

Argos^{3D} - P320

2D and 3D Depth Sensor

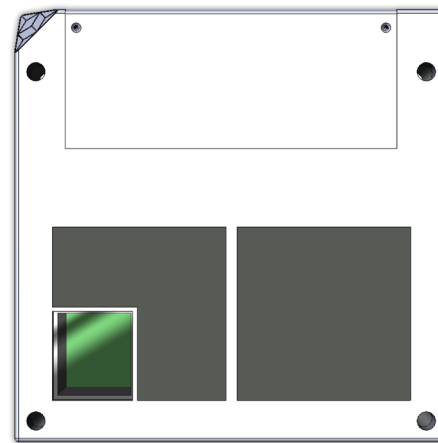


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The Argos^{3D} - P320 is a new depth sensor, operating on the Time-of-Flight (ToF) principle. The P320 is equipped with a PMD PhotonICs® 19k-S3 Time-of-Flight 3D IC and a high resolution 2D CMOS sensor.

The smart depth sensor IC delivers depth information and gray value image data for each pixel simultaneously. An integrated 2D CMOS imager captures scenes with a resolution of up to 1080p. Therefore, it's possible to analyze scenes based on 3D depth data only or in combination with 2D data.

Using active IR illumination, the sensor is able to capture 3D and 2D information. With a range of 10 m indoors, a field of view of 90° and a size of only 200 x 200 x 62 mm, this Gigabit Ethernet connected sensor can be used for next generation sensor systems in various application fields like robotics, automation and people counting.



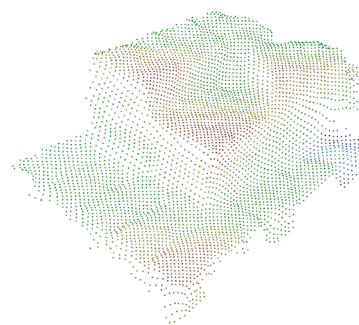
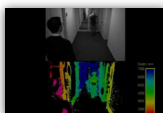
Argos^{3D} - P320

- » 3D depth sensor (160 x 120 pixel)
- » 2D CMOS imager (5 MP)
- » Up to 160 fps 3D data Up to 10 m application range*
- » Gigabit Ethernet
- » PoE++ Support
- » Field-of-View 90°



Applications

- » People counting / tracking
- » Building Automation
- » 3D light barrier - safety area
- » Gesture Recognition
- » HMI for industrial robots
- » Range measurements



Argos^{3D} - P320 point cloud for e.g. goods inspection

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3D & 2D Depth Sensor



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Feature Overview

Depth Sensor	PMD ToF (19k-S3) 160 x 120 Pixel up to 160 FPS*
2D CMOS	OV5640 (5 MP) 1080p
Range *	up to 10 m Indoor up to 3 m Outdoor
LEDs	12 high power LEDs
Power Supply	12 - 30 V _{DC}
Ethernet	1000 Mbit/s
PoE++	up to 60 W
OWIRE	1
RS 485 / 232	1 / 1
GPIO I/O	1 (galvanic isolated)
I ² C	1
CAN	1
Galvanic isolated input	2
Galvanic isolated output	4
Trigger In	1
Trigger Out	1
Temperature Range	Industrial -20 to +60 °C depends on heatsink
Supported OS	Windows Linux
Cooling	Passive
Protection Class	IP 44 (or higher)
Dimensions	200 x 200 x 62 mm

* FPS & Range depends on integration time, ambient temperature and software configuration

Software

Argos^{3D} - P320 software support

- » **Linux BSP**
with multi core support



Customization

Argos^{3D} - P320 is focused on modularity. Individual base boards with your required interfaces can easily be implemented.

For further information please contact
sales@bluetechnix.com

Ordering Information

Order No.	Info
150-2032-1	Argos ^{3D} - P320 Evaluation Kit

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