BLUETECHNIX
Embedding Ideas

Sentis3D-M421

Quick Start Guide

Version 3

Bluetechnix

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Sentis3D-M421-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 (Kit version)

- Sentis3D-M421
- CAT5/7 Ethernet Cable
- Quick Start Guide
- Power Supply *
- 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 camera!

1.2 Connecting your Sentis3D-M421

1.2.1 Connector Overview

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

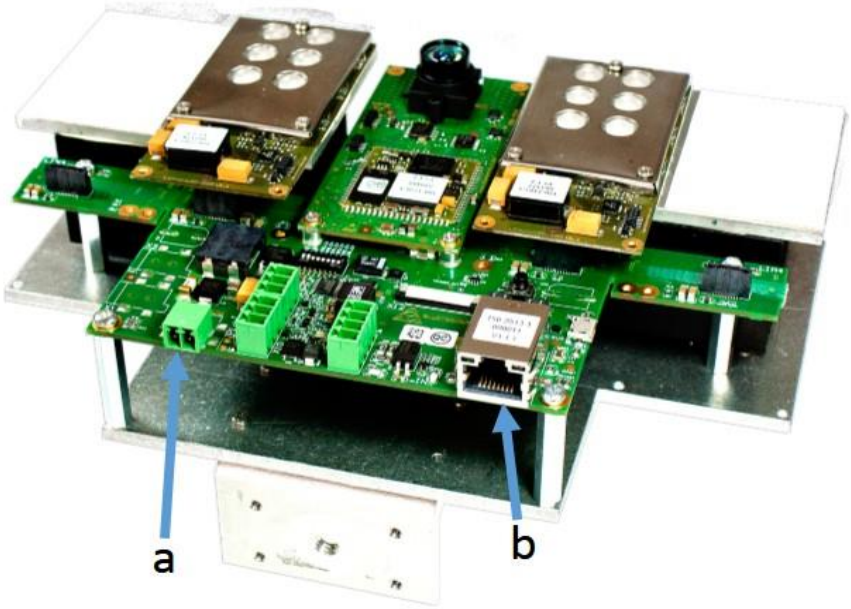

Figure 1-1: Sentis3D-M4521 connectors and interfaces

! **Note**
Please follow the next steps in the right order to get your Sentis3D-M421 up and running correctly.

1.2.2 Power Connector (a)

Pin assignment on the power connector:

Connector Type: 2.1mm ID / 5.5mm OD

Voltage: 18-30V

Polarity:

This pins are protected against wrong polarity.

Note
Use inherently limited power sources only!

The power supply connector is protected against wrong polarity but the Sentis3D-M421 will not work in case you don't use the correct polarity! If the Sentis3D-M421 doesn't work please check the power supply polarity first!

To ensure, that your Sentis3D-M421 works correctly, connect the Sentis3D-M421 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-M421.

Plug in the Ethernet cable **(b)** and connect your Sentis3D-M421 to your PC.

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1.3 Overview of the Setup

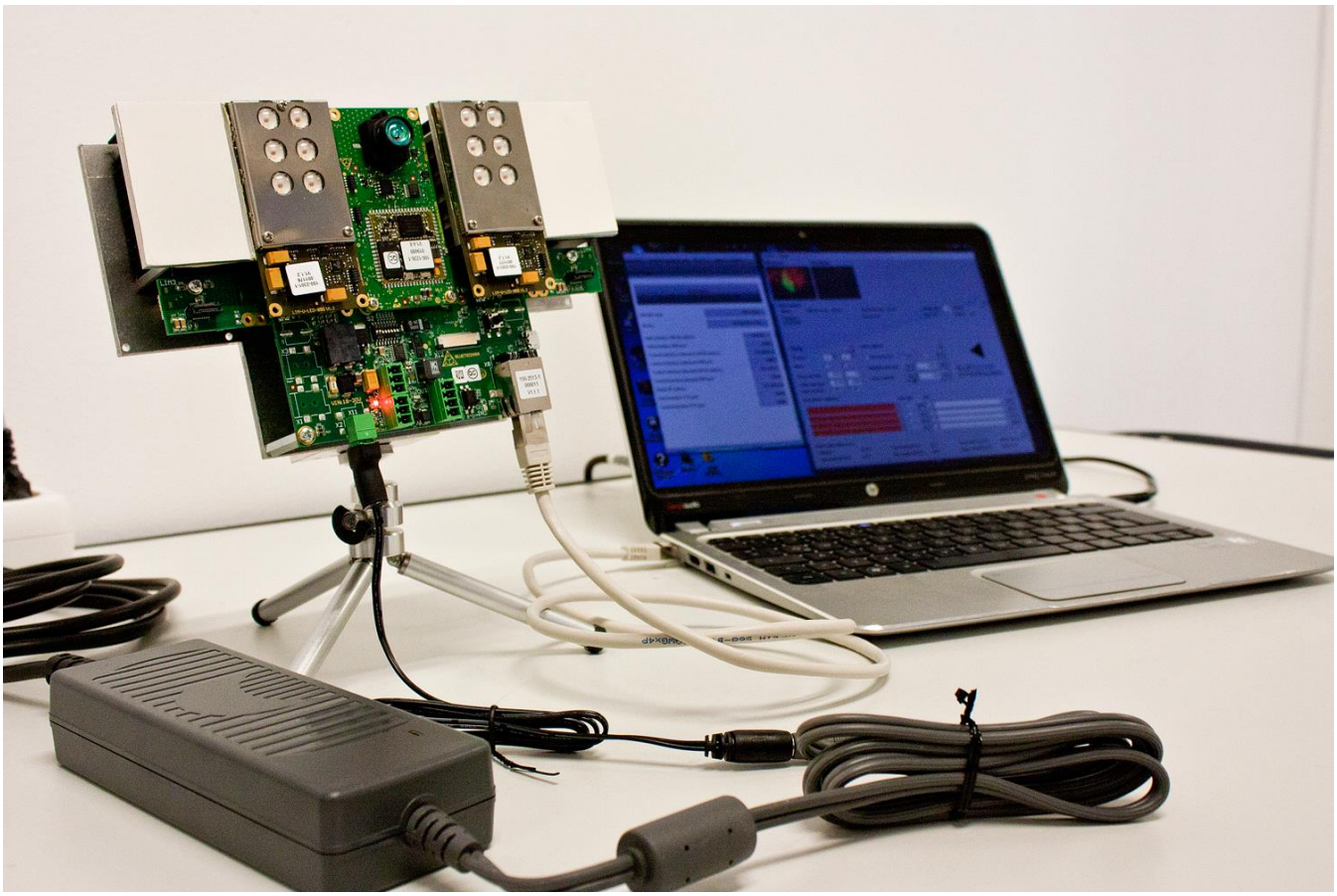

Figure 1-2: Sentis3D-M421 with connected power supply and Ethernet cable

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

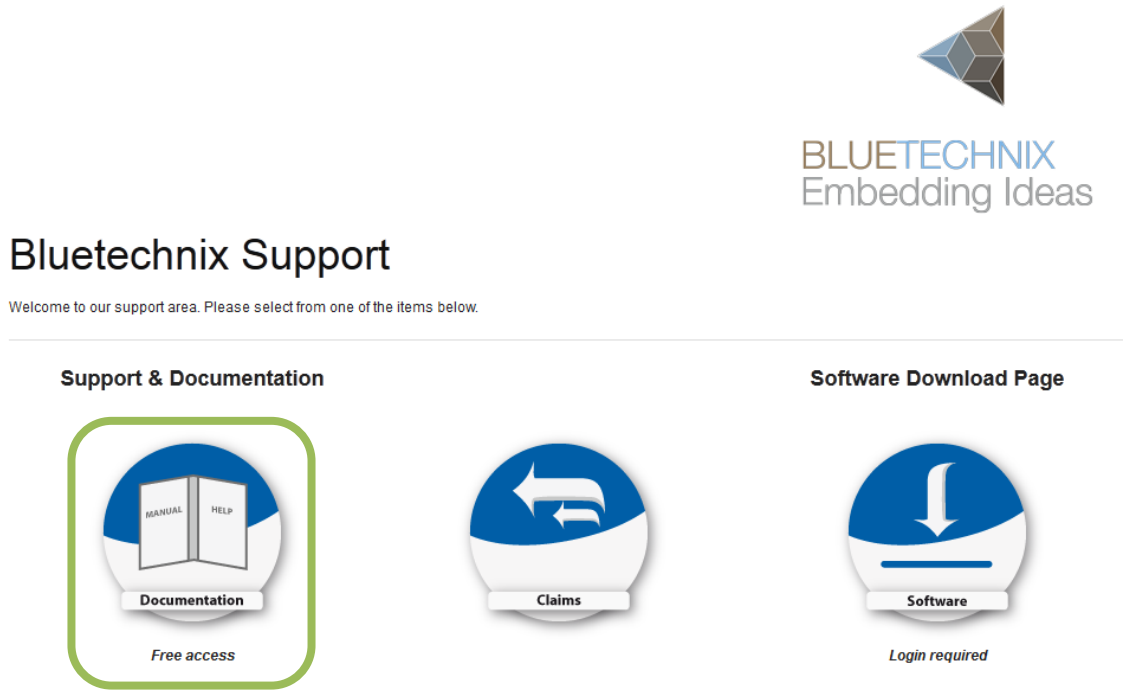

Figure 2-1: Bluetechnix support site

2.2 Start-up screen

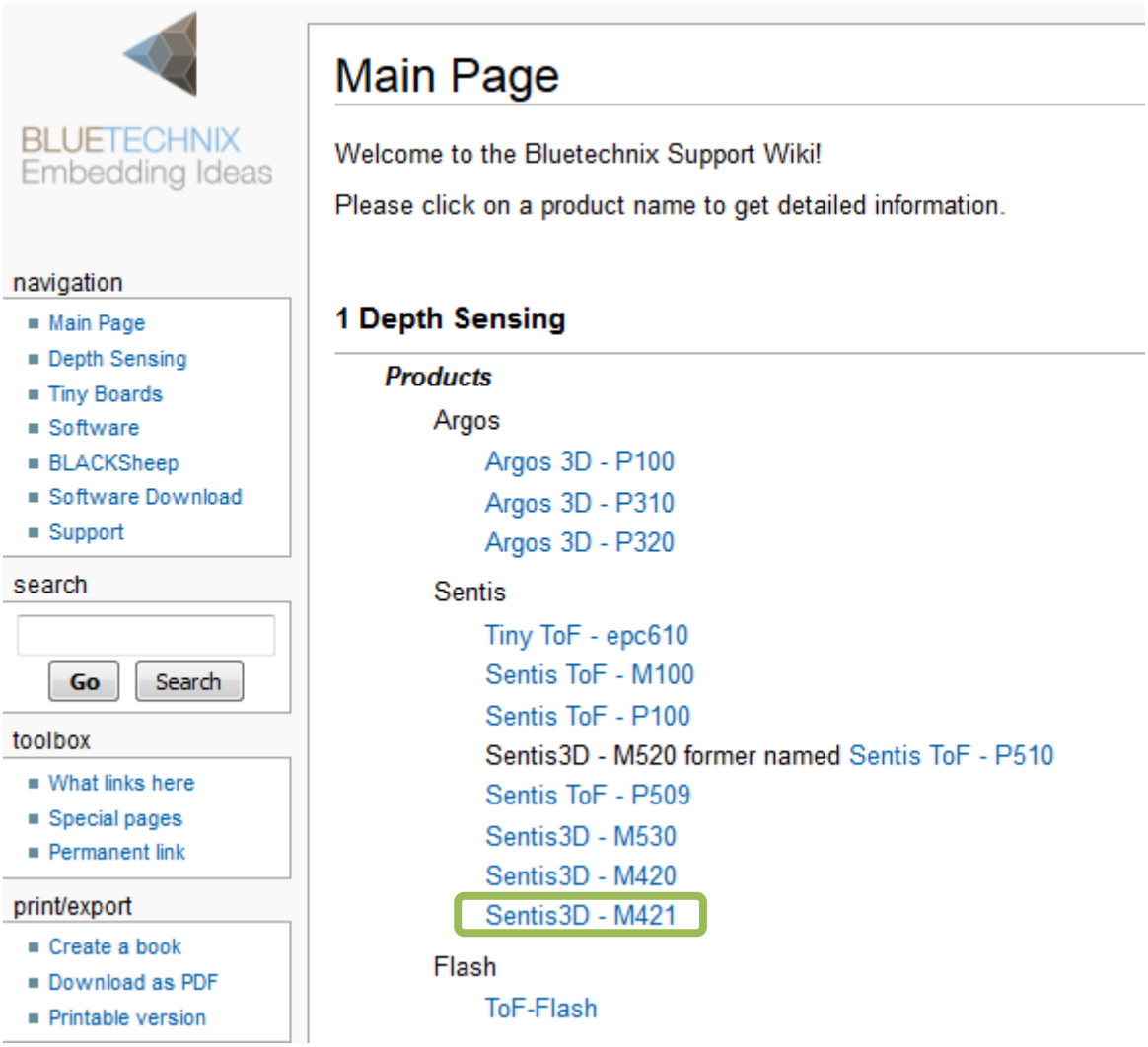

Figure 2-2: Start-up screen

Please select your product: Sentis3D-M421

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

2.3 Prepare your Network Interface Card (NIC)

Once you have connected your Sentis3D-M421 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-M421 uses IP-Address 192.168.0.10 with subnet mask 255.255.255.0.

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3 Start using your Sentis3D-M421 with 'BltTofSuite'

Using this software you can simply display the depth image and the amplitude image of the Sentis3D-M421. For a detailed introduction to the software, please read the Bluetechnix ToF Suite – Manual included in the support package.

