Argos®^{3D} - P100

Time-of-Flight Smart Camera
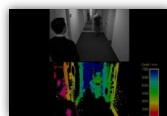

BLUETECHNIX
Embedding Ideas

The Argos^{3D} - P100 is a new 3D camera, 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 3D chip.

This smart 3D camera delivers depth information and gray value image data for each pixel simultaneously. Therefore, it´s possible to analyze scenes based on 3D 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 160x120 pixels with up to 160* frames per second independently of ambient light. With a range of 3m, a field of view of 90° and a size of only 75 x 57 x 26 mm, this USB camera can be used for next generation sensor systems in various application fields like robotics, gesture recognition, HMI or people counting.
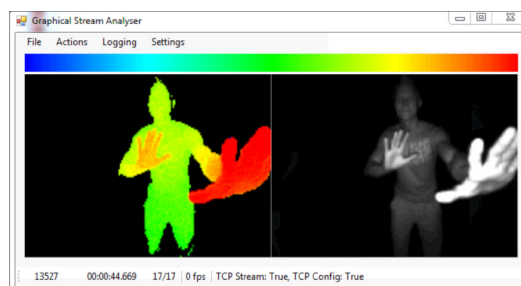

Application Areas

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

Highlights

- » 3D depth sensor PMD ToF technology
- » Real-time capture of distance and grayscale information
- » 160 x 120 pixel
- » Up to 160fps*
- » USB 2.0
- » GenICam™ standard
- » Active IR illumination 850nm
- » Field-of-View 90°

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

Argos®^{3D} - P100

Time-of-Flight Smart Camera

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Feature Overview

3D TECHNOLOGY	PMD ToF
PIXEL	160 x 120
FPS	up to 160*
POWER SUPPLY	$5V_{DC}$ @ 2.6A
USB 2.0	1 x Device
LED SYNC	1
TEMPERATURE RANGE	Commercial 0 to +70 °C
SUPPORTED STANDARD	GenICam™ standard
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

In the box

» **Argos^{3D} - P100**
» **USB Cable**
» **Tripod**
» **Power Adapter**
» **Documentation**

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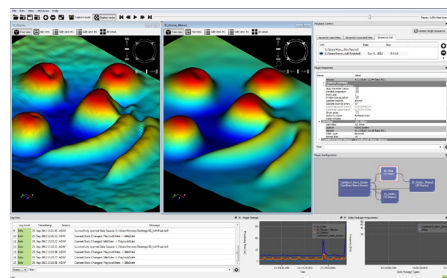**www.bluetechnix.com/goto/argos3d-p100**

NISYS ADAF

Advanced Development and Analysis Framework

ADAF by NISYS consists of an operating system independent middleware and a GUI. The middleware provides the following functionalities:

» Integration of arbitrary sensor devices (Camera, CAN, GPS...)
» Data recording and replay featuring a microsecond timestamp resolution
» Synchronization of different sensors
» Framework for development and integration of processing plugins (C/C++)
» Coupling of plugins via processing graph

Further information on **www.nisys.de**

ADAF with Argos^{3D} - P100

Ordering Information

Order No.	Info
150-2001-1	Argos®^{3D} - P100 Time-of-Flight smart camera