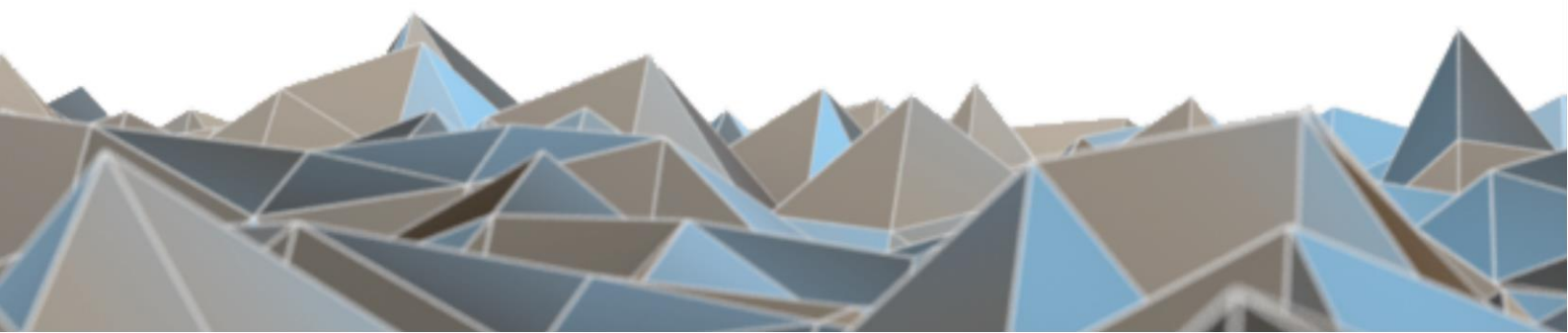


BLUETECHNIX
Embedding Ideas

Argos 3D - P32X

Quick Start Guide

Version 4





BECOM Bluetechnix GmbH

Gutheil Schoder Gasse 17
1230 Vienna
AUSTRIA

office@bluetechnix.com
www.bluetechnix.com

Argos3D-P32X – Quick Start Guide

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Information

For further information on technology, delivery terms and conditions and prices please contact Bluetechnix (<http://www.bluetechnix.com>).

Warning

Due to technical requirements components may contain dangerous substances.

1 Unboxing

1.1 In the box

- Argos3D–P32X
- CAT5/7 Ethernet Cable
- Quick Start Guide
- Power Supply *



* Note

The power supply's operating temperature is specified from 0 to +40°C. This represents not the effective working temperature of the Argos3D–P32X sensor!

1.2 Opening your Argos3D–P32X

To access the connector compartment unscrew the two screws on the Argos3D-P32X front and take off the connector compartment lid.

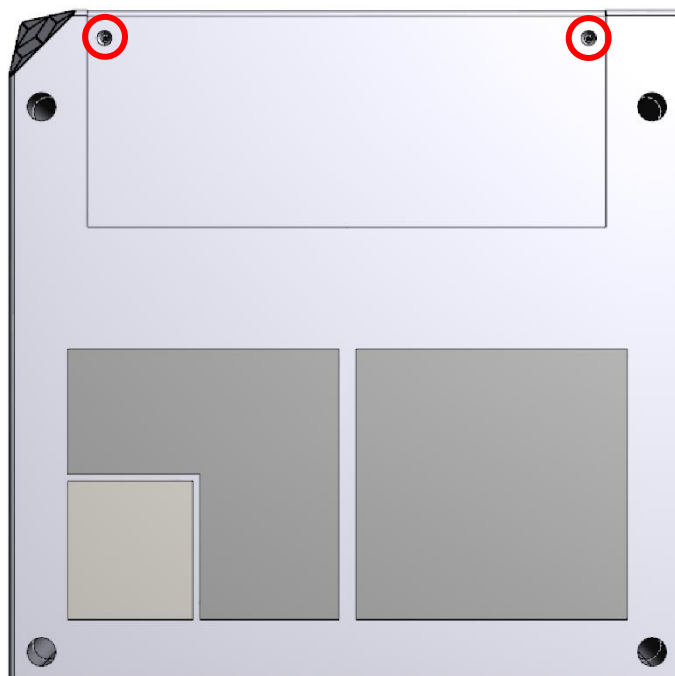


Figure 1-1: Argos3D–P32X connector compartment screw positions

1.3 Connecting your Argos3D–P32X

1.4 Connector Overview

- a. Power Connector
- b. Ethernet
- c. General purpose input 1 & 2
- d. General purpose output 1 & 2
- e. Modulation Light Interface
- f. Trigger
- g. RS232 / RS485
- h. DIP-Switch
- i. Reset-Button
- j. Debug-UART
- k. Status LED

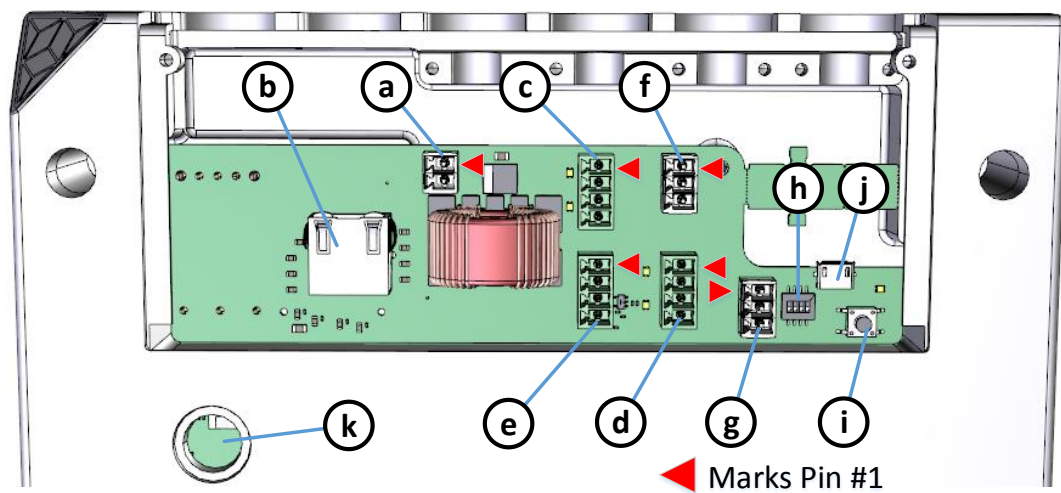


Figure 1-2: Argos3D–P32X connectors and interfaces

! **Note**
Please follow the next steps in the right order to get your 'Argos3D-P32X' up and running correctly.

1.4.1 Connecting the power supply

To ensure, that your Argos3D–P32X works correctly, connect the ‘Argos3D’ to a **12-30V DC** power supply using connector **(a)** and wait for approximately 20 seconds until the camera boots up.

Pin assignment on the power connector (a): Pin #1: +12V to +30V, Pin#2: GND

! **Note**
The power supply connector is protected against wrong polarity but the ‘Argos3D’ will not work in case you don’t use the correct polarity! If the Argos3D–P32X doesn’t work please check the power supply polarity first!

1.4.2 Connecting the Ethernet Cable

Plug in the Ethernet cable **(b)** and connect your Argos3D–P32X to your PC.

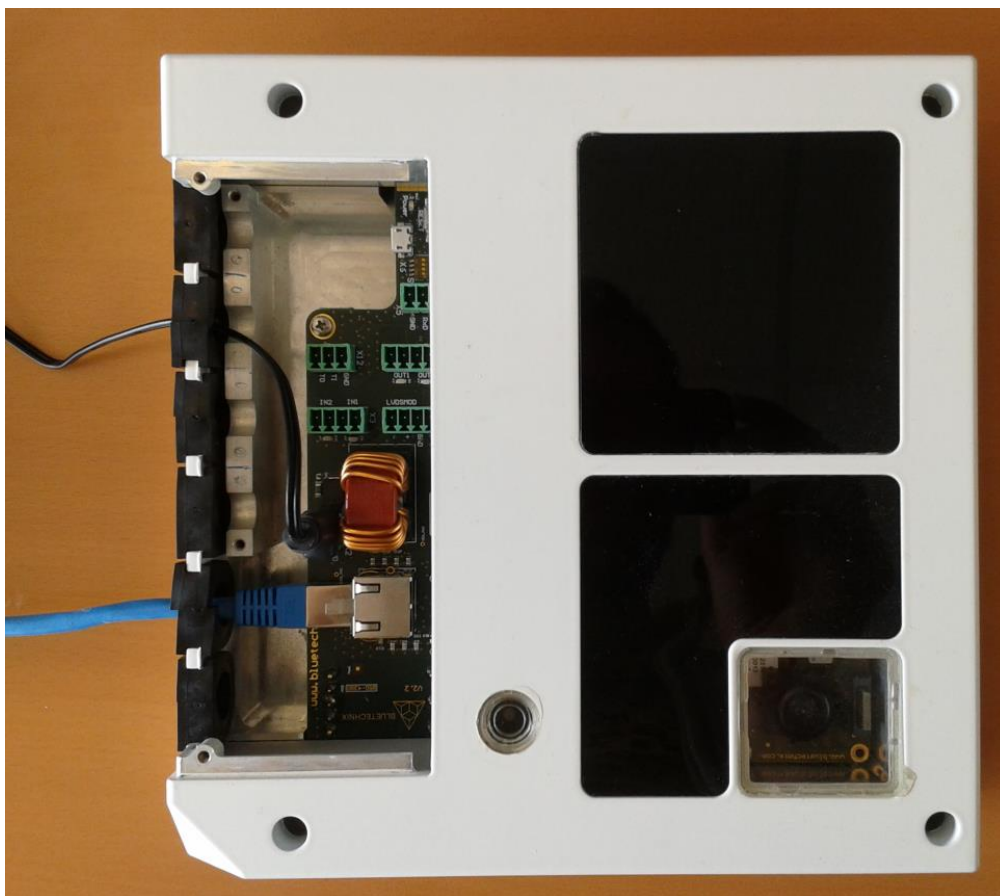


Figure 1-3: Argos3D–P32X with connected power supply and Ethernet cable

2 Downloading the Evaluation Software

Please log in to our support website at <https://support.bluetechnix.com/> and download the Argos-P32X customer software package. This package also includes the Bluetechnix ToF-Suite.

