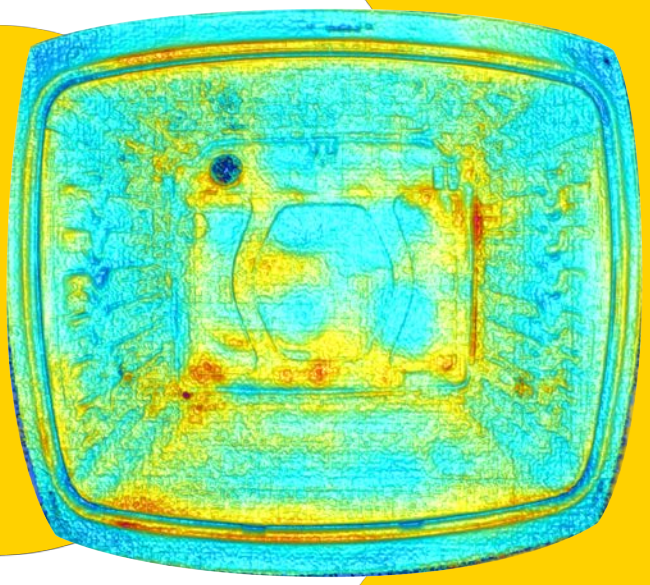
coatmaster

measure up. contactless.

coatmaster 3D Manual



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Subject to technical changes and printing errors, the values given are approximate values and are not to be understood as legally guaranteed properties. These values may vary depending on the component tolerance.

Last update: **09/2025**

1 Inhalt

2 General

2.1 Information

This manual describes the coatmaster 3D software and provides all the information required for safe operation and use.

Read this manual carefully before installing and commissioning your system, and pay particular attention to the safety information in chapter **Error! Reference source not found.**. Keep the manual in the immediate vicinity of the instrument so that it can be viewed at any time.

The illustrations in this manual are for general understanding and may differ from the actual product design, execution, and user interface.

2.2 About this manual

The user manual contains instructions on how to properly install and use the coatmaster 3D software and provides all the information necessary for its safe and flawless operation, as well as safety information, maintenance information, detailed information on setting up networks and communication, creating applications, calibrations and applications including external remote control and troubleshooting by the user. The use and installation of the coat**master** 3D software is described in this manual.

Paragraphs beginning with **NOTE** contain helpful information for working with the device/software or its supplements. **NOTE** are not related to any hazards or damage (see the following example).

NOTE

Useful tips for the easy operation of the instrument / software.

Read this user manual carefully before installing and running your system, and pay particular attention to safety precautions. Keep the instruction manual in close proximity to the instrument so that it can be viewed at any time.

The illustrations in this user manual are for general understanding and may differ from the actual user interface.

2.3 Limitation of Liability

The device is developed and built according to the current state of the art. However, risks to operators, the environment, property, plant and equipment and the environment can arise if the equipment is used with a lack of care or improperly.

coatmaster AG has determined the following residual hazards emanating from the device:
The user manual is not taken into account.
The appliance is not operated in accordance with its intended purpose or after its proper use.
The device is operated by insufficiently trained personnel.
Unauthorized conversions/modifications and modifications of the device.
Use of non-listed and approved spare parts
Appropriate warnings in this guide are designed to alert the user to these remaining hazards.

Due to special designs and additional options or due to the latest technical modifications, the actual scope of delivery may differ from the descriptions and illustrations.

The obligations agreed in the supply contract, the general terms and conditions as well as the manufacturer's terms and conditions of delivery and the legal provisions at the time of conclusion of the contract are exclusively valid.

2.4 Urheberschutz / Copyright

No technical modifications may be made to the device without the prior written consent of coatmaster AG. Unauthorized changes can compromise system security or lead to accidents.

This manual is protected by copyright. Information from it may not be reproduced, disseminated, used for competition purposes or made available to third parties. The manufacture of a component using this manual without prior written consent is also prohibited.

2.5 Warranty conditions

The warranty conditions are part of the manufacturer's general terms and conditions.

Any system modification and modification of the software, such as

Installation of additional software
Software-Updates fremder Programme

may impair or damage the coatmaster 3D software and are therefore prohibited.
coatmaster AG assumes no liability for data loss. It is recommended to back up the stored data (application and measurement data, etc.) regularly, e.g. on external data carriers.

2.6 Scope of Delivery

1 x coatmaster 3D user interface software
1 x User Manual

3 Installation der coatmaster 3D GUI

3.1 Hardware Requirements

Operating System

The software (coatmaster 3D Operating System / GUI) **must be installed on a Windows PC**.

Network interface (Ethernet)

The computer must be connected to the coatmaster 3D device via Ethernet cable. The computer and the device **must be on the same network subnet** .

Administration rights & network configuration

Administrator rights are required for setup (e.g. assignment of an IP address). Network and IP settings are made manually in the application configuration menu.

GUI Software

The GUI (e.g.cm3dUi_app.exe).

