

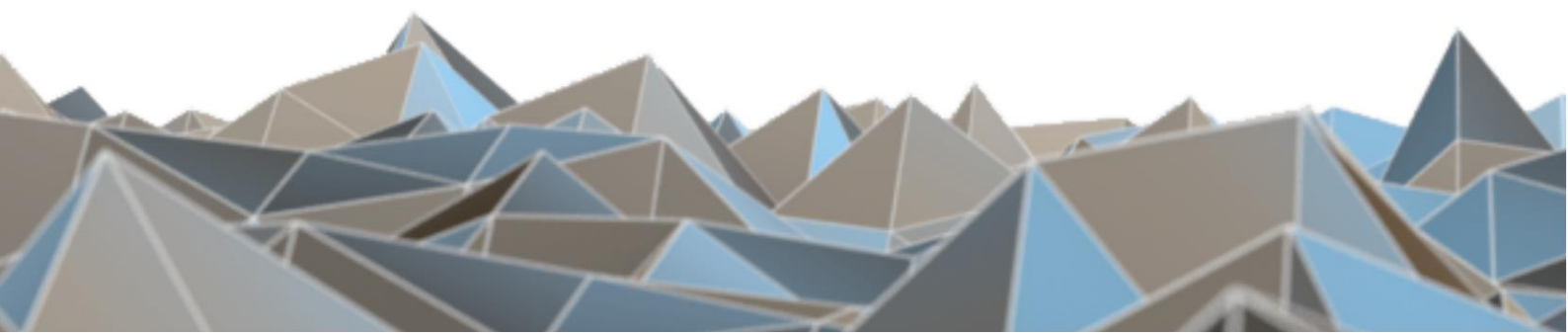
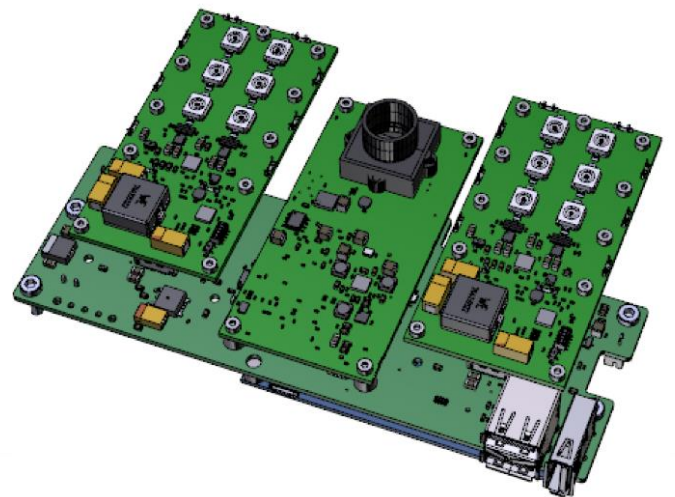
BLUETECHNIX
Embedding Ideas

Sentis3D- M521*

Quick Start Guide

Version 4

*) former named Sentis-ToF-P509



Bluetechnix

Waidhausenstraße 3/19
A-1140 Vienna
AUSTRIA

office@bluetechnix.com
www.bluetechnix.com

Sentis3D-M521 Quick Start Guide

Publication date: May 3, 2016

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.

Table of Contents

1	Unboxing	5
1.1	In the box	5
1.2	Connecting your Sentis3D-M521	5
1.2.1	Connector Overview	5
1.2.2	Power Connector (a)	6
1.2.3	GBit Ethernet Connector (b)	6
1.3	Overview of the Setup.....	7
2	Downloading the Evaluation Software	8
2.1	Support website	8
2.2	Start-up screen	9
2.3	Prepare your Network Interface Card (NIC)	9
3	Start using your Sentis3D-M521 with 'BltTofSuite'	10
4	System Requirements & Support.....	11
4.1	Support	11
5	Product History	12
5.1	Version Information	12
5.1.1	Sentis3D-M521	12
5.2	Anomalies.....	12
5.3	Document Revision History	12

© Bluetechnix 2016

All Rights Reserved.

