

BLUETECHNIX Embedding Ideas

Sentis3D-M420

Quick Start Guide

Version 3







Bluetechnix

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Sentis3D-M420-Quick Start Guide

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Table of Contents

1	ι	Jnb	oxin	ng5	5
	1.1		In th	he box5	5
	1.2)	Con	nnecting your Sentis3D-M4205	5
	-	1.2.	1	Connector Overview	5
	-	1.2.2	2	Power Connector (a)	3
	-	1.2.3	3	USB Connector (b)6	3
	1.3	5	Ove	erview of the Setup7	7
2	[Dow	vnloa	ading the Evaluation Software	3
	2.1		Sup	pport website8	3
	2.2)	Star	rt-up screen	3
3	I	nsta	all U	SB Driver10)
4	ę	Star	t usi	ing your Sentis3D-M420 with 'BltTofSuite'17	,
5	ę	Syst	tem	Requirements & Support18	3
	5.1		Sup	pport	3
6	F	Proc	duct	History19)
	6.1		Vers	sion Information)
	6	5.1. ⁻	1	Sentis3D-M42019)
	6.2	2	Ano	omalies19)
	6.3	5	Doc	cument Revision History)



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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

- Sentis3D-M420
- USB 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 Sentis3D-M420!

1.2 Connecting your Sentis3D-M420

1.2.1 Connector Overview

- a. Power Supply
- b. USB



Figure 1-1: Sentis3D-M420connectors and interfaces

Note

Please follow the next steps in the right order to get your Sentis3D-M420 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



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-M420 will not work in case you don't use the correct polarity! If the Sentis3D-M420 doesn't work please check the power supply polarity first!

To ensure, that your Sentis3D-M420 works correctly, connect the device to the **24V DC / 90W** power supply using connector **(a)** and the DC-Jack as an adapter to the power supply and wait for approximately 20 seconds until the camera boots up.

1.2.3 USB Connector (b)

This standard USB connector provides a USB 2.0 interface to the Sentis3D-M420.

Plug in the USB cable (b) and connect your Sentis3D-M420 to your PC.



Last change: 22 April 2016 Version 3

1.3 Overview of the Setup



Figure 1-2: Sentis3D-M420 with connected power supply and USB cable



2 Downloading the Evaluation Software

Please point your browser to our support site <u>https://support.bluetechnix.com/</u> 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.



Figure 2-1: Bluetechnix support site

2.2 Start-up screen

You should see the startup screen:

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	Main Page
BLUETECHNIX	Welcome to the Bluetechnix Support Wiki!
Embedding Ideas	Please click on a product name to get detailed information.
navigation	
Main Page	1 Depth Sensing
 Depth Sensing Tiny Boards 	Products
Software	Argos
BLACKSheep	Argos 3D - P100
Software Download	Argos 3D - P310
 Support 	Argos 3D - P320
search	Sentis
	Tiny ToF - epc610
Go Search	Sentis ToF - M100
	Sentis ToF - P100
toolbox	Sentis3D - M520 former named Sentis ToF - P510
What links here	Sentis ToF - P509
 Special pages Permanent link 	Sentis3D - M530
	Sentis3D - M420
print/export	Sentis3D - M421
Create a book	Flash
 Download as PDF Printable version 	ToF-Flash

Figure 2-2: Product main page

Please select your product: e.g. Sentis3D-M420

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



3 Install USB Driver

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At the first time you have plugged in your Bluetechnix device you have to install the driver which can be found in the support package.

Open the Windows "Device Manager" in the "Control Panel"

Control Panel 🕨	System and Security 🔸 System		✓ 4 Search Control Panel
Control Panel Home Device Manager Kemote settings System protection Advanced system settings	View basic information Windows edition Windows 7 Professional Copyright © 2009 Microso Service Pack 1 Get more features with a n	ft Corporation. All rights reserved.	e e
See also Action Center Windows Update	System Rating: Processor: Installed memory (RAM): System type: Pen and Touch: Computer name, domain, and Computer name: Full computer name: Computer description: Domain: Windows activation	4,3 Your Windows Experience Index needs to be refreshed Intel(R) Core(TM)2 Duo CPU E8400 @ 3.00GHz 3.00 GHz 4,00 GB (3,23 GB usable) 32-bit Operating System 32-bit Operating System No Pen or Touch Input is available for this Display workgroup settings Setting System	€ ©Change settings
Performance Information and Tools	Windows activation Windows is activated		askfor denuine

Figure 3-1: Windows Device Manager



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Once Device Manager is opened, right click "*Bluetechnix – Argos3D – P100*" in "*Other Devices*" and click "*Update Driver Software*". The correct device name will be applied after the driver installation.