Control Units & Electrical Supply

The system is operated via a 19" rack control unit, which must be correctly connected and grounded. Details on the power connection and cooling are described in the hardware part's manual.

3.1.1 Recommended Hardware Requirements

Based on typical industrial applications for industrial measuring systems, the following is required:

Processor (CPU): modern multi-core processor (e.g. Intel i5/i7, AMD Ryzen 5/7)
Memory (RAM): at least **8 GB,** preferably **16 GB** or more
Graphics card: dedicated (e.g. NVIDIA/AMD), for displaying 3D images
Hard drive: SSD instead of HDD for faster loading times, at least 5 GB free
Network: stable Gigabit Ethernet
USB: possibly for updates/software distribution via USB stick

3.1.2 Requirements for the installation of coatmaster 3D software

Area	Minimum Requirement
Operating System	Windows PC (Windows 11, 64-bit recommended)
Network connection	Ethernet, same subnet as the device
IP Management	Administrator rights required
GUI Software	cm3dGUI (e.g. cm3dUi_app.exe) install and start
Control unit & power supply	Rack installation, correct grounding, cooling
USB port	For updates/installation via USB stick
Recommended Hardware	modern CPU, >=8 GB RAM, SSD, dedicated graphics card

3.2 Prerequisites for the GUI

The coatmaster 3D system is properly installed, connected and switched on.

A PC is connected to the coatmaster 3D system.

An up-to-date web browser is installed on the PC.

3.2.1 Accessing the User Interface

Open the web browser on the connected PC.

Enter the IP address **specified on the coatmaster 3D system** in the address bar of the browser (example: 192.168.1.185:8082).

The IP is noted on a label on the back of the transducer.

The port must always be 8082.

Once confirmed, the server's user interface will open with the Start **UI** and **Download UI buttons**.

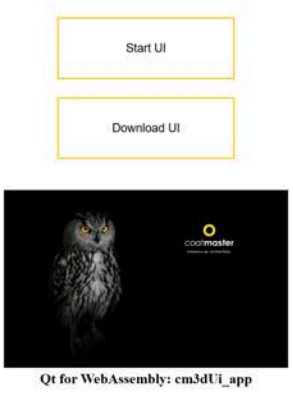

Figure 1

3.2.2 Choosing the Access Method

There are two options available in the web browser:

Start UI
Launches the actual graphical interface of the application. The WebAssembly files are loaded and executed in the browser. This may take a few seconds.

Download UI

Allows you to download the user interface (HTML, JavaScript, and WebAssembly files) for local use.

Advantage: Highest performance and stable operation of the coatmaster 3D system.

3.2.3 Technical Background

The coatmaster 3D UI is based on Qt for WebAssembly. This technology allows a Qt application to run directly in the browser, without installation. The application is delivered by the device's built-in web server over **port 8082** .

3.2.4 Troubleshooting

Page not loading: Check the network connection (e.g. with ping test).
Browser shows "Not secure": Harmless, because local connection.
Start UI is not responding: Use Chrome or Edge.
UI remains blank: Clear browser cache or reload page with CTRL+F5.

3.2.5 Conclusion

Start UI: Launches the graphical user interface.
Download UI: Downloads the UI files.
Address: Local connection via **port 8082**.
Technology: Qt for WebAssembly.

3.3 Download und Installation

1. Laden Sie die bereitgestellte **ZIP-Datei** über die Benutzeroberfläche herunter.
   - In der Regel wird die Datei im Ordner **Downloads** des PCs gespeichert.
2. Entpacken Sie die ZIP-Datei. Die ZIP-Datei kann danach gelöscht werden.
3. Navigieren Sie in den entpackten Ordner.

3.4 Launch of the application

In the installation folder, you will find the program file **cm3dUi_app.exe**.

Start the application by double-clicking on **cm3dUi_app.exe**.

The graphical user interface of the coatmaster 3D software is opened.

Create a shortcut to the cm3dUi_app.exe executable file and move it to the desktop, for example, to make it easier to access.

4 User Interface GUI

After starting the program **cm3dUi_app.exe** from the installation directory of the coatmaster 3D software, the user interface is displayed.

As a rule, the last measurement with the corresponding results and settings is displayed. When reinstalling for the first time, there is no content.