2.1 Support website

Select ,free access‘

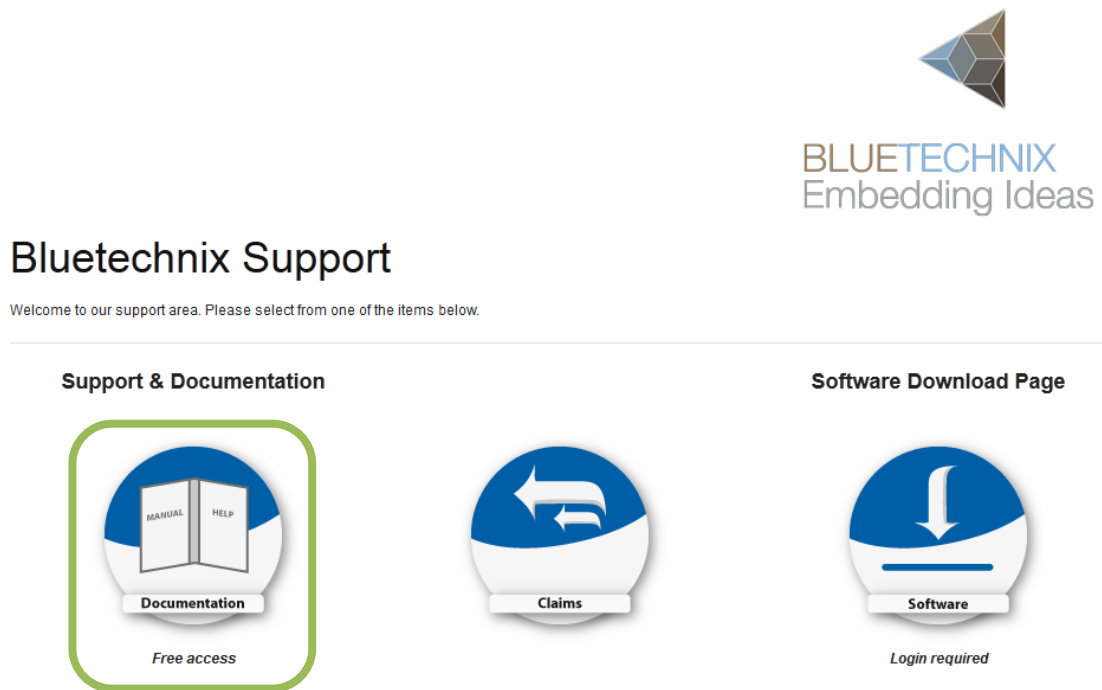


Figure 2-1: Download Evaluation Package

2.2 Start-up screen

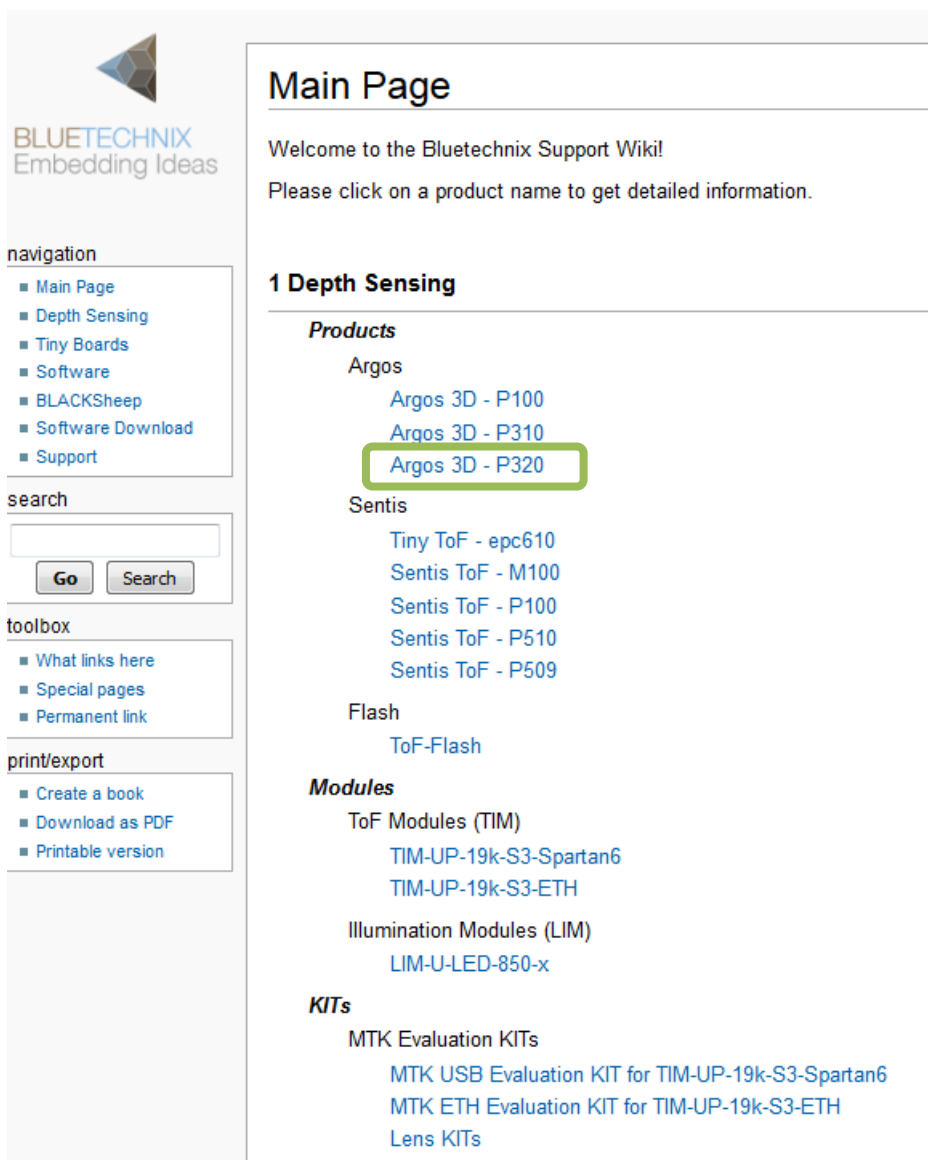


Figure 2-2: Start-up screen

Please select your product: Argos 3D – P32X

Please follow the instructions on the WEB-Site

2.3 Prepare your Network Interface Card (NIC)

Once you have connected your Argos3D–P32X to a Network Interface Card (NIC) of your PC give this NIC the IP-Address 192.168.0.1 with a subnet mask of 255.255.255.0.

No driver must be installed on your PC!

The Argos3D–P32X uses IP-Address 192.168.0.10 with subnet mask 255.255.255.0.

3 Start using your Argos3D–P32X with ‘BltTofSuite’

Browse to the directory where you previously saved the BltTofSuite software zip file. Unzip the software.

Using this software you can simply display the depth image and the amplitude image of the Argos3D–P32X. For a detailed introduction to the software, please read the ‘Bluetechnix ToF Suite - Quick Start Guide’

Place the Argos3D–P32X on your desk approximately 50 cm in front of you.



Figure 3-1: Sample scenario with Argos3D–P32X

Go to the directory where you unzipped the software and start the “*BltTofSuite.exe*”. On how to use the Bluetechnix ToF Suite, please refer to the user manual included in the software support package.

4 System Requirements & Support

An Argos3D–P32X enabled application is required in order to use this ‘Argos3D’ device.

Connect to a system with:

- Operating System: Microsoft Windows XP/7/Vista
- 32 bit (x68) or 64 bit (x64) processor
- Dual-core 2 GHz or faster CPU
- Dedicated Ethernet port
- 2GByte RAM

4.1 Support

For answers to common questions, troubleshooting steps and further documentation visit our Bluetechnix support website or using the direct link: https://support.bluetechnix.at/wiki/Argos_3D-P320

5 Document Revision History

Version	Date	Document Revision
1	20151012	First draft
2	20160210	Removed BltTofSuite section
3	20160610	Support for Argos3D-P321 added
4	20170203	Renamed to P32X Product changes removed. Please refer to HUM for product changes.

Table 5.1: Revision history