

Argos^{3D} - P100

Time-of-Flight Depth Sensor



BLUETECHNIX
Embedding Ideas

The Argos^{3D} - P100 is a new depth sensor, developed by Bluetechnix, operating on the Time-of-Flight (ToF) principle. The Argos^{3D} - P100 is equipped with a PMD PhotonICS® 19k-S3 Time-of-Flight chip.

This smart depth sensor delivers depth information and gray value image data for each pixel simultaneously. Therefore, it's possible to analyze scenes based on depth data only or in combination with 2D grayscale data.

Using active IR illumination, the sensor is able to capture 3D and 2D information at a resolution of 160 x 120 pixels with up to 160* frames per second independently of ambient light. With a range of up to 3m, a field of view of 90° and a size of only 75 x 57 x 26 mm, this USB connected sensor can be used for next generation systems in various application fields like robotics, gesture recognition, HMI or people counting.



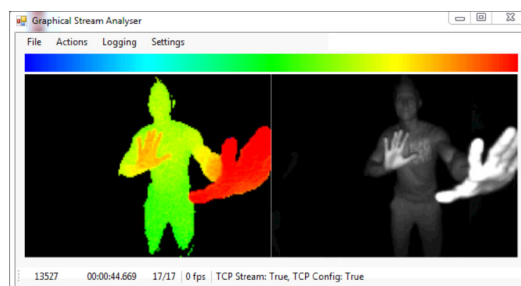
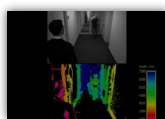
Argos^{3D} - P100

Highlights

- » 3D Depth Sensor PMD ToF technology
- » Real-time capture of 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
- » Telematics
- » Security & Surveillance
- » R&D
- » Universities



Argos^{3D} - P100 distance and greyscale information

Argos^{3D} - P100

Time-of-Flight Depth Sensor



BLUETECHNIX
Embedding Ideas

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	B75 x H57 x T27mm W2.95" x H2.44" D1.06"

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

Software & Development

A powerful SDK is included in your Argos^{3D} - P100 starter kit. This SDK enables direct access to the sensor.

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

Drivers for

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

Natively supported by the following Frameworks

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

Further questions?

office@bluetechnix.com



In the box

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

Ordering Information

Order No.	Info
150-2001-1	Argos ^{3D} - P100 Time-of-Flight Depth Sensor
150-2010-1	ToF - Flash Argos/Sentis Range Extender for ToF Systems

Further information on
www.bluetechnix.com/goto/argos3d-p100

BLUETECHNIX GmbH
Waichhausenstraße 3/19 | 1140 Wien, Austria
P +43 (1) 9142091 x 0 | F +43 (1) 9142091 x 99
www.bluetechnix.com | office@bluetechnix.com