🛃 Device Manager				
File Action View Help				
 Computer Disk drives Display adapters DVD/CD-ROM drives Floppy drive controllers Human Interface Devices IDE ATA/ATAPI controllers IEEE 1394 Bus host controllers IEEE 1394 Bus host controllers IEEE 1394 Bus host controllers Mice and other pointing devices Mice and other pointing devices Network adapters Other devices Bluetechnix - Argos 3D - P100 				
Portable Devices Update Driver Softw Ports (COM & LPT)	are			
Processors				
Sound, video and game controll				
System devices Scan for hardware cl	hanges			
Universal Serial Bus controllers Properties				
Launches the Update Driver Software Wizard for the				

Figure 3-2: Device Manager – Update Driver Software



Then choose "Browse my computer for driver software".

Last change: 22 April 2016 Version 3

Jupdate Driver Software - Bluetechnix - Argos 3D - P100	x
How do you want to search for driver software?	
Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.	
Browse my computer for driver software Locate and install driver software manually.	
	Cancel

Figure 3-3: Locate and install driver software manually





Point the driver install utility to "*driver**windows*\" on your local hard drive. Check "*Include subfolders*" and click "*Next*".

Update Driver Software - Bluetechnix - Argos 3D - P100	
Browse for driver software on your computer	
Search for driver software in this location:	
C:\Argos3D-P100\driver\windows	
Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.	
Next Cancel	

Figure 3-4: Browse for driver software on your computer



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If the following question arises, choose to lay your trust upon Bluetechnix GmbH.



Figure 5: Always trust software from "Bluetechnix GmbH"





The Update Driver Software Utility finishes the driver installation showing following Window.

	×
🔶 📱 Update Driver Software - Bluetechnix ToF Device	
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
Bluetechnix ToF Device	
	Close

Figure 3-6: Driver Software successfully installed



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After successful driver installation there should be a new device in the device manager named "*Bluetechnix - Argos 3D - P100*".

🛁 Device Manager 📃 💷	x
File Action View Help	
	*
a 🚽 Bluetechnix USB Devices	
🚽 🖶 Bluetechnix ToF Device	
⊳ I III Computer	Ξ
Disk drives	
Display adapters	
DVD/CD-ROM drives	
Floppy drive controllers	
De ATA/ATAPI controllers	
🔋 🖉 IEEE 1394 Bus host controllers	-
	-

Figure 3-7: Bluetechnix PMD Devices in Device Manager

Congratulations

You now have successfully installed your Sentis3D-M420 on your PC.



Last change: 22 April 2016 Version 3

4 Start using your Sentis3D-M420 with 'BltTofSuite'

Using this software you can simply display the depth image and the amplitude image of the Sentis3D-M420. For a detailed introduction to the software, please read the Bluetechnix ToF Suite User Manual included in the support package.

Place the Sentis3D-M420 on your desk approximately 50 cm in front of you.



Figure 4-1: Sample scenario with Sentis3D-M420

Browse to the tools directory of your unzipped software support package. 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.



Last change: 22 April 2016

Version 3

Quick Start Guide - Sentis3D-M420

5 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

5.1 Support

For answers to common questions, troubleshooting steps and further documentation visit our Bluetechnix support website <u>https://support.bluetechnix.at/wiki/</u>



6.1 Version Information

6.1.1 Sentis3D-M420

Version	Release date	Firmware Version	
X-Grade	March 2015		

Table 6.1: Overview Sentis3D-M420 product changes

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

6.2 Anomalies

Version	Date	Description
0.0.0		No anomalies reported yet.

Table 6.2: Product anomalies

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

6.3 Document Revision History

Version	Date	Document Revision
0	20150307	First draft
1	20150327	First released Issue
2	20160210	Removed BltTofSuite section
3	20160422	Product renamed in Sentis3D-M420
		Some typos corrected

Table 6.3: Revision history

