

**BLUETECHNIX**  
Embedding Ideas

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# Argos 3D - P310

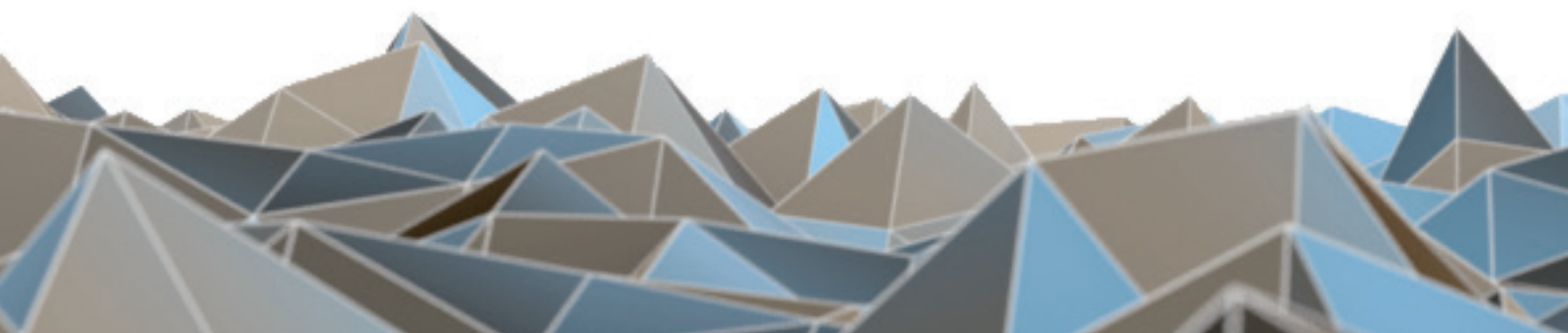
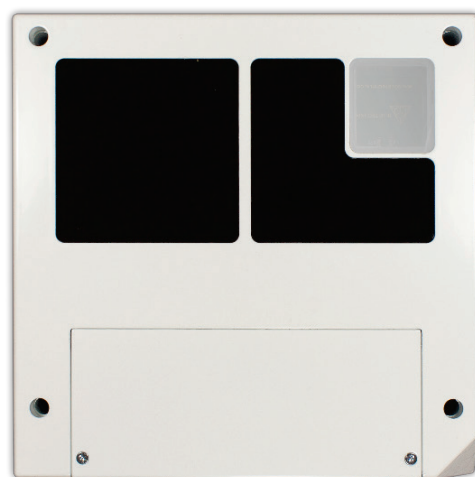
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Quick Start Guide

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Version 1

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Argos3D-P310 – 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-P310
- CAT5/7 Ethernet Cable
- Quick Start Guide
- Customer Software Package CD
- 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-P310 sensor!

### 1.2 Opening your Argos3D-P310

To access the connector compartment unscrew the two screws on the Argos3D-P310 front and take off the connector compartment lid.

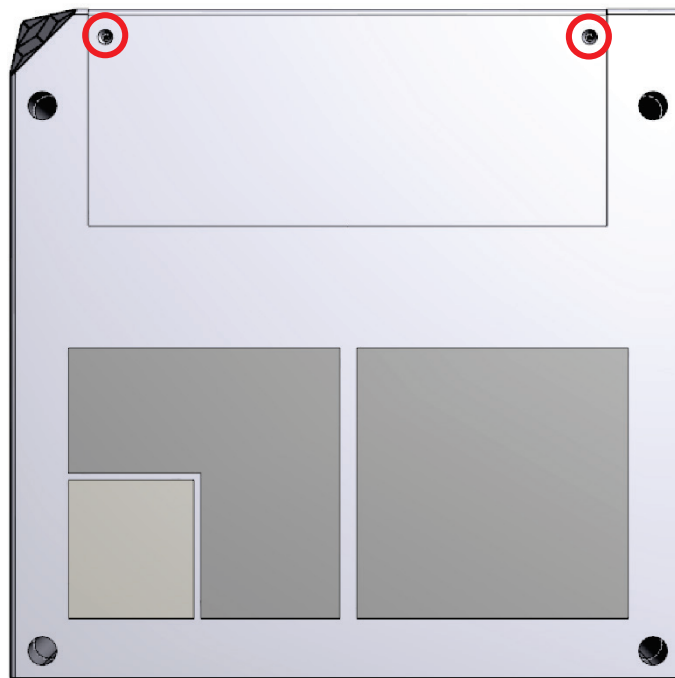


Figure 1-1: Argos3D-P310 connector compartment screw positions



## 1.3 Connecting your Argos3D–P310

### 1.4 Connector Overview

- |                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| a. Ethernet (RJ45) 10/100Base-T      | h. Configuration DIP-Switch                          |
| b. GPIO: Output 1-2                  | i. Trigger I/O and RS232                             |
| c. GPIO: Output 3-4                  | j. Power Supply<br>(Pin#1: +12V to +30V, Pin#2: GND) |
| d. GPIO: Input 1-2                   | k. BOOT button                                       |
| e. RS232/485                         | l. RESET button                                      |
| f. CAN                               | m. Micro B USB                                       |
| g. Connector for external modulation |                                                      |

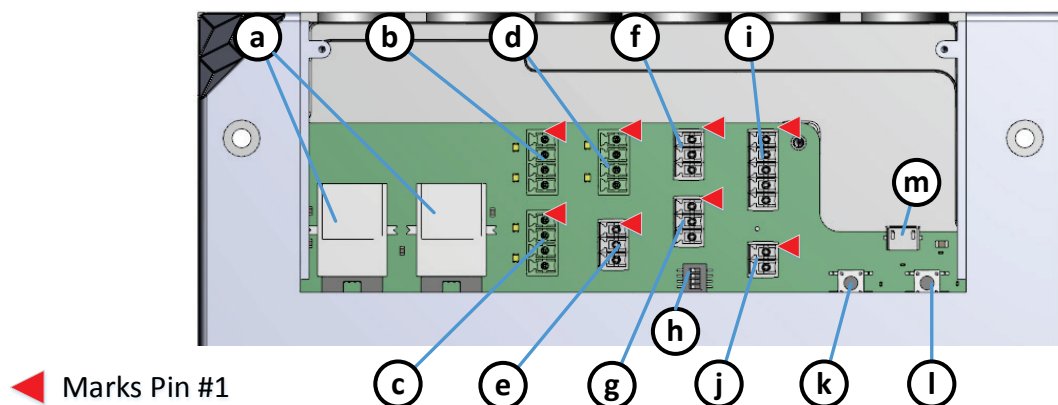


Figure 1-2: Argos3D–P310 connectors and interfaces



#### Note

Please follow the next steps in the right order to get your 'Argos3D' up and running correctly.



### 1.4.1 Connecting the power supply

To ensure, that your Argos3D-P310 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-P310 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-P310 to your PC.

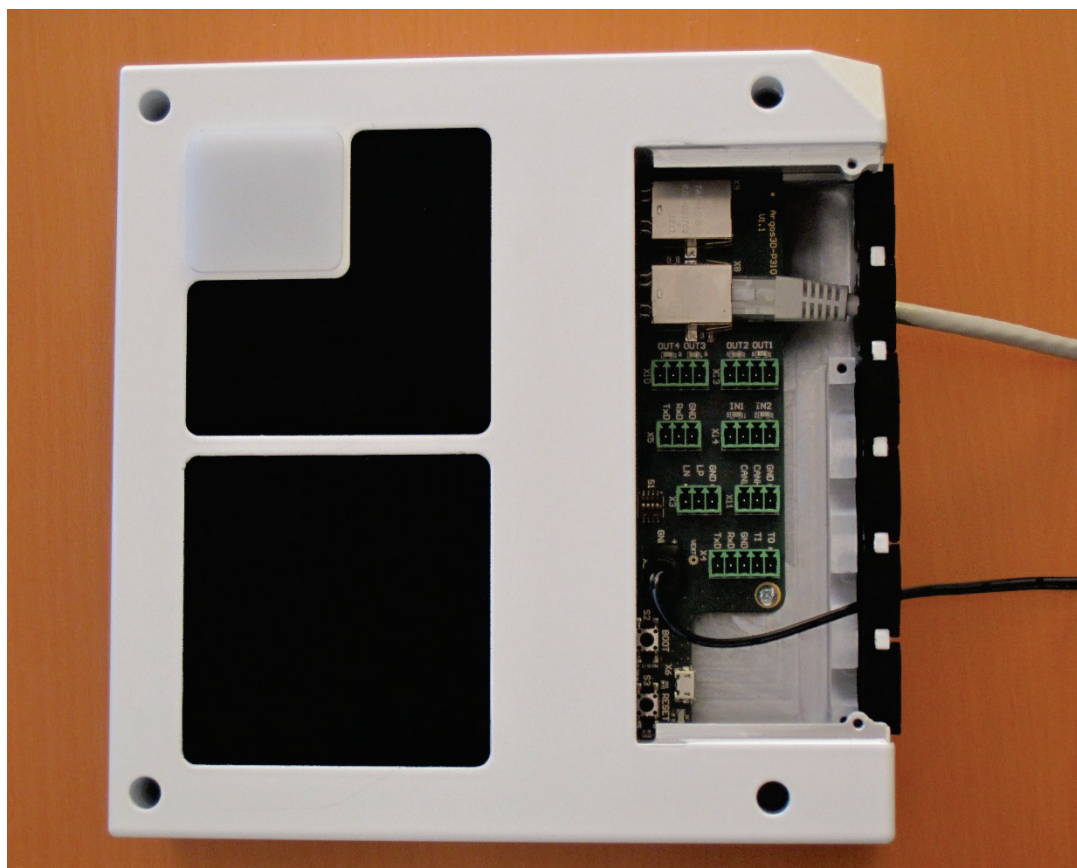


Figure 1-3: Argos3D-P310 with connected power supply and Ethernet cable

## 2 Downloading the Evaluation Software

Please log in to our support website at <https://support.bluetechnix.com/> and download the Argos3D-P310 customer software package CD. This package also includes the Bluetechnix ToF-Suite V3.2

### 2.1 Support website

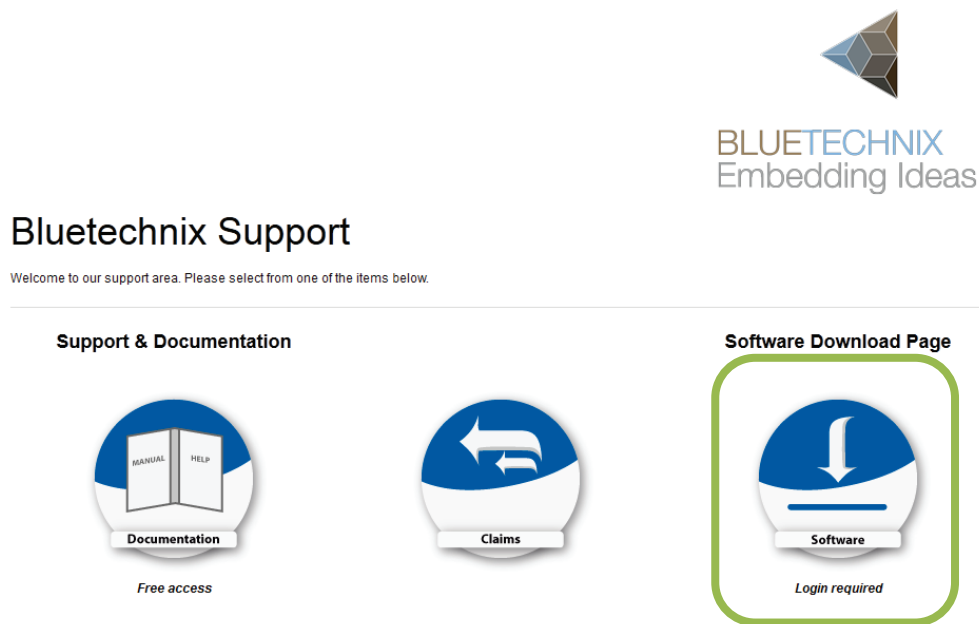


Figure 2-1: Download Evaluation Package

### 2.2 Login Screen

Bluetechnix Subversion Access Management System

Log In

Dear valued customer,

Thank you for purchasing Bluetechnix software. Please note that to enter this site you will need to create an account. If you haven't done so yet, please [sign up here](#). If you already have an account, you may log in using your email address and password below.

For documentation and support please click [here](#).

