

## Note:

This document contains the basic information for operating the Leica 3D Disto.

This description is for operation system Windows 7. If your computer is running on operation system Windows 8 or 8.1 choose the corresponding document.

Please note that an internet connection is required for update and installation.

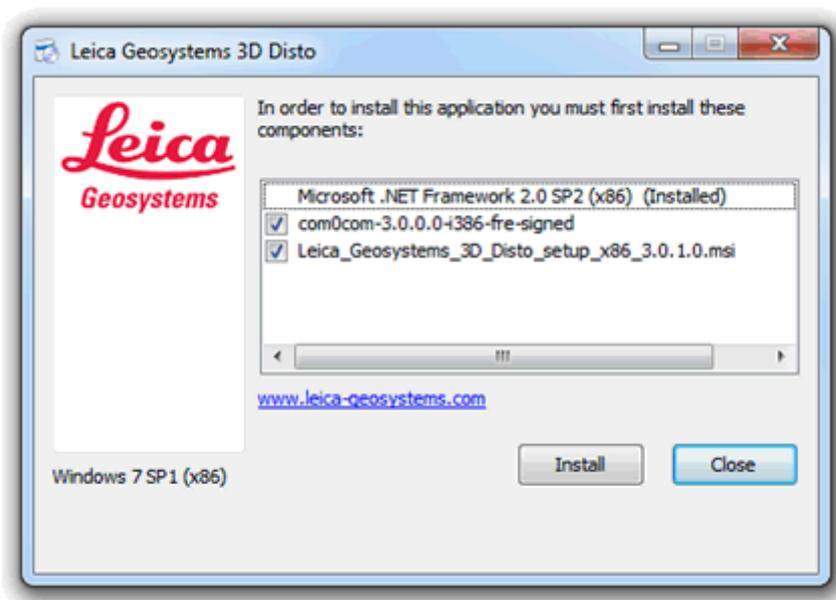
Be sure to have your PC updated with the latest drivers and other components.

*The following description shows an update from an earlier version to 3.0.*

*The following content is only required to install the 3D Disto user interface on a PC with Windows operating systems. It does not affect the functionality of the 3D Disto sensor or the Control Unit.*

### 1 STANDARD INSTALLATION

It is not necessary to uninstall previous versions. Execute Leica\_Geosystems\_3D\_Disto\_3.0.x.x\_setup.exe out of the folder 01\_3DDisto\_ForWindows and follow the instructions in the setup routine.

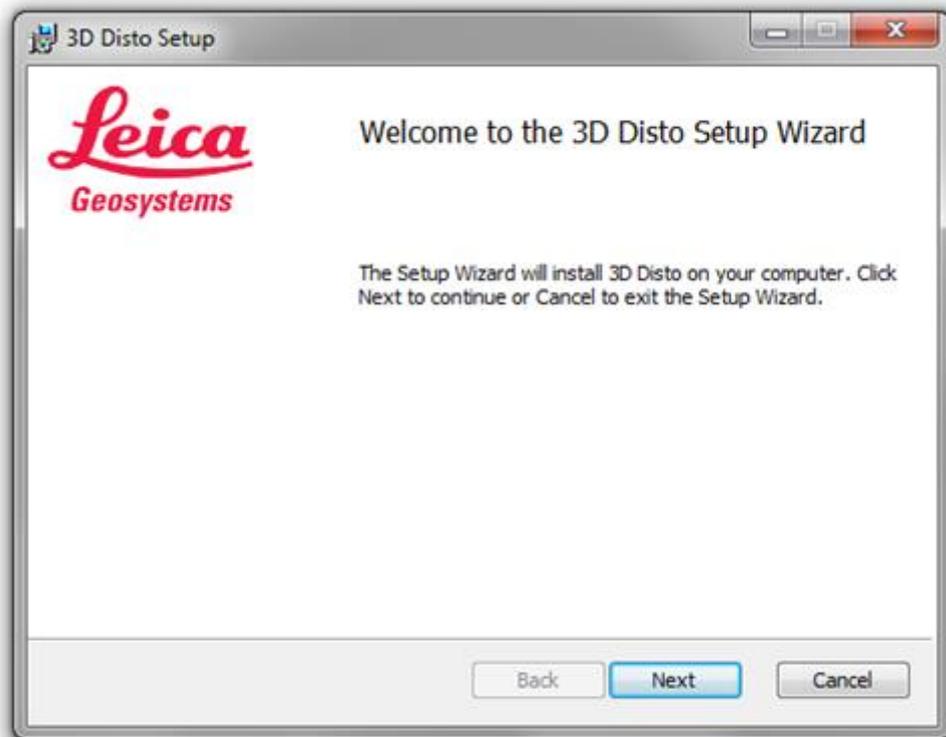


## Note:

installing com0com is necessary for steering 3D Disto with the GSI command interface or having 3<sup>rd</sup> party software communicating with 3D Disto using the GSI interface protocol. Find more information about GSI in this folder:

02\_3DDisto\_ExternalGSI\_Interface

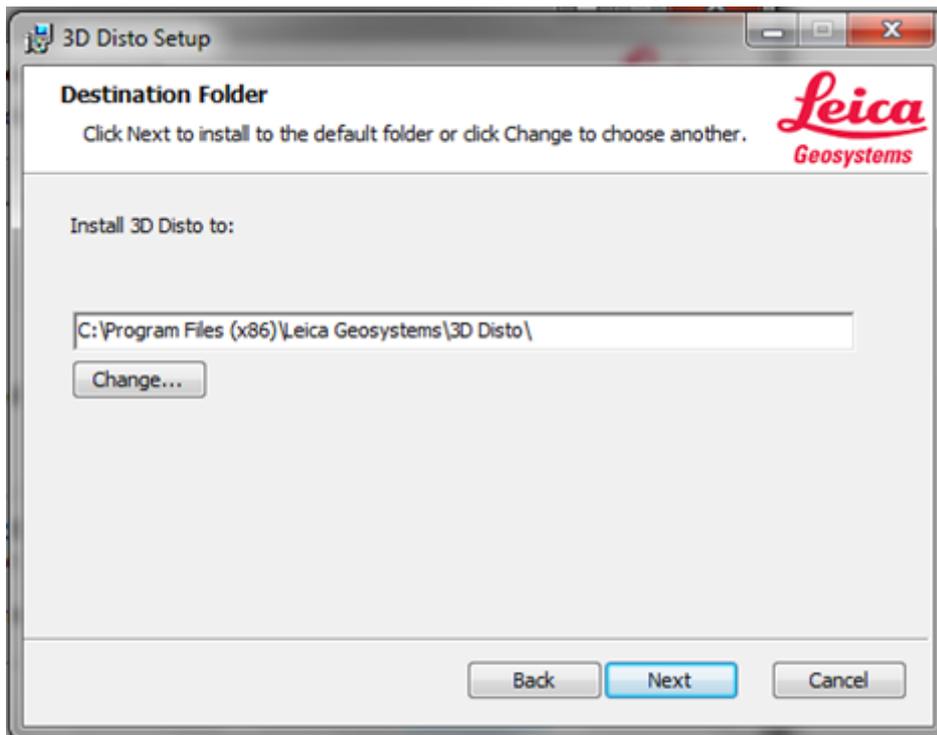
Press 'Install'.



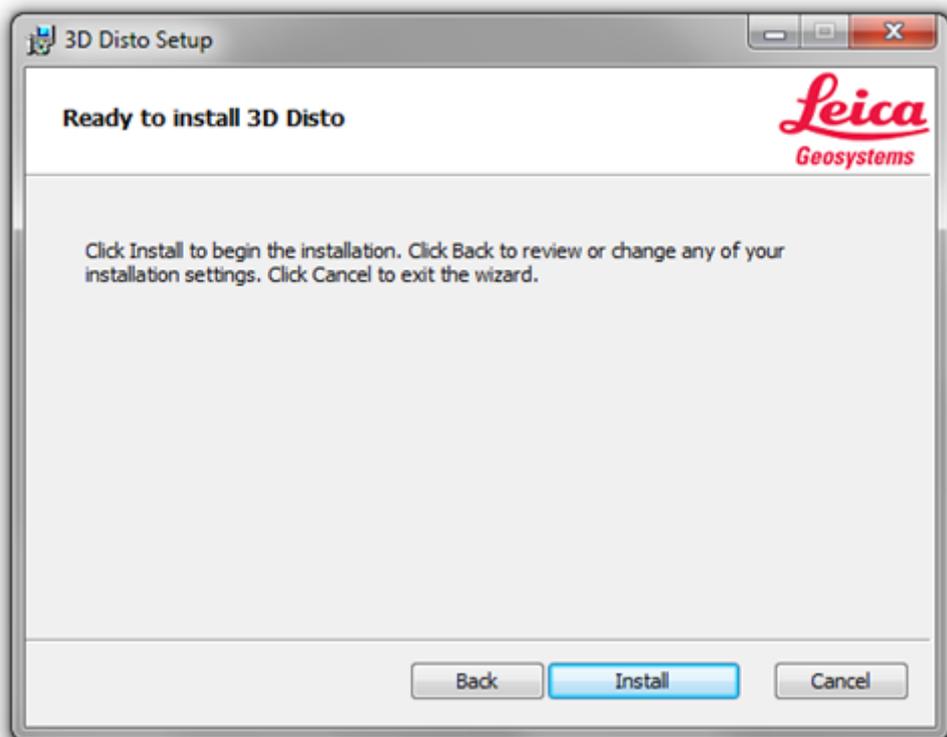
Press 'Next'



