

MIRA NEO
Desktop application software
for A1040 MIRA 3D ultrasonic tomograph

Taking into operation



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1. Introduction

The goal of this description is to show a setup process of a MIRA NEO desktop application. The full user manual may be found on the ACS-Solutions GmbH website <https://acs-international.com/instruments/a1040-mira-3d/> or under the link: <http://subscribe.acs-international.online/product/download/1>.

The software is protected by the electronic license key that is provided by the vendor after purchasing. For getting the formal quote, invoice, and license key, please, contact the Acoustic Control Systems – ACS Group via e-mail: sales@acs-international.com. Alternatively, you can contact one of our official sales representatives in your region that are listed on the website www.acs-international.com (chapter “Where to buy”).

2. System requirements

The minimum system requirements for the MIRA NEO desktop application are as follow:

CPU	Dual Core 2 GHz and higher
RAM	8 GB and more
Operation System	Windows10 64bit
Graphical processing unit GPU	NVIDIA GPU, minimum 2 GB RAM, OpenGL version 4.6 or higher, Maxwell or next generation architecture

3. Installation instructions

Download the software installation package MIRA NEO from the website <https://acs-international.com/instruments/software-and-applications/software/mira-neo-application-software/> (chapter “Download”).

After the download completion find the installation package in your local download folder and continue with the installation.

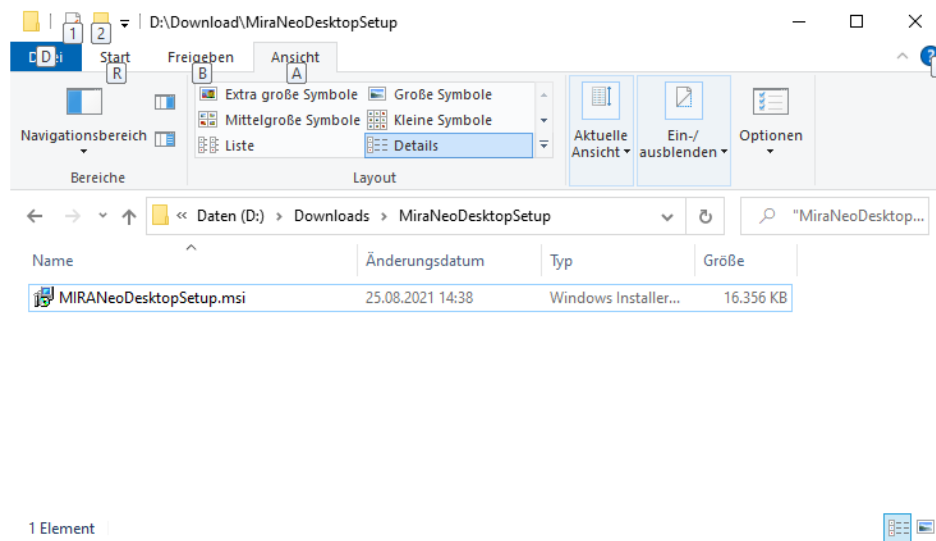


Figure 1 Setup file.

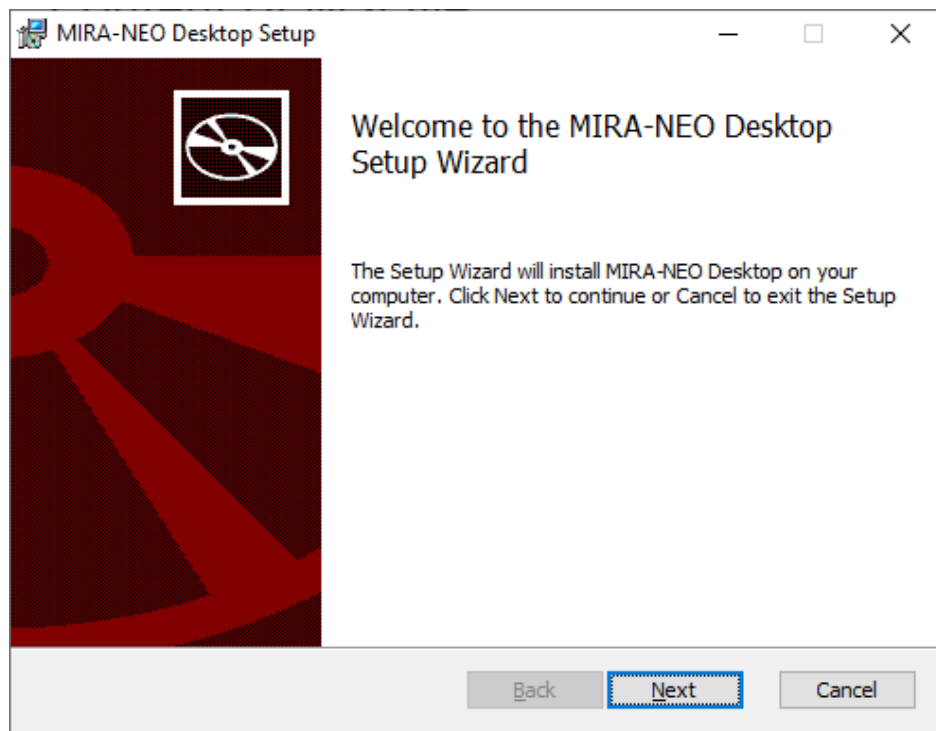


Figure 2 Welcome screen of the setup.

On the beginning of setup, the license will be checked.

If the license has not been found, the user will be requested to activate his copy.

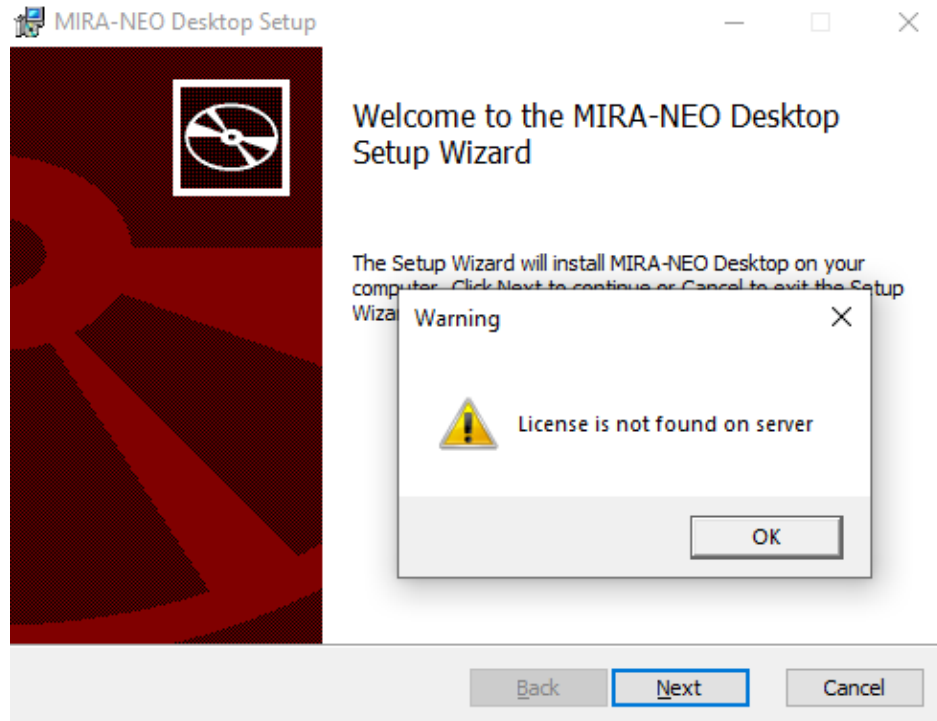
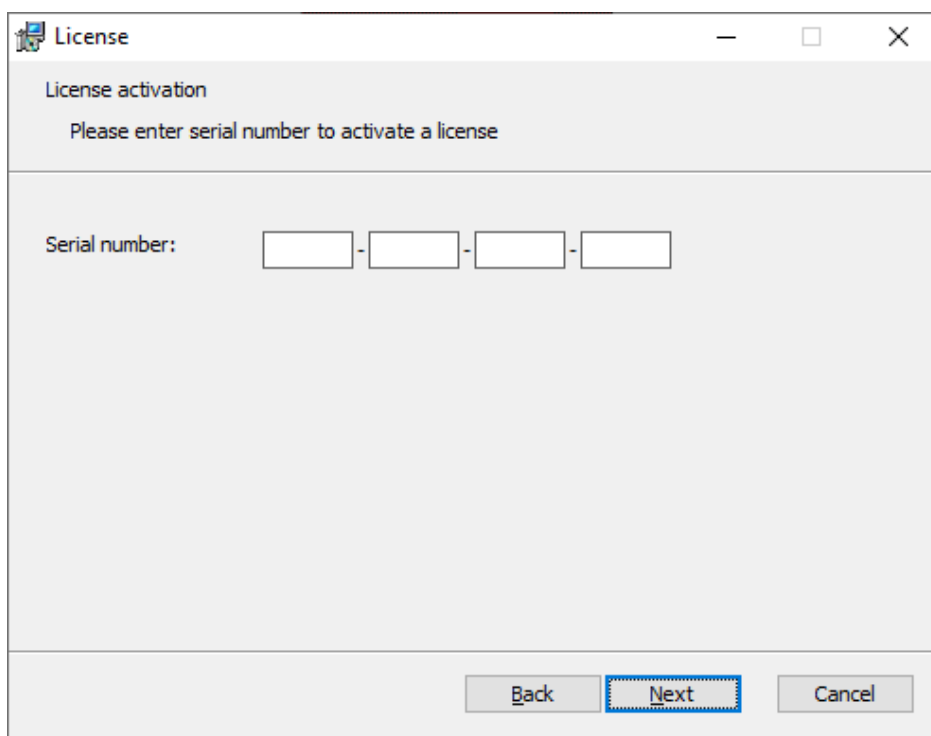


Figure 3 License check.

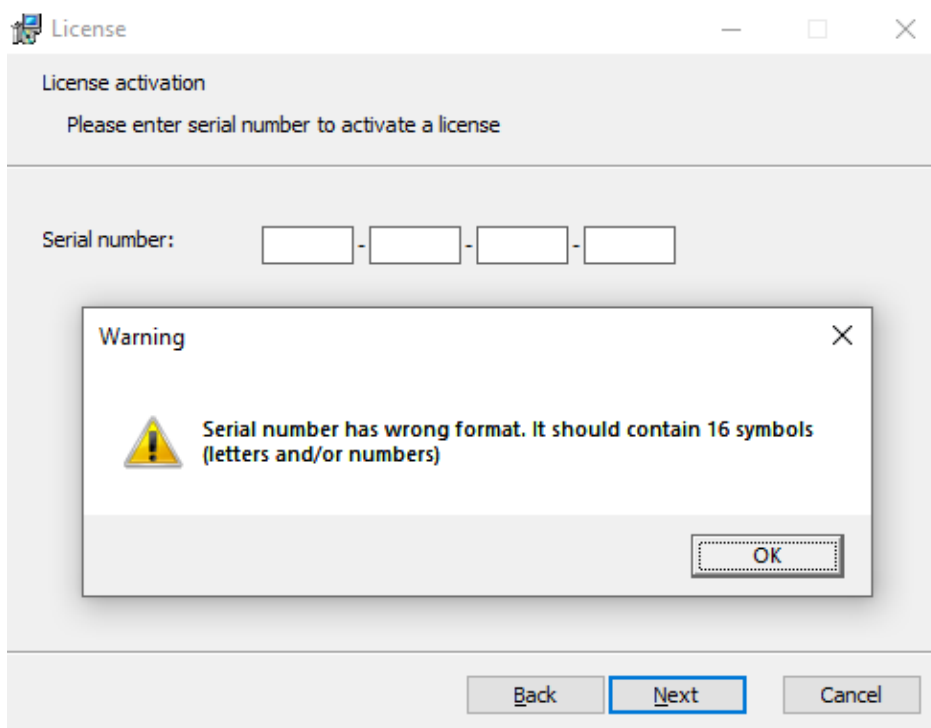
Here the user is requested to enter the license key (16 symbols) provided by the vendor.