Login Details

Email address

Password

Login

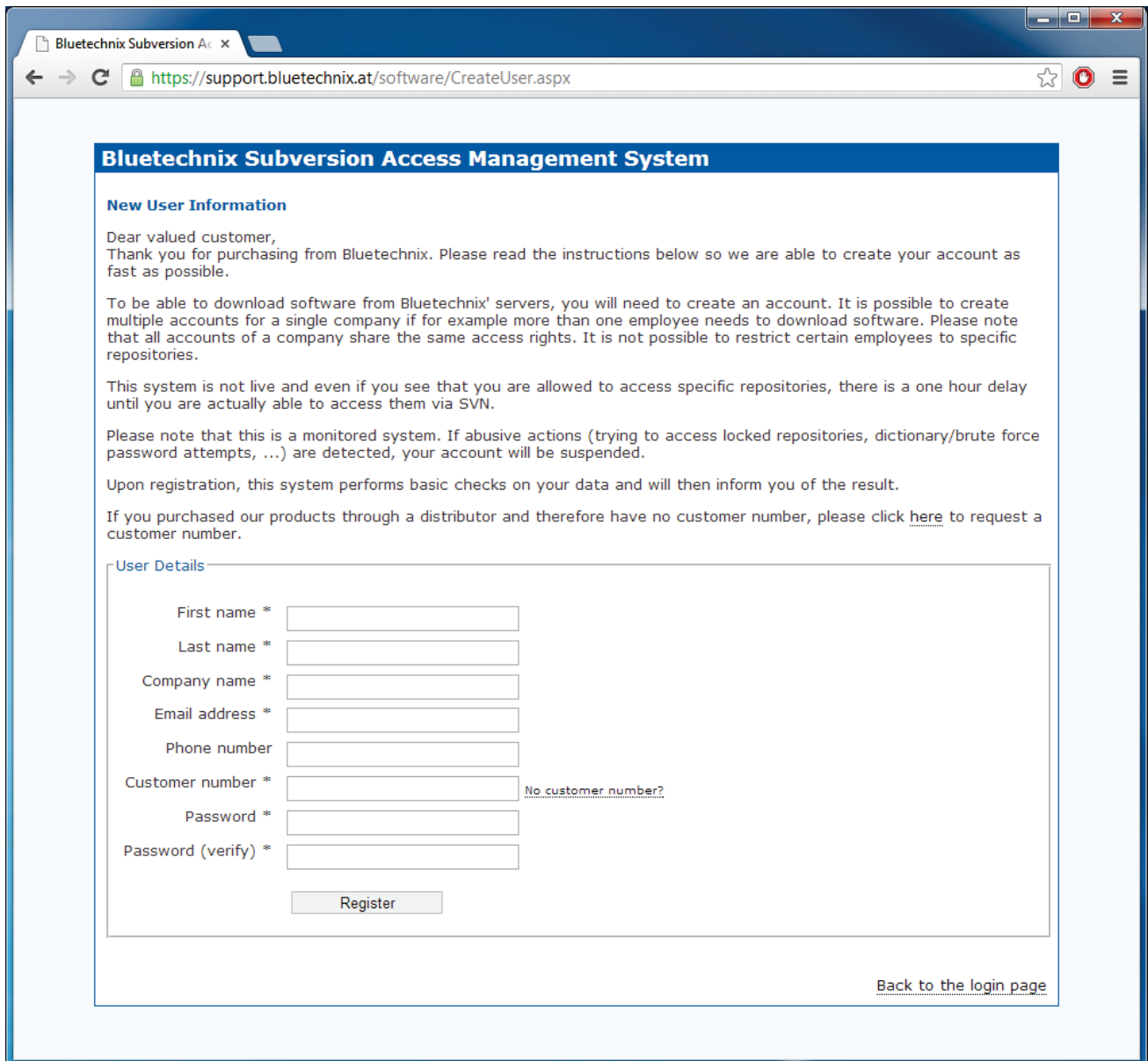
Figure 2-2: Login screen



## 2.3 Register as new customer

If you don't have a valid customer login you can create a new account at

<https://support.bluetechnix.com/software/CreateUser.aspx>



The screenshot shows a web browser window with the address bar displaying <https://support.bluetechnix.at/software/CreateUser.aspx>. The page title is "Bluetechnix Subversion Access Management System". The main content area is titled "New User Information" and contains the following text:

Dear valued customer,  
Thank you for purchasing from Bluetechnix. Please read the instructions below so we are able to create your account as fast as possible.

To be able to download software from Bluetechnix' servers, you will need to create an account. It is possible to create multiple accounts for a single company if for example more than one employee needs to download software. Please note that all accounts of a company share the same access rights. It is not possible to restrict certain employees to specific repositories.

This system is not live and even if you see that you are allowed to access specific repositories, there is a one hour delay until you are actually able to access them via SVN.

Please note that this is a monitored system. If abusive actions (trying to access locked repositories, dictionary/brute force password attempts, ...) are detected, your account will be suspended.

Upon registration, this system performs basic checks on your data and will then inform you of the result.

If you purchased our products through a distributor and therefore have no customer number, please click [here](#) to request a customer number.

The "User Details" section contains the following form fields:

- First name \*
- Last name \*
- Company name \*
- Email address \*
- Phone number
- Customer number \* (with a link [No customer number?](#))
- Password \*
- Password (verify) \*

A "Register" button is located below the form fields. At the bottom right of the form area, there is a link [Back to the login page](#).

Figure 2-3: Registration form



## 2.4 Prepare your Network Interface Card (NIC)

Once you have connected your Argos3D–P310 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–P310 uses IP-Address 192.168.0.10 with subnet mask 255.255.255.0.

### 3 Start using your Argos3D–P310 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–P310. For a detailed introduction to the software, please read the ‘Bluetechnix ToF Suite - Quick Start Guide’

Place the Argos3D–P310 on your desk approximately 50 cm in front of you.



Figure 3-1: Sample scenario with Argos3D–P310

Go to the directory where you unzipped the software and start the “*BltTofSuite.exe*”. Connect to the Argos3D-P310 using the network configuration listed in 2.4. After the connection is established, you should see something like the screenshot below.

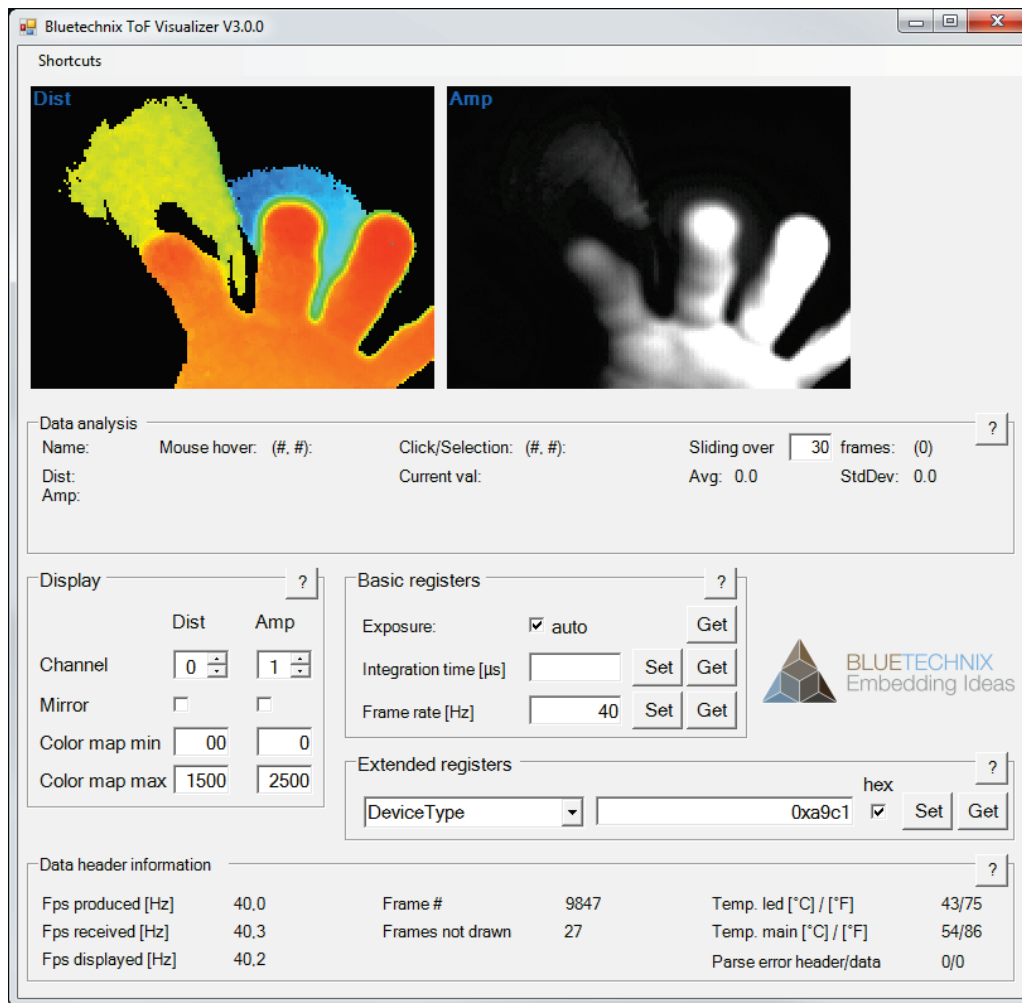


Figure 3-2: BitToF Suite screenshot

## 4 System Requirements & Support

An Argos3D-P310 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 Bluetechnix ToF Suite

Visualizer is a .NET application and needs the **.NET framework 4.0** which is available from Microsoft for all actual Windows versions.

### 4.2 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 - P310](https://support.bluetechnix.at/wiki/Argos_3D_-_P310)



## 5 Product History

### 5.1 Version Information

#### 5.1.1 Argos3D-P310

Version	Release date	Firmware Version
X-Grade	Aug 2014	V0.4.0
X-Grade	Oct 2014	V1.0.0

Table 5.1: Overview Argos3D-P310 product changes

Additional information can be found at <http://support.bluetechnix.com>

### 5.2 Anomalies

Version	Date	Description
0.0.0		No anomalies reported yet.

Table 5.2: Product anomalies

Additional information can be found at <http://support.bluetechnix.com>

### 5.3 Document Revision History

Version	Date	Document Revision
0	20140807	First draft
1	20141003	Added firmware version 1.0.0

Table 5.3: Revision history



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