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

- Sentis3D-M521
- CAT5/7 Ethernet Cable
- Quick Start Guide
- Power Supply * + adapter-cable
- Mains cable
- Tripod



* Note

The power supply's operating temperature is specified from 0 to +40°C. This represents not the effective working temperature of the Sentis3D-M521 sensor!

1.2 Connecting your Sentis3D-M521

1.2.1 Connector Overview

- a. Power Supply
- b. GBit Ethernet (RJ45) 10/100/1000 Base-T

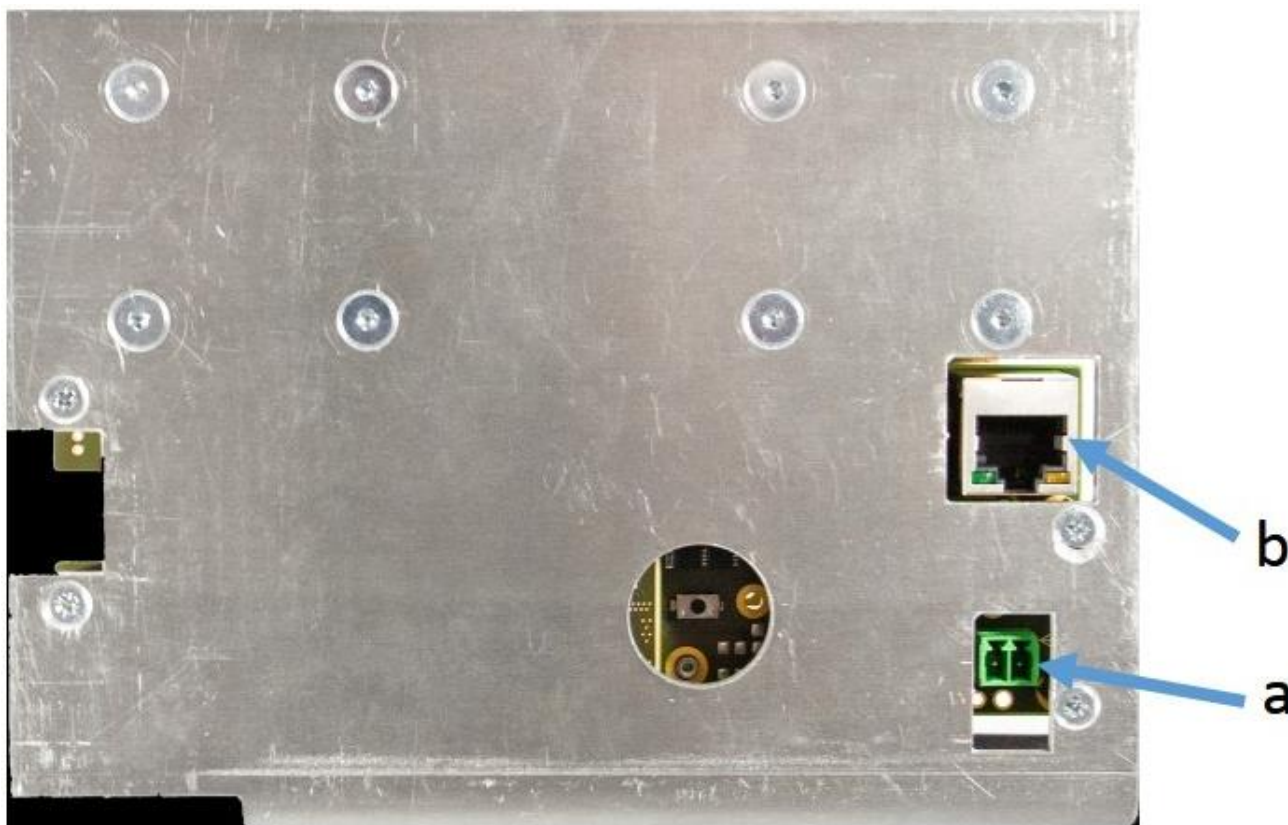


Figure 1-1: Sentis3D-M521 connectors and interfaces

**Note**

Please follow the next steps in the right order to get your Sentis3D-M521 up and running correctly.

1.2.2 Power Connector (a)

Connect the power supply to the power connector (a) using the adapter cable.

Pin assignment on the power supply connector (without connected adapter):

Connector Type: 2.1mm ID / 5.5mm OD

Voltage: 18-30V

**Note**

Use inherently limited power sources only!

The power supply connector is protected against wrong polarity but the Sentis3D-M521 will not work in case you don't use the correct polarity!

To ensure, that your Sentis3D-M521 works correctly, connect device to the **24V DC** power supply using connector **(a)** and wait for approximately 20 seconds until the camera boots up.

1.2.3 GBit Ethernet Connector (b)

This standard RJ45 connector provides a 10/100/1000 Base-T interface to the Sentis3D-M521.

Plug in the Ethernet cable **(b)** and connect your Sentis3D-M521 to your PC.

1.3 Overview of the Setup

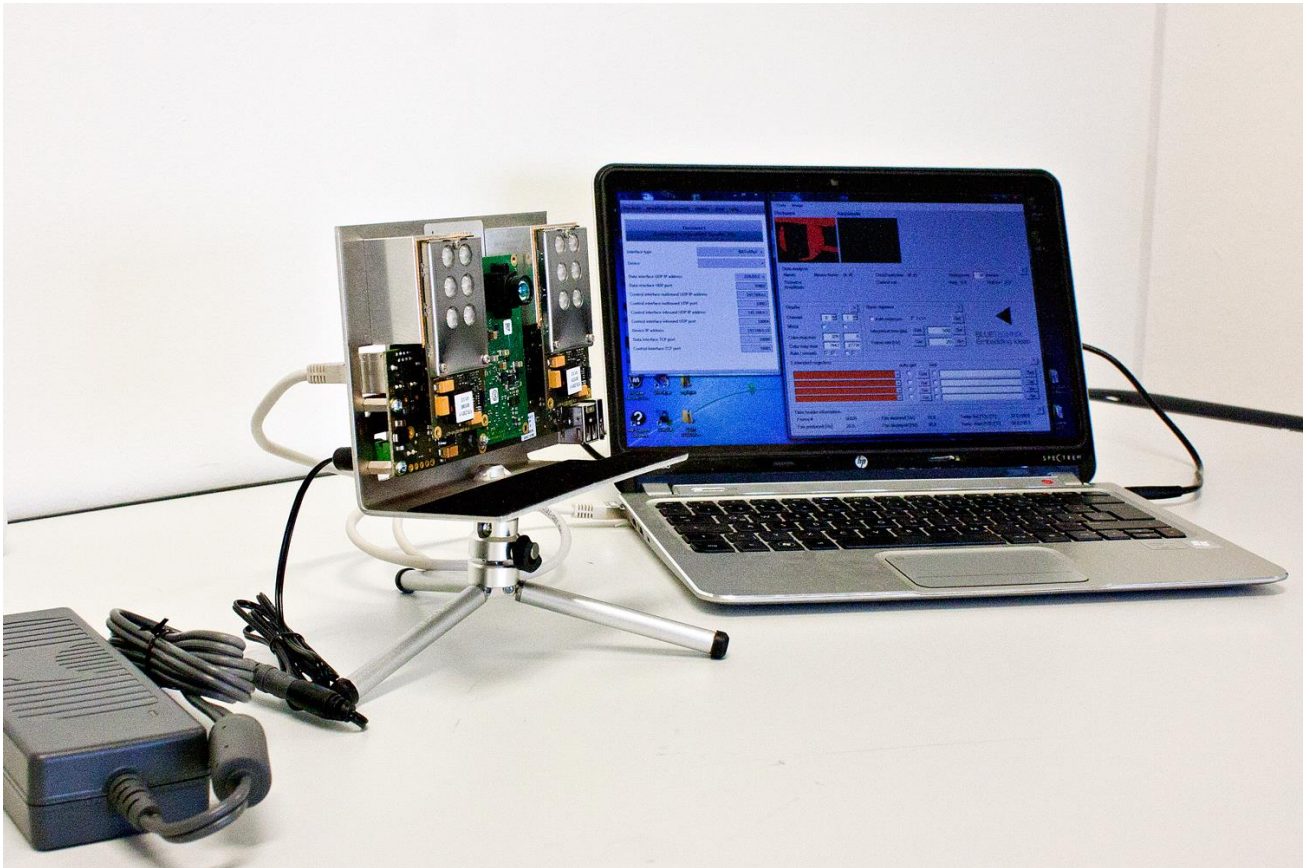


Figure 1-2: Sentis3D-M521 with connected power supply and Ethernet cable

2 Downloading the Evaluation Software

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

2.1 Support website

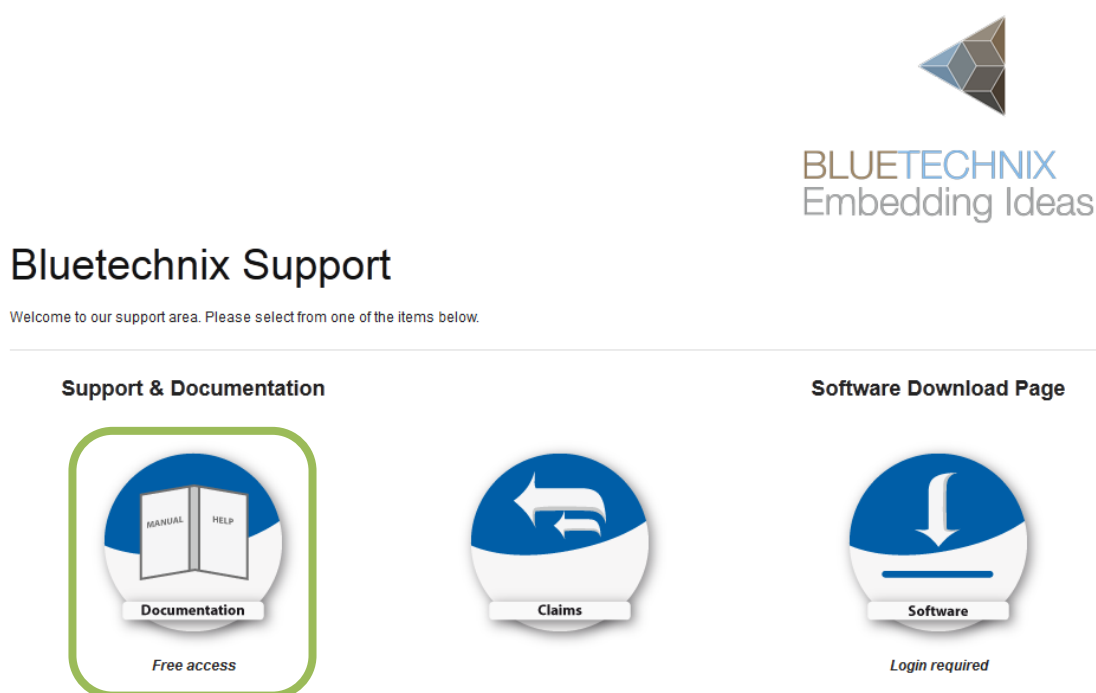


Figure 2-1: Bluetechnix support site

2.2 Start-up screen

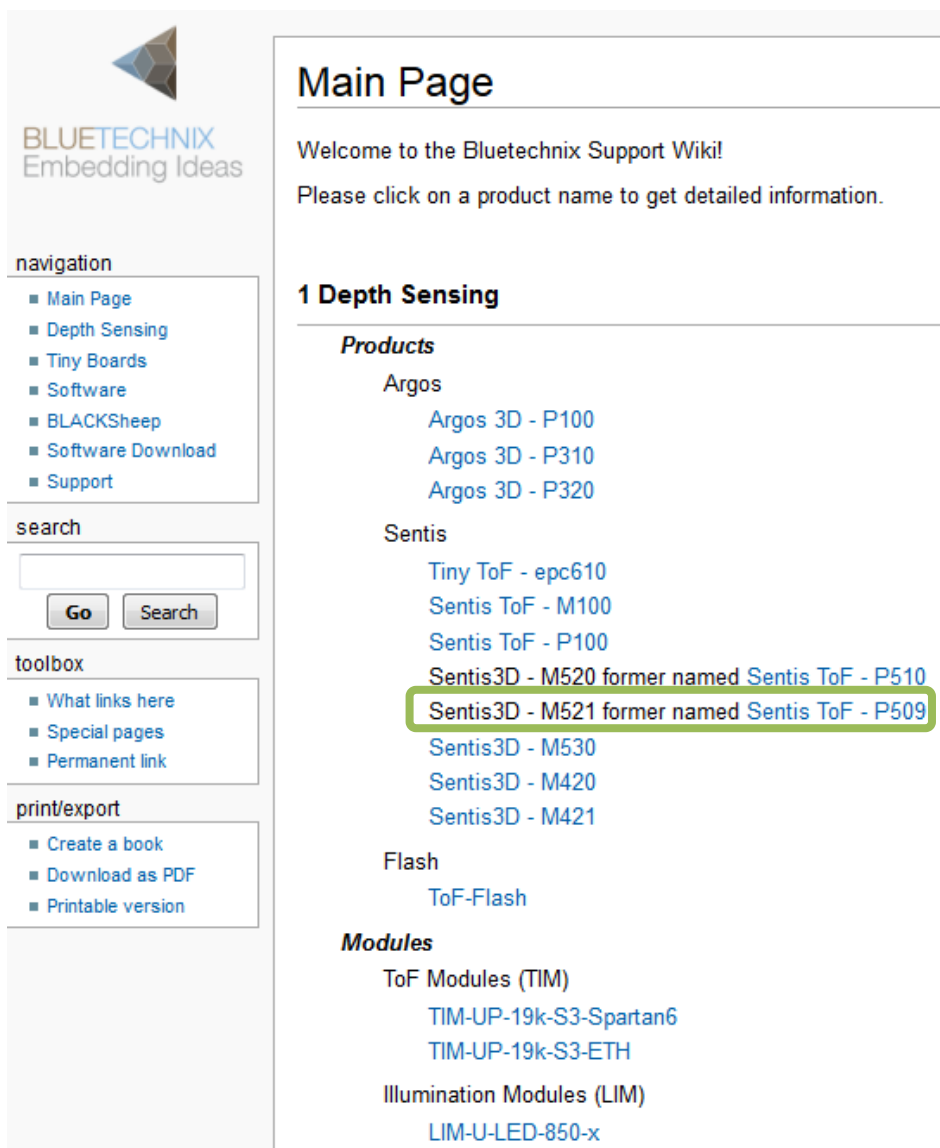


Figure 2-2: Start-up screen

Please select your product: Sentis3D-M521

On the product support page please download the latest support package from the download section.

2.3 Prepare your Network Interface Card (NIC)

Once you have connected your Sentis3D-M521 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 Sentis3D-M521 uses IP-Address 192.168.0.10 with subnet mask 255.255.255.0.

3 Start using your Sentis3D-M521 with 'BltTofSuite'

Using this software you can simply display the depth image and the amplitude image of the Sentis3D-M521. For a detailed introduction to the software, please read the 'Bluetechnix ToF Suite - Quick Start Guide'

Place the Sentis3D-M521 on your desk approximately 50 cm in front of you.

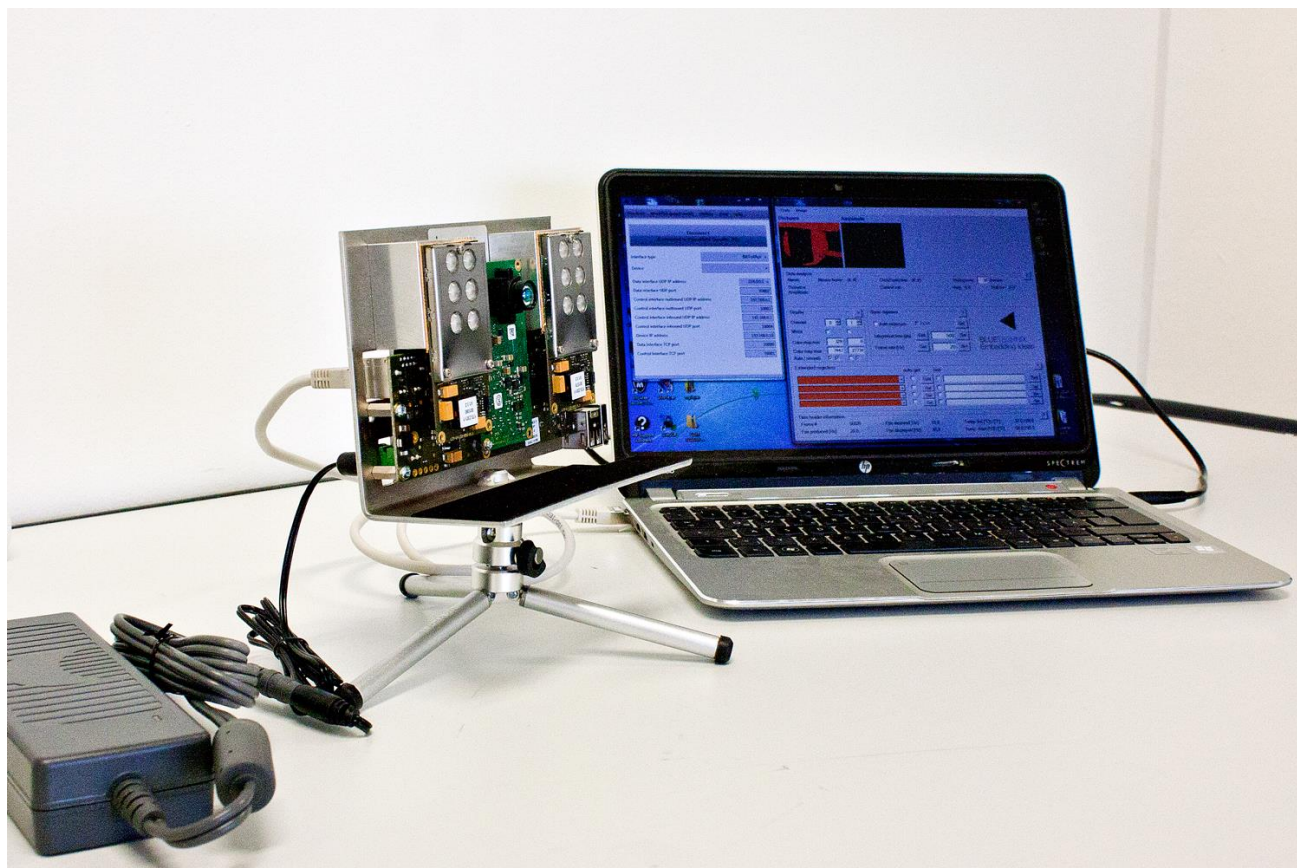


Figure 3-1: Sample scenario with Sentis3D-M521 Evaluation-Kit

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

4 System Requirements & Support

- Operating System: Microsoft Windows 7/8/8.1/10
- 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 <https://support.bluetechnix.at/wiki/>

5 Product History

5.1 Version Information

5.1.1 Sentis3D-M521

Version	Release date	Firmware Version
X-Grade	March 2015	

Table 5.1: Overview Sentis3D-M521 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	20150307	First draft
1	20150327	First released Issue
2	20150602	Wrong product name fixed Document version in header adjusted to new scheme
3	20160210	Removed BltTofSuite section
4	20160503	Product renamed in Sentis3D-M521

Table 5.3: Revision history