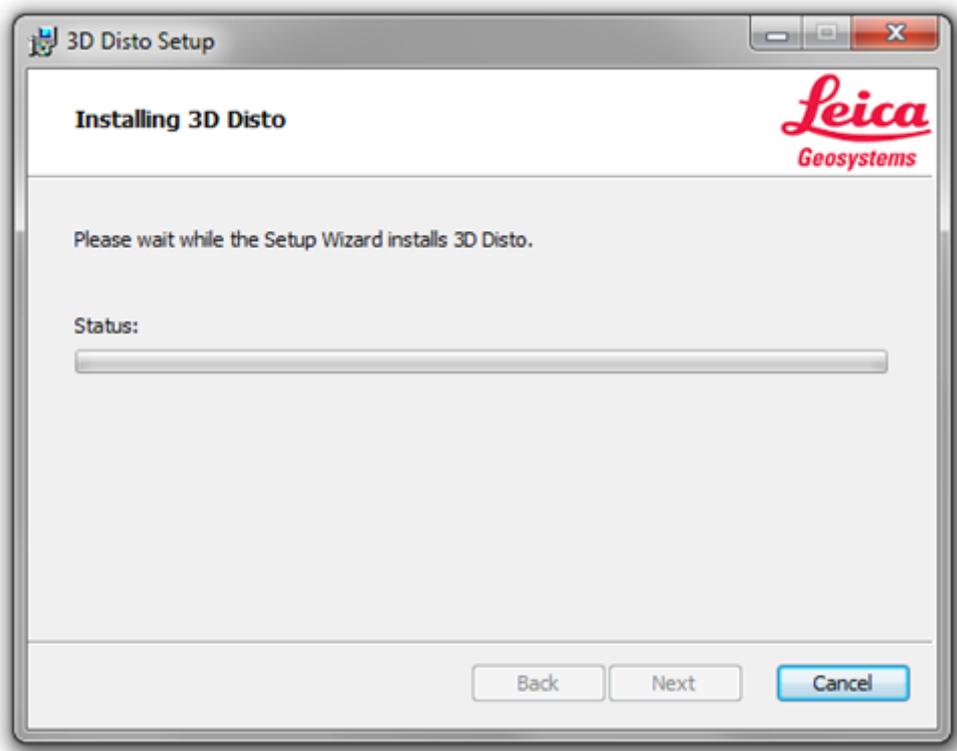
Read the license agreement carefully.  
Accept the license agreement and press 'Next'.



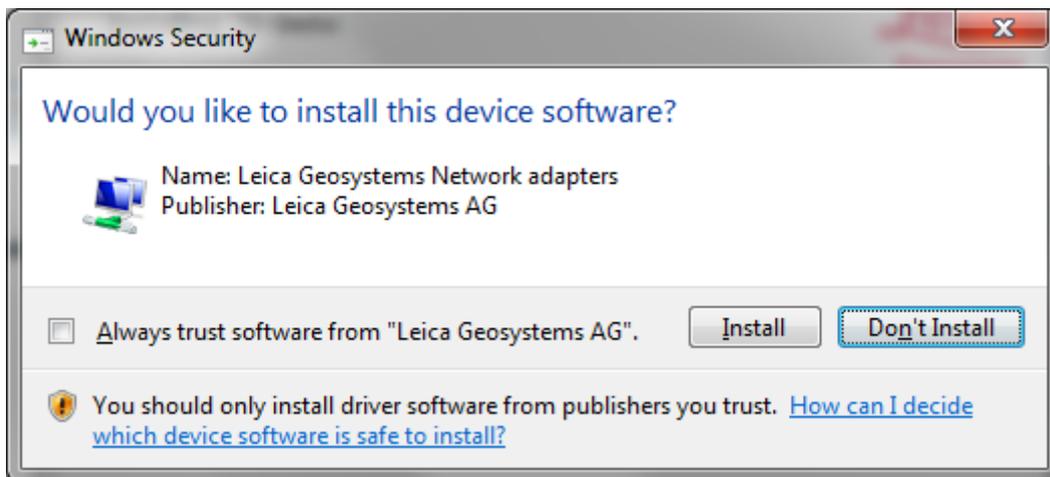
Select the installation folder and press 'Next'.



Press 'Install'.



Wait until installation has finished.

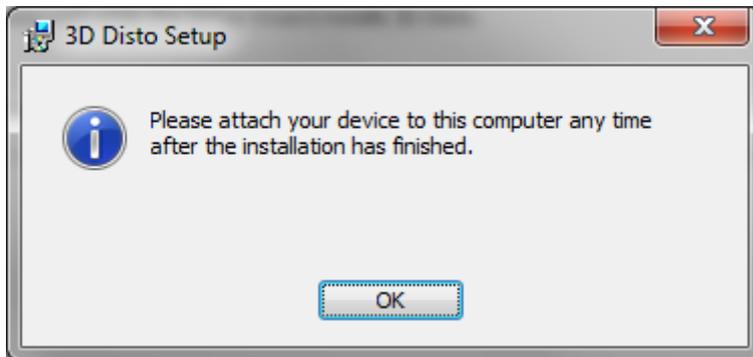


Press "install"

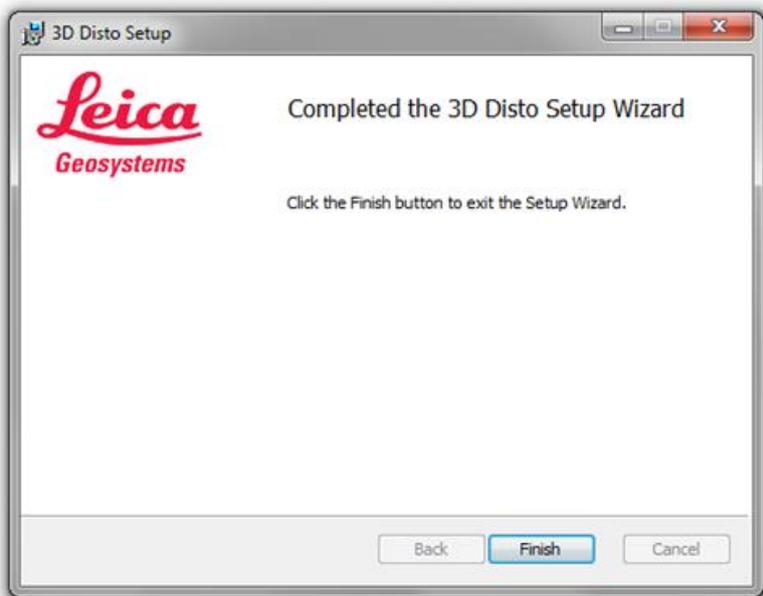
If you have chosen to install com0com (required if GSI commands are going to be used), the setup will now try installing driver for COM ports. Thus some Windows hardware setup messages pop up. Accept the installations.



Default port pair is COM69 and COM70.  
3D Disto talks via COM69, external software should connect to COM70.



Press OK

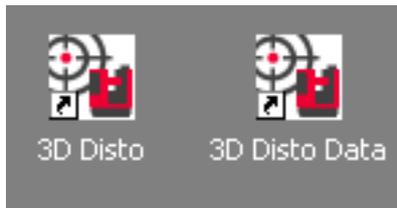


Press 'Finish'



Press 'OK'.

After a successful installation you find these two icons on your desktop:



The left one starts the software, the right one contains folders for data import, export, updates and licenses.

## **2 FURTHER INSTALLATIONS (OPTIONAL)**

Depending on your PC's individual state it is possible that some other necessary installations are started automatically during the setup or after connecting the 3D Disto for the first time, such as com0com or Linux USB Ethernet RNDIS driver.

## **3 WLAN CONNECTION**

Now run the 3D Disto software by double clicking the 3D Disto desktop icon.



If you want to work wireless you need to enable a USB cable connection if you start the software for the first time. Switch the 3D Disto on, plug in the USB cable and press this key on the start screen:



...or execute Menu → Device → Connect 3D Disto → USB

USB connection was successful if the USB icon appears in the status bar:



Now the WLAN channels are synchronized. Start the WLAN connection via:  
Menu → Device → Connect 3D Disto → WLAN

In future you can start WLAN connection already on the start screen:



WLAN connection is enabled if the WLAN icon appears in the status bar:



If failed, you need USB connection again to change some settings. First step in case of WLAN trouble is to change the WLAN channel: Go to

Menu → Device → WLAN channel and choose another channel.

Then execute

Menu → Device → Connect 3D Disto → WLAN

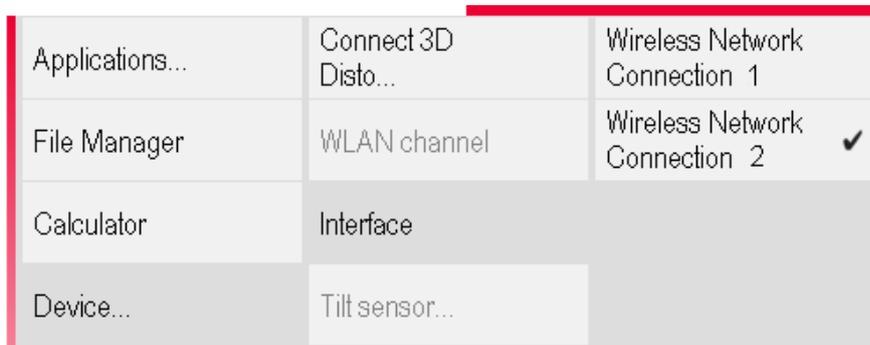
If this still does not work there may be other devices on the same channel. Change the channel until WLAN connection works.

*Advice:*

*Depending on your PC's software state it is possible that some necessary WLAN drivers do not work properly with the 3D Disto. We recommend to update your Windows operating system permanently. WLAN problems that you have today may disappear after the next Windows update.*

To deal with this problem the Leica 3D Disto software offers the optional use of a USB WLAN stick for WLAN connection. Their drivers are suitable and an existing connection to other devices or to the internet must not be cut.

To establish WLAN connection via USB stick quit the Leica 3D Disto software, plug in the WLAN USB stick and re-start the 3D Disto software. In the menu you find a list of all WLAN adaptors:

A screenshot of the 3D Disto software menu. The menu is displayed in a window with a red title bar. It contains several items: 'Applications...', 'File Manager', 'Calculator', and 'Device...'. The 'Device...' item is expanded, showing a sub-menu with 'Connect 3D Disto...', 'WLAN channel', 'Interface', and 'Tilt sensor...'. The 'WLAN channel' sub-item is further expanded, showing a list of wireless network connections: 'Wireless Network Connection 1', 'Wireless Network Connection 2', and 'Wireless Network Connection 3'. 'Wireless Network Connection 2' is selected, indicated by a checkmark in the right margin.

Applications...	Connect 3D Disto...	Wireless Network Connection 1
File Manager	WLAN channel	Wireless Network Connection 2 ✓
Calculator	Interface	
Device...	Tilt sensor...	

Select the adaptor that corresponds to the WLAN stick. Then execute MENU → Device → Connect 3D Disto → WLAN again.

*Always shut down the 3D Disto software properly or disconnect WLAN connection via menu at the end of your measurements. In case of interrupted power supply or other rupture you may have to start WLAN connection manually after starting the software for the next time.*

If WLAN connection failed again, connect via USB again and switch to some other channels to find a free one, as per description.

If WLAN connection still can't be activated please check the following:

- USB connection must have been working before first WLAN connection
- actual version of 3D Disto PC software should be installed
- An external WLAN card like USB-WLAN-stick can only be used with firmware version 2.1 or later. WLAN settings must be done manually if you work with Windows XP. See separate document.
- check that no other devices are working on the same channel
- some PCs have settings that reset WLAN connections to standard values automatically to avoid problems with the local network. After connection has failed please check if these settings have been reset.
- unplug internet connection, disable fire wall
- Please consider the advice: "The wireless zero configuration is required to run, eventually you have to activate it, see at <http://tech.ifelix.net/2007.html> "

#### 4 LICENSE KEYS

Execute Menu > Device > Software > License to enter the license keys. There are four active protections:

One protection for the Windows version of 3D Disto software. Without this license, the DIST key is blocked and no measurements can be executed.

3 more licenses are available for the features "Projector", "Roomscan", "Toolkit & Location" within the 3D Disto software.

If the 3D Disto is registered in myWorld, you can load the licenses in a key file. Save this file in the license folder under 3D Disto Data directory (desk-top icon available).

Skip step 5 if you don't want to use the GSI interface in addition.

#### 5 GSI COMMANDS FOR INTERFACES

It is possible to steer the system via external commands given in folder

02\_3DDisto\_ExternalGSI\_Interface

There you find **3D\_Disto\_Online** Manual plus extensions

To check a successful installation of all components start the 3D Disto software and the Excel file COM\_ScriptTest.xls

If 'a' was send successfully via any sort of terminal program, the header line of the 3D Disto changes from 'Measure' to 'GSI'. It might be necessary closing open measurements on the 3D Disto before.