Please find possible error messages when entering the incorrect license key in following figures.



The image shows a 'License' dialog box with a title bar containing a small icon, the text 'License', and standard window controls (minimize, maximize, close). The main area is titled 'License activation' and contains the instruction 'Please enter serial number to activate a license'. Below this, there is a label 'Serial number:' followed by four empty text boxes separated by hyphens. At the bottom right, there are three buttons: 'Back', 'Next' (which is highlighted with a blue border), and 'Cancel'.

Figure 4 Request to enter the serial key.



The image shows the same 'License' dialog box as in Figure 4, but with an additional 'Warning' dialog box overlaid on top. The 'Warning' dialog box has a title bar with the text 'Warning' and a close button. It contains a yellow warning triangle icon and the text 'Serial number has wrong format. It should contain 16 symbols (letters and/or numbers)'. At the bottom right of the warning box is an 'OK' button. The 'License' dialog box behind it is partially obscured, but the 'Next' button remains highlighted.

Figure 5 Ill-formatted serial.

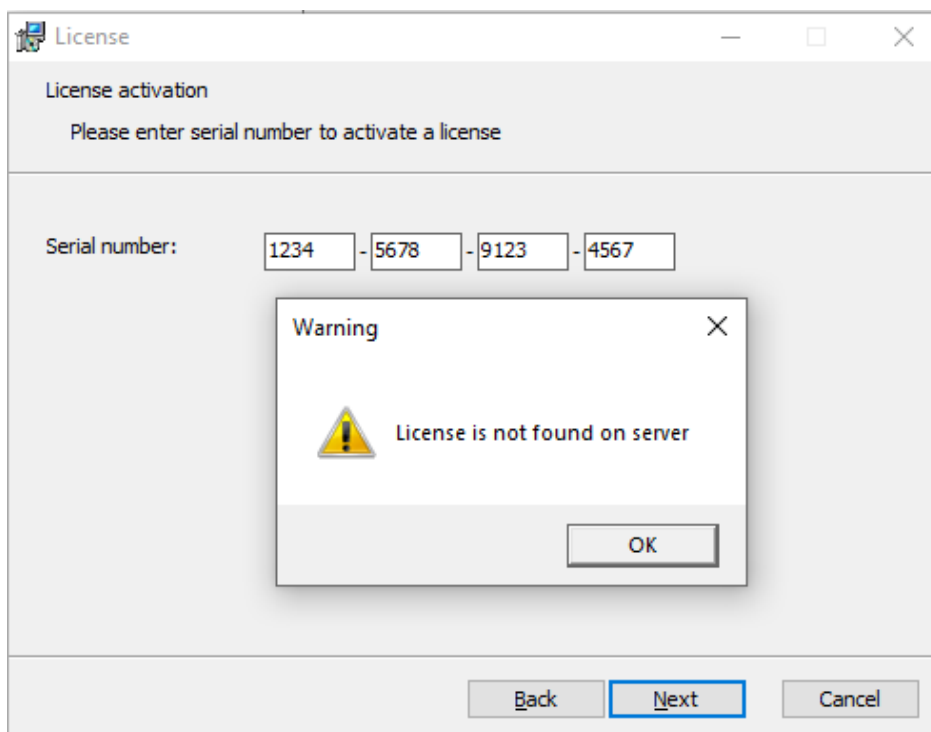


Figure 6 Wrong/non-existing serial number.

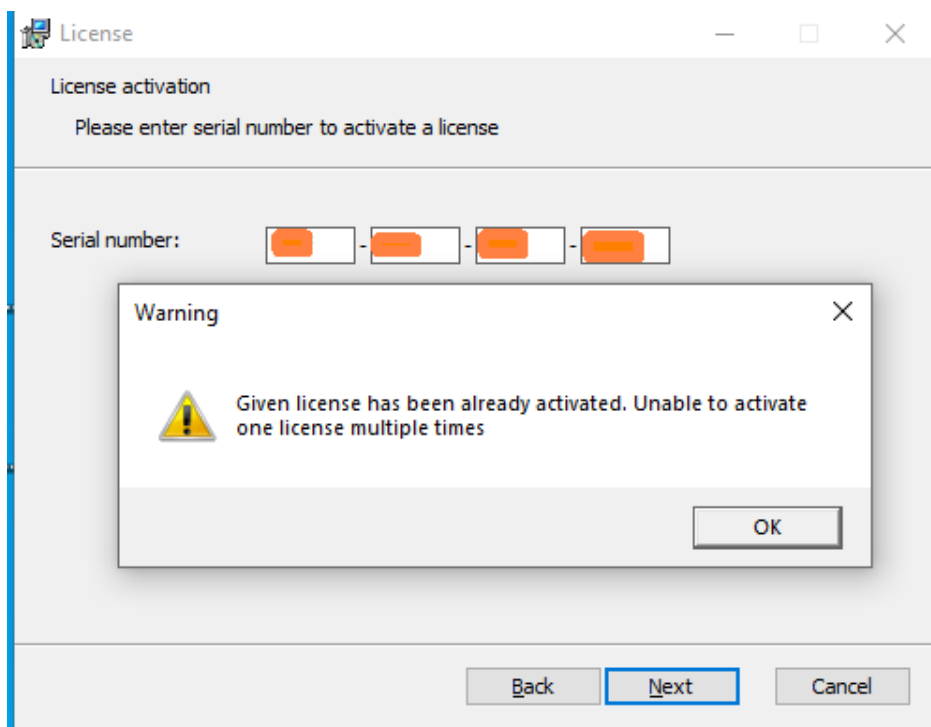


Figure 7 License has been activated already.

