Argos$^{3D}$ - P100 - Quick Start Guide

Document No.: 900-308 / A

Publication date: February 11, 2016

Applicable to: plugins release $\geq 0.3$

Subject to change without notice. Errors excepted.

This document is protected by copyright. All rights reserved. No part of this document may be reproduced or transmitted for any purpose in any form or by any means, electronically or mechanically, without expressly written permission by Bluetechnix GmbH.

Windows is a registered trademark of Microsoft.

©Bluetechnix 2016
# Table of Contents

1 Unboxing ...................................................................................................................... 5
   1.1 In the box .................................................................................................................... 5
   1.2 Connecting your Argos\textsuperscript{3D} - P100 ............................................................... 5
       1.2.1 Connector Overview .......................................................................................... 5
       1.2.2 Connecting the power supply ............................................................................ 6
       1.2.3 Connecting USB2.0 cable ................................................................................ 6
2 Downloading the support package .................................................................................. 7
   2.1 Support website ......................................................................................................... 7
   2.2 Start-up screen .......................................................................................................... 8
3 Install Argos\textsuperscript{3D} - P100 Drivers ........................................................................ 10
4 Start using your Argos\textsuperscript{3D} - P100 with “BltTofSuite” ........................................ 17
5 System Requirements & Support ................................................................................... 18
   5.1 Support ..................................................................................................................... 18
6 Product History .............................................................................................................. 19
   6.1 Document Revision History ..................................................................................... 19
The information herein is given to describe certain components and shall not be considered as a guarantee of characteristics.

Terms of delivery and rights of technical change reserved.

We hereby disclaim any warranties, including but not limited to warranties of non-infringement, regarding circuits, descriptions and charts stated herein.

Bluetechnix makes and you receive no warranties or conditions, express, implied, statutory or in any communication with you. Bluetechnix specifically disclaims any implied warranty of merchantability or fitness for a particular purpose.

Bluetechnix takes no liability for any damages and errors causing of the usage of this board. The user of this board is responsible by himself for the functionality of his application. He is allowed to use the board only if he has the qualification. More information is found in the General Terms and Conditions (AGB).

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 - P100
- Micro USB Cable
- 5Vdc/3A Power Supply
- Tripod
- Quick Start Guide

1.2 Connecting your Argos3D-P100

1.2.1 Connector Overview

The Argos3D - P100 features three connectors. A 5Vdc@2.5A connection, Micro USB2.0 and an external sync interface.

![Connector Overview Diagram]

Figure 1-1: Connector Overview

a. Modulation Light Interface
b. Micro USB 2.0 Interface
c. Power Connector

**NOTE:** Please follow the next steps in the right order to get your 'P100' up and running correctly.
1.2.2 Connecting the power supply

To ensure, that your Argos\textsuperscript{3D} - P100 works correctly, plug in the power supply and wait for approximately 10 seconds until the camera boots up.

![Figure 1-2: Connecting Power Supply](image)

1.2.3 Connecting USB2.0 cable

After boot up, plug in the micro USB2.0 cable and connect your Argos\textsuperscript{3D} - P100 to a free USB port of your PC.

![Figure 1-3: Connecting USB2.0 cable](image)
2  Downloading the support package

Please point your browser to our support site https://support.bluetechnix.com/ and select the ‘Free Access’ area.

2.1  Support website

Bluetechnix Support

Welcome to our support area. Please select from one of the items below:

Support & Documentation

Software Download Page

Free access

Login required

Figure 2-1: Bluetechnix support site
2.2 Start-up screen

Main Page

Welcome to the Bluetechnix Support Wiki!
Please click on a product name to get detailed information.

1 Depth Sensing

Products

Argos
- Argos 3D - P100
- Argos 3D - P310

Sentis
- Tiny ToF - opc610
- Sentis ToF - M100
- Sentis ToF - P100
- Sentis ToF - P510
- Sentis ToF - P509

Flash
- ToF-Flash

Modules
- ToF Modules (TIM)
  - TIM-UP-19k-S3-Spartan6

KITS
- MTK Evaluation KITS
  - MTK USB Evaluation KIT for TIM-UP-19k-S3-Spartan6
  - MTK ETH Evaluation KIT for TIM-UP-19k-S3-ETH

Figure 2-2: Start-up screen

Please select your product: Argos3D – P100

On the product support page please download the latest support package from the download section.
Once you downloaded the support package extract the .zip file on your hard drive to e.g. C:\Argos3D-P100\ and read the Readme.txt first.