Place the Sentis3D-M421on your desk approximately 50 cm in front of you.

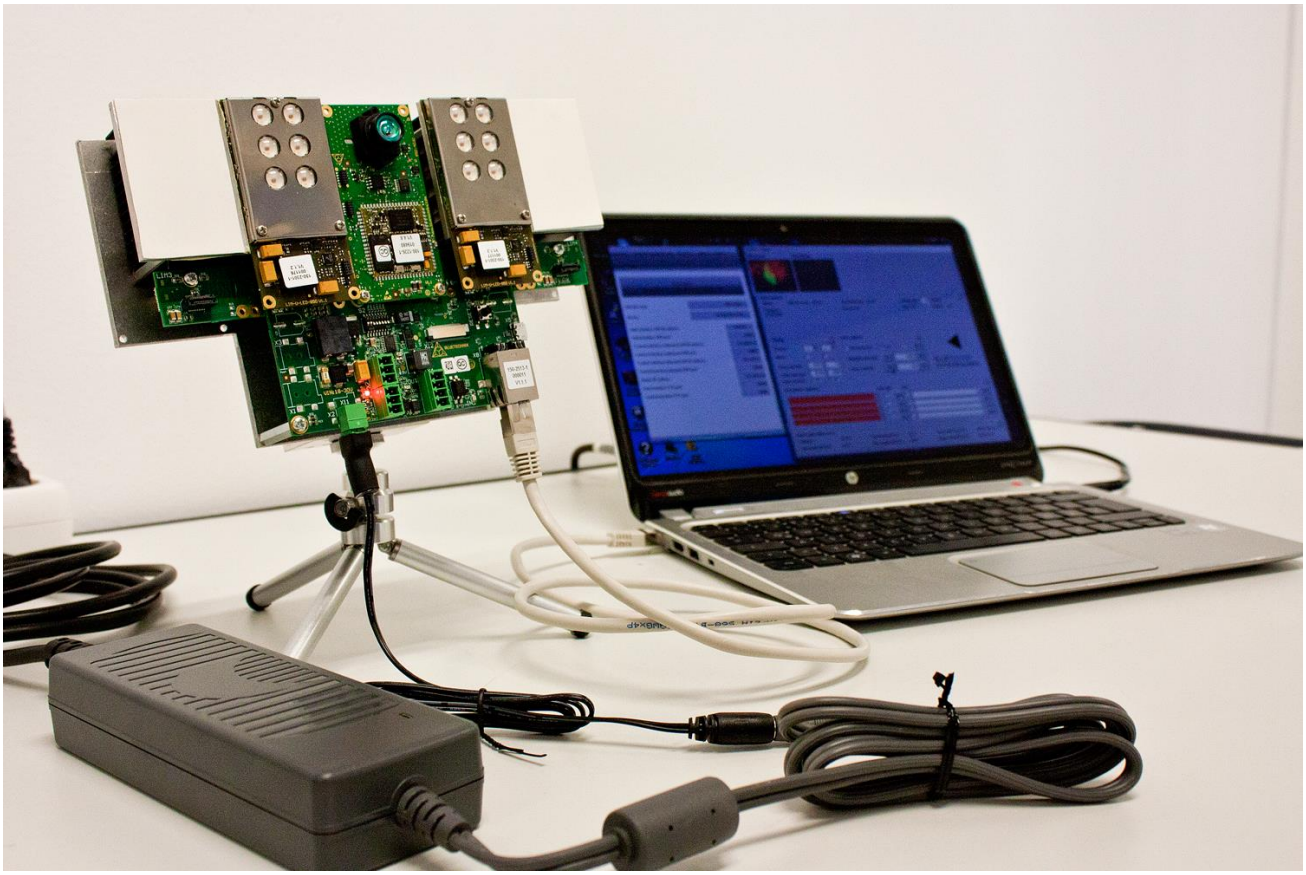

Figure 3-1: Sample scenario with Sentis3D-M421

Browse to the directory where you previously saved the software support package zip file. Unzip the software. Browse to the tools directory. There you find the BltTofSuite. Start the BltTofSuite.

On how to use this software, connect and evaluate your product, please refer to the Bluetechnix ToF Suite user manual included in the software support package.

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4 System Requirements & Support

- Operating System: Microsoft Windows 7/8/8.1/10
- 32 bit (x86) 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/

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5 Product History

5.1 Version Information

5.1.1 Sentis3D-M421

Version	Release date	Firmware Version
X-Grade	March 2015	

Table 5.1: Overview Sentis3D-M421 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	20160210	Removed BltTofSuite section
3	20160422	KIT renamed to Sentis3D-M421 Some typos corrected

Table 5.3: Revision history

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