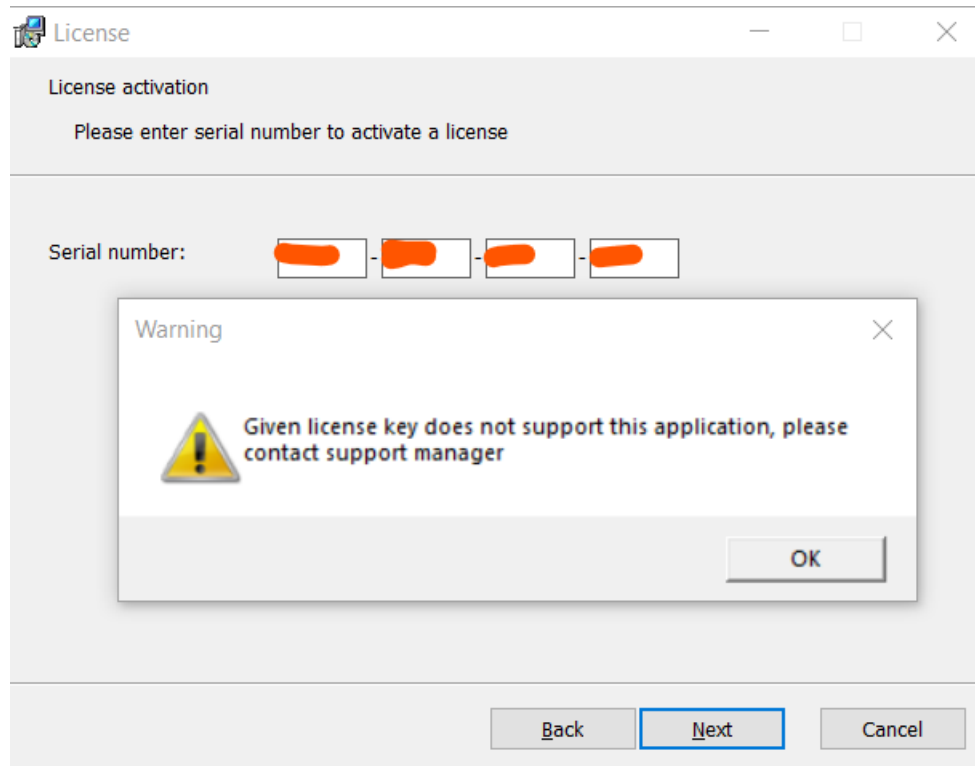


Figure 8 License does not support A1040 MIRA 3D desktop application.

After entering correct serial number, the activation of the license occurs on the license server of ACS. For successful activation, the user PC must have the internet connection.

Then the user is requested to specify a folder where measurement data will be stored. By default, it is "C:\MIRANEO". By pressing "Browse" one can select the folder in a dialog window.

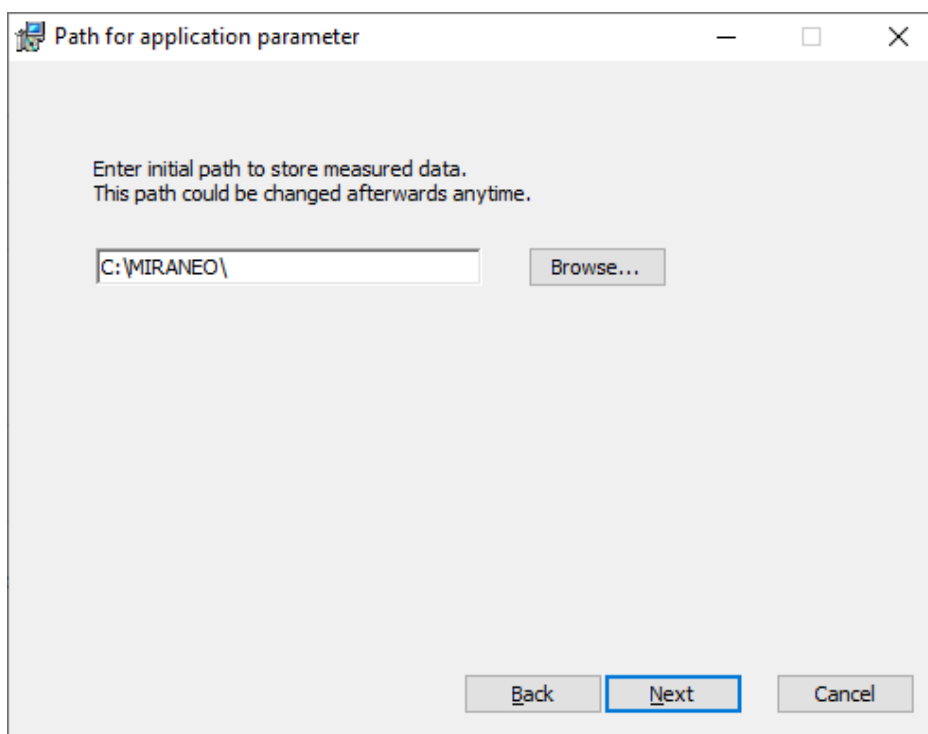


Figure 9 Path to data folder.

After pressing “Next” the installer will check if the path can be used. If it is not valid or the user has not enough permissions to write to this path a warning dialog will be shown. In the window you can find the cause of the problem. Until the proper path is not specified further installation is not possible.

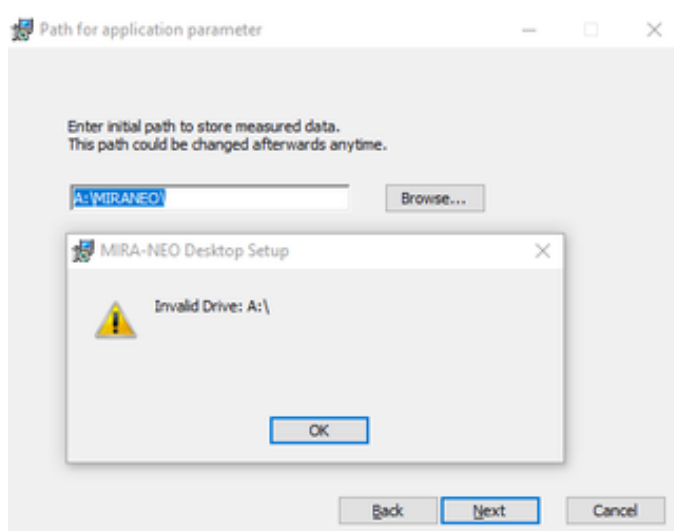


Figure 10 Path to data folder: drive does not exist or inaccessible.

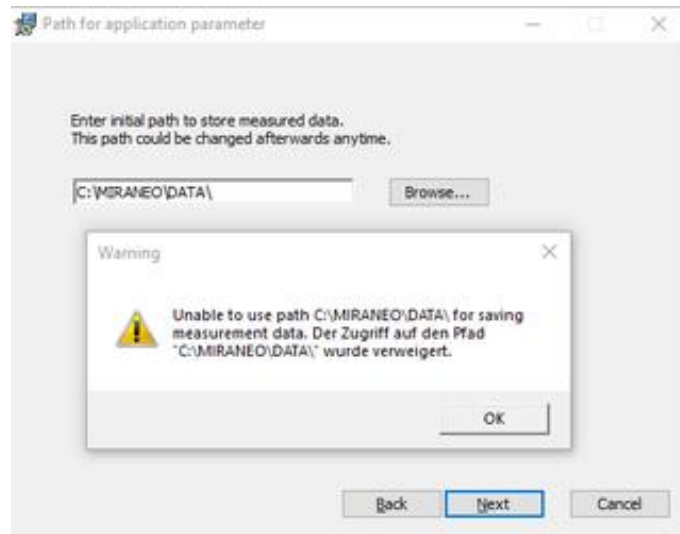


Figure 11 Path to data folder: unable to use the path, not enough rights to access.

If the application has been already installed current path will be shown in the text box. On software updates it's not necessary to select the path once again.

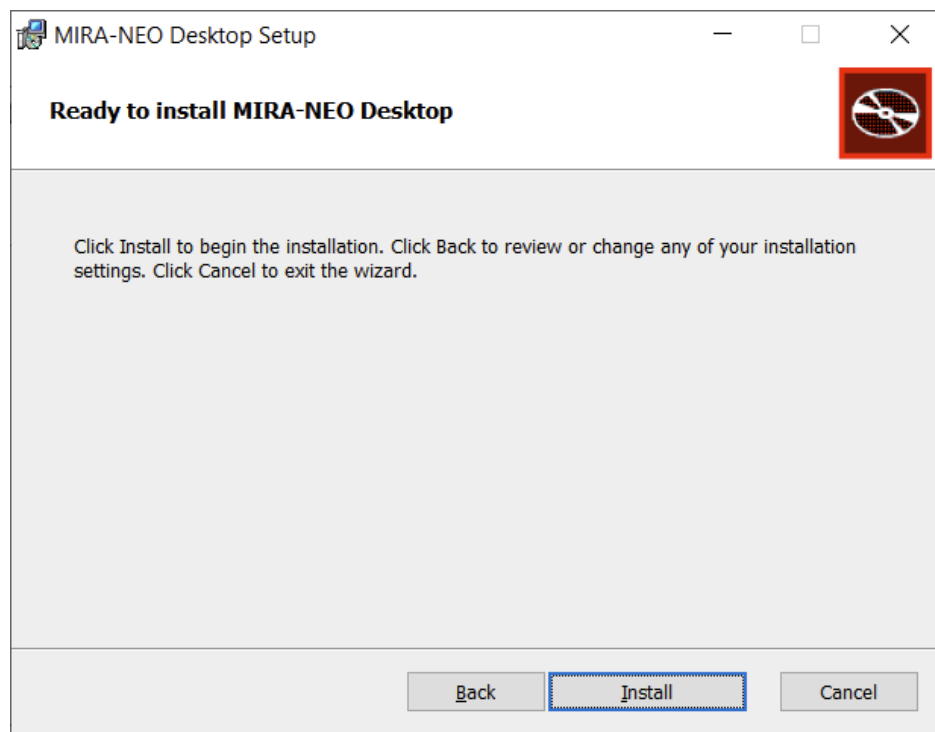


Figure 12 „Ready to install“ screen.

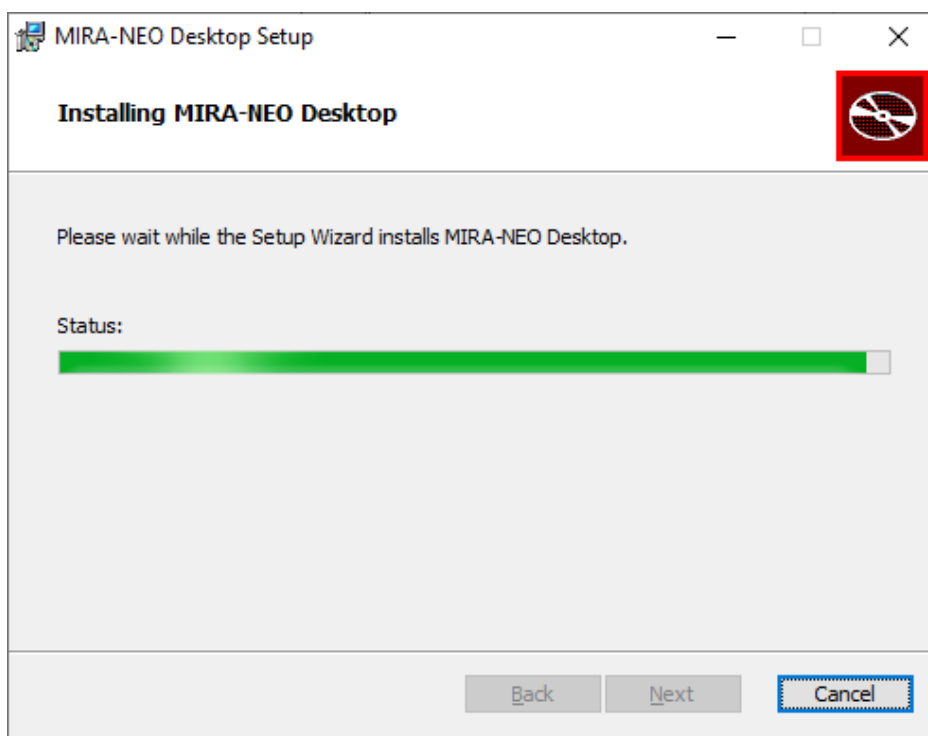


Figure 13 Installation in progress.

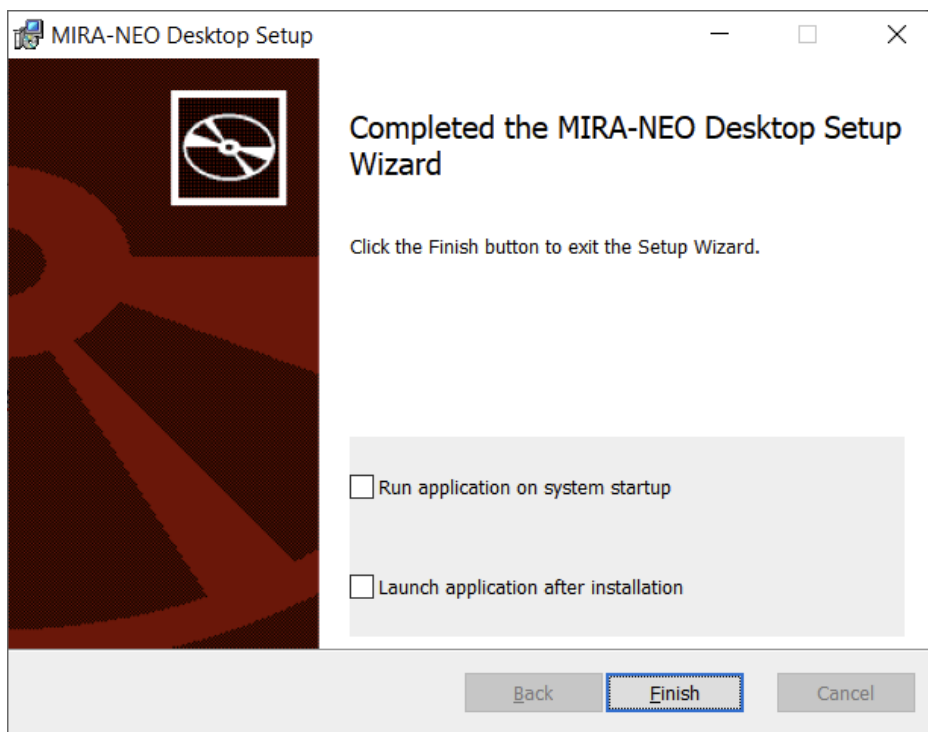


Figure 14 Installation finished.

On installation finish you can optionally select to start the application on Windows startup and to launch the application directly after installation.

4. License deactivation

To use your activated license on another PC, you must first deactivate it on your current PC. To do this, run the “License Deactivation” software from the Start menu.

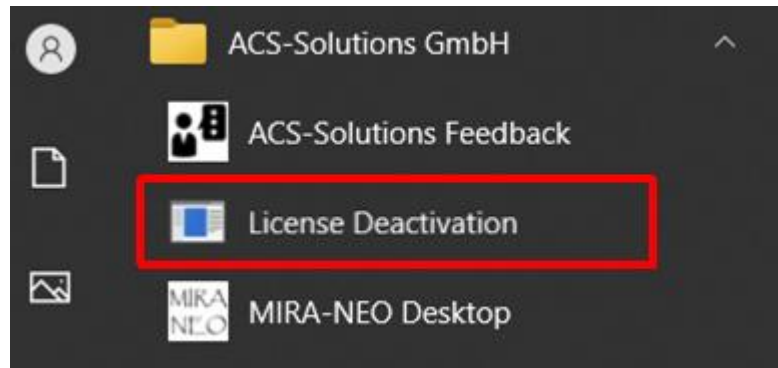


Figure 15 License deactivation software shortcut in Windows Start menu.

On start, you'll be prompted to confirm the deactivation.

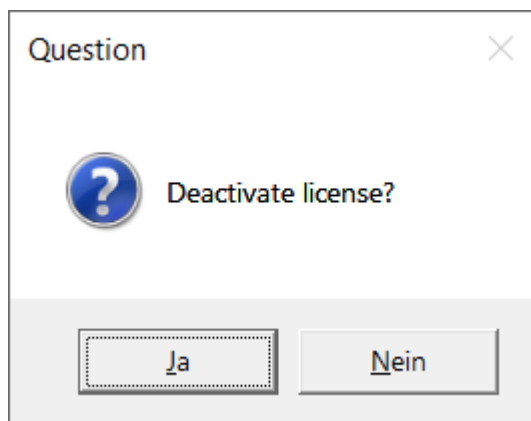


Figure 16 Confirmation of license deactivation.

If you occasionally launch the software, you could cancel the deactivation by pressing “No”.

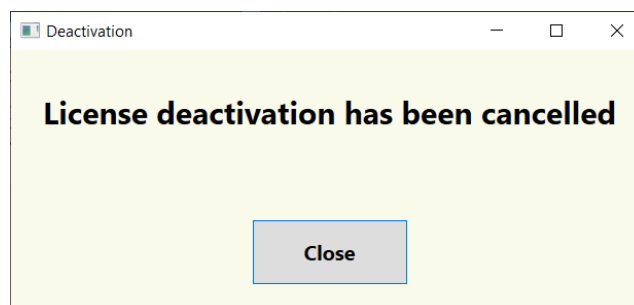


Figure 17 Cancelling of the deactivation.

By pressing “Yes” your license will be deactivated.

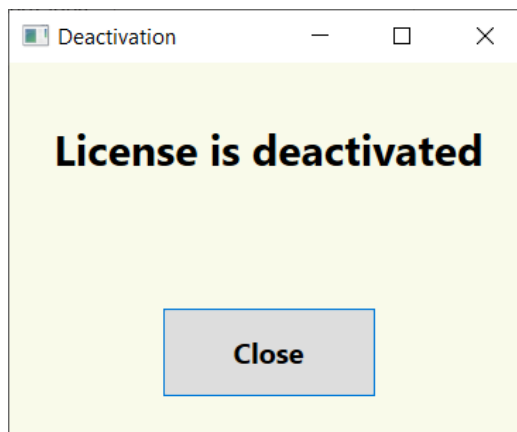


Figure 18 License deactivation result.

If there are issues with the internet connection to a licensing server, you'll see an information message. In this case, your license is still active and assigned to the current PC.

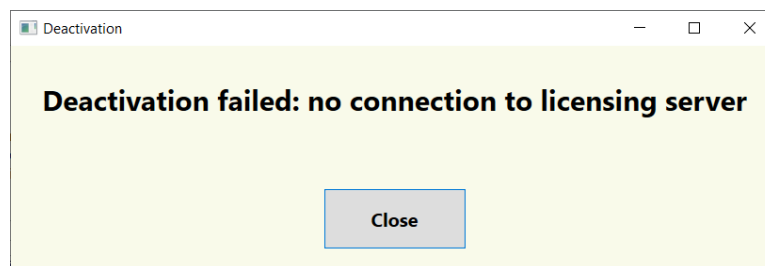


Figure 19 License deactivation could not be completed: connection issue.

Press “Close” to exit the deactivation software.

5. Content of the software package MIRA NEO

The software package MIRA NEO holds three software tools:

- “MIRA-NEO Desktop” application to acquire and analyze data from the A1040 MIRA 3D instruments.
- The software tool for license deactivation
- The software tool for sending feedbacks to our support team

After installation finish in Start menu will be created shortcuts for the applications.

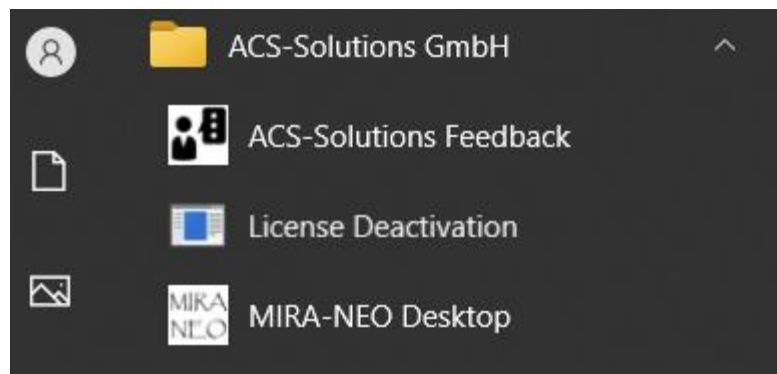


Figure 20 Windows Start menu shortcuts.

6. Importing files from Android tablet

To import the measurements, begin by locating the application data folder on your PC. You can find it in the Setup window under the property labeled "Data path." Make a note of this path or open it in Windows Explorer. In our example, the path is "C:\MIRANEO".

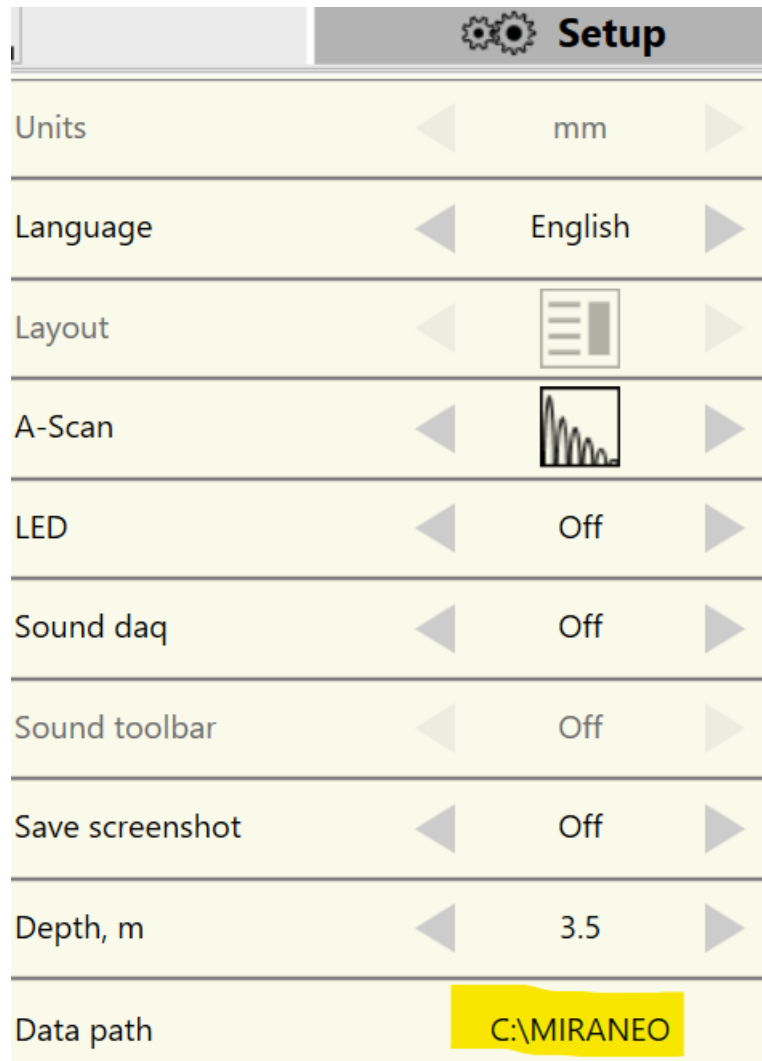


Figure 21 Path to data folder.

On the tablet, the measured files are stored in the internal storage within the "A1040 MIRA 3D" folder.

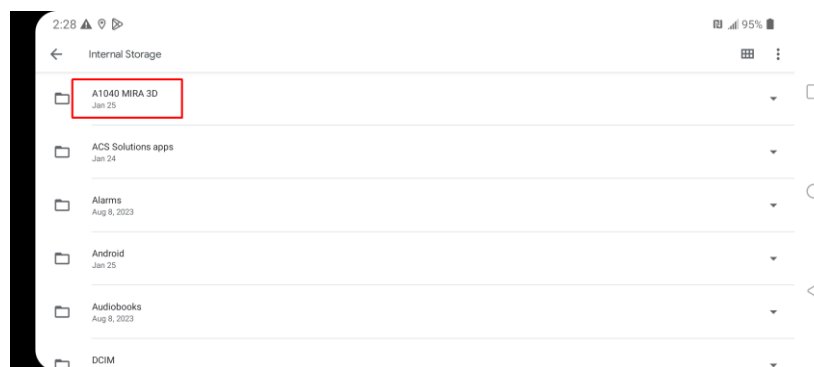


Figure 22 Location of measured files on tablet.

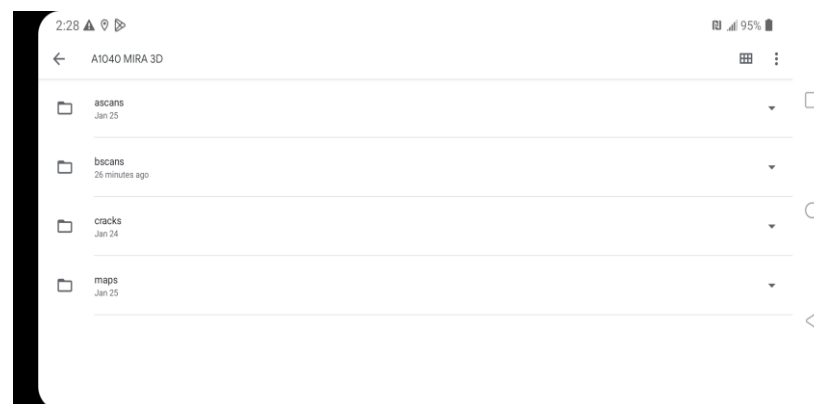


Figure 23 Content of data folder on tablet.

Each subfolder corresponds to a measurement mode: B-Scan, Map, Crack detection, and A-Scan.

To import the data, connect the tablet to the PC and copy the content of the corresponding subfolder from the tablet memory to the desktop data subfolder. In our example, copy from "A1040 MIRA 3D\maps" to "C:\MIRANEO\MAP".

After copying, you can open the data in the desktop software. If the A1040 MIRA 3D desktop software is already open, you must either restart it or

click on the 'Data path' property (refer to Figure 21) and select this path again. This will refresh the internal file structure of the desktop software.

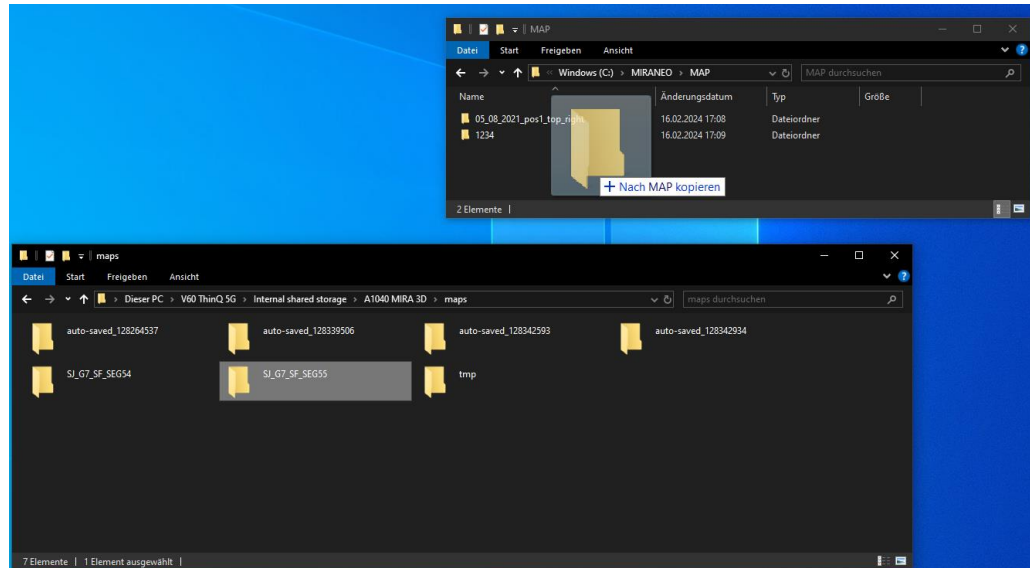


Figure 24 Import MAP measurement data from tablet to PC.

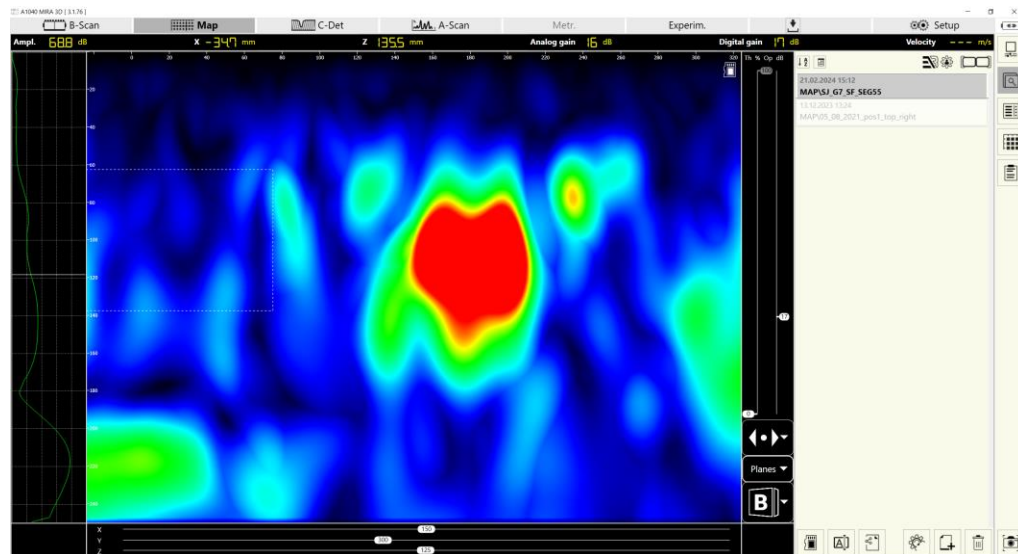


Figure 25 Imported data shown in desktop software.