<table>
<thead>
<tr>
<th>Name</th>
<th>Date modified</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>blt_tof_spi</td>
<td>11.02.2016 06:55</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>driver</td>
<td>11.02.2016 08:55</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>firmware</td>
<td>11.02.2016 08:55</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>manual</td>
<td>11.02.2016 08:57</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>matlab_dev_kit</td>
<td>11.02.2016 08:58</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>tools</td>
<td>11.02.2016 08:55</td>
<td>File folder</td>
<td></td>
</tr>
<tr>
<td>MIT.txt</td>
<td>10.02.2016 17:47</td>
<td>TXT File</td>
<td>2 KB</td>
</tr>
<tr>
<td>Readme.txt</td>
<td>10.02.2016 17:58</td>
<td>TXT File</td>
<td>2 KB</td>
</tr>
</tbody>
</table>

Figure 2-3: Unzipped support package
3 Install Argos\textsuperscript{3D} - P100 Drivers

At the first time you have plugged in your Argos\textsuperscript{3D} - P100, you have to install the driver which can be found in the support package.

Open the Windows “Device Manager” in the “Control Panel”

![Windows Device Manager](image)

Figure 3-1: Windows Device Manager
Once Device Manager is opened, right click “Blutechnix – Argos3D – P100” in “Other Devices” and click “Update Driver Software”.

![Device Manager – Update Driver Software](image)

Figure 3-2: Device Manager – Update Driver Software
Then choose “Browse my computer for driver software”.

Figure 3-3: Locate and install driver software manually
Point the driver install utility to “C:\Argos3D-P100\windows\driver” on your local hard drive. Check “Include subfolders” and click “Next”.

Figure 3-4: Browse for driver software on your computer
If the following question arises, choose to lay your trust upon Bluetechnix GmbH.

![Windows Security]

Would you like to install this device software?

Name: Bluetechnix GmbH
Publisher: Bluetechnix GmbH

☑ Always trust software from "Bluetechnix GmbH".  
Install  
Don't Install

You should only install driver software from publishers you trust. [How can I decide which device software is safe to install?]

Figure 5: Always trust software from “Bluetechnix GmbH”
The *Update Driver Software Utility* finishes the driver installation showing following Window.

![Driver Software successfully installed]

*Figure 3-6: Driver Software successfully installed*
After successful driver installation there should be a new device in the device manager named “Blutechnix - Argos 3D - P100”.

!!!

**Congratulations**

You now have successfully installed your Argos$^{3D}$ - P100 on your PC.
4 Start using your Argos\textsuperscript{3D} - P100 with “BltTofSuite”

Browse to the directory where you previously saved the BltTofSuite software zip file. Unzip the software. On how to use this software, please refer to the Bluetechnix ToF Suite user manual included in the support package.

Figure 8: Sample scenario with the Argos3D - P100
5 System Requirements & Support

An ArgosID - P100 enabled application is required in order to use this ArgosID - P100 device.

Connect to a system with:

- Operating System: Microsoft Windows XP/7, Ubuntu 12.04 or compatible
- 32 bit (x68) or 64 bit (x64) processor
- Dual-core 2 GHz or faster CPU
- Dedicated USB 2.0 port or USB 3.0 port
- 2 GByte RAM

5.1 Support

For answers to common questions, troubleshooting steps and further documentation visit our Bluetechnix support website or using the direct link: https://support.bluetechnix.com/wiki/Argos
6 Product History

6.1 Document Revision History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Document Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>First draft</td>
</tr>
<tr>
<td>2</td>
<td>20160210</td>
<td>Removed BitToSuite section</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Updated driver installation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Updated Downloading support package</td>
</tr>
</tbody>
</table>

Table 6.1: Revision history