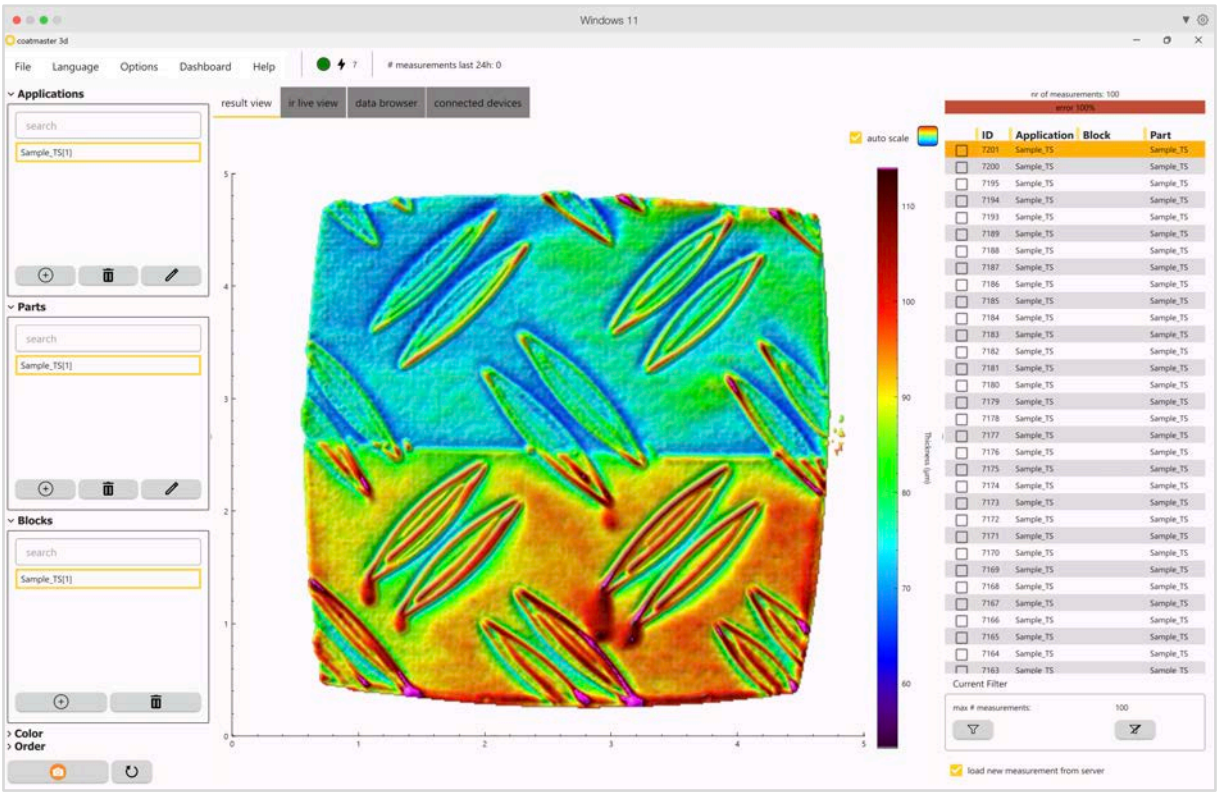

Figure 2

4.1 Icons & Displays Main Window

Symbol / Display	Meaning
	Create a new application/part/block.
	Delete selected entry (with request).
	Edit names/properties.
	Select/deselect record.
	Automatic adjustment of the color gamut to data.
	Make measurement.
	Refresh or reset view.

	Currently set energy level (**7**).
# measurements last 24h	Counter of measurements of the last 24 hours.
	The mouseover function shows a tooltip with an explanation of the respective symbol or command.

4.2 Explanation of terms

Applications

An application is the prerequisite for measurements with the coatmaster 3D system according to the ATO principle (Advanced Thermal Optics).
It represents a specific setting – comparable to a calibration – based on a specific combination of materials (coating + substrate).
When creating an application, a calibration profile is created. This contains all the measurement parameters necessary for precise and repeatable measurement.
By using applications, these parameters can be applied to further measurements of the same material combination.

Parts

One part is the geometric representation of the object to be measured.
In a part, the associated layers (templates/templates) are managed, which are adapted to the respective component.

Layers (Templates / Stencils)

A layer is a template that is created for a specific component.
It contains a defined number of **ROIs** that are used for the area-based evaluation of measuring points, e.g. for statistical functions and limit values.

ROI (Region of Interest)

An ROI is a geometrically defined area within a layer.
It is used to calculate statistical values and to check limits.

Blocks (measurement series)

A block comprises a series of recorded measurements.
These can be saved after each measurement with the coatmaster 3D system, e.g. to create and archive measurement reports.

Properties

A property is an additional, optional piece of information to a measurement.
It does not influence the application, but serves to describe the measurement – for example, with regard to the coating material used (powder or wet paint), the color (e.g. RAL 9010) or other freely selectable information.

4.3 Commands and symbols

In the individual menu areas and program sections, various command functions are represented by icons.

The following overview shows the symbols used as well as their respective functions.

4.3.1 Meaning of the commands

Symbol	Meaning	Description
	Note	Displays general information or tips.
	Command Bar	Contains the most important control elements in one bar.
	Add	Creates a new item.
	Delete	Removes selected elements.
	Edit	Opens selected element for editing.
	Update	Reloads the list.
	Confirm	Accepts inputs.
	Cancel	Cancels the process.
	Filter	Data filters for analysis and sorting.
	Export	Exports data.
	Upload	Loads saved data or configurations.
	Edit (specific)	For example, changes IP address.
	Unselected	Function not active.
	Selected	Funktion ist aktiