

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

Dimensions

Size	71.9 x 19.2 x 10.6 mm
Weight	13g (Camera only, without Accesories)

Conformity

CE	DIN EN61326-1:2013
RoHS	DIN EN63000:2018
Eyesafety	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