

Sentis^{ToF} - P100

Time-of-Flight Depth Sensor



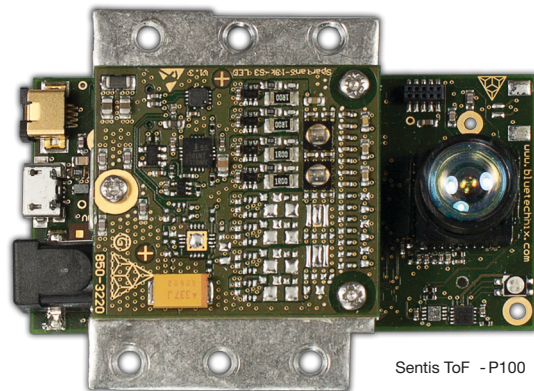
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Embedding Ideas

The electronics of an Argos 3D – P100 is also available without a housing: Sentis ToF – P100.

Sentis ToF – P100 is based on PMD Photonics® 19k-S3 Time of Flight IC. This sensor provides a resolution of 160 x 120 pixels and works thanks to a high performance CPU with up to 160 Frames per Second (FPS).

This smart depth sensor delivers depth- and amplitude information for each of the 160 x 120 pixels simultaneously. A 3D point cloud is provided by Ethernet or through serial busses. With a range of 3m, a field of view of 90° and a size of only 26 x 69 x 29 mm, this depth sensor is ideal for integration into your system.

This depth sensor can be ordered with a housing and optionally with, or without equipment.



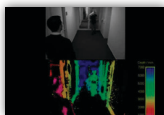
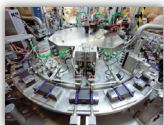
Sentis ToF - P100

pmd
intelligence

Highlights

- » 3D Depth Sensor
- » Real-time distance and grayscale information
- » 160 x 120 pixel
- » Up to 160 fps*
- » USB 2.0
- » Active IR illumination 850nm
- » Field-of-View 90°

Application Areas



- » Robotics & Industry
- » Medical
- » Security & Surveillance
- » R&D
- » Universities



Sentis ToF - P100 3D Point Cloud

Sentis^{ToF} - P100

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Feature Overview

Technology	PMD ToF
Pixel	160 x 120
FPS	up to 160*
Range	10 cm (min) - 300 cm
Power Supply	5V _{DC} @ 2.6A
USB 2.0	1 x Device
Sync Interface	1 x for ext. Illumination Units
Temperature Range	Commercial 0 to +70 °C
Supported OS	Windows XP/7 (32/64bit) Linux
Tripod Mount	1 x 1/4"
Dimensions	36 x 69 x 20 mm

*160fps @ 100µs integration time and 25°C ambient temperature

Software & Development

A powerful SDK is available for your Sentis^{ToF} - P100. This SDK enables direct access to the sensor.

- » **Windows XP/7 (32/64bit)**
- » **Ubuntu (32/64Bit)**

Drivers for

- » **MATLAB®** (www.mathworks.com)
- » **LabVIEW** (www.ni.com)

Natively supported by the following Frameworks

- » **MetriCam** (www.metricam.net)
- » **ADAF** (www.nisys.de)

Further questions?

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Eval Kit



- » **Argos^{3D} - P100**
- » **Support CD with SDK**
- » **Tripod & Cables**
- » **Power Adapter**
- » **Documentation**

Ordering Information

Order No.	Info
150-3020-1	Sentis ^{ToF} - P100 Bare sensor
150-2001-1	Argos ^{3D} - P100 Eval Kit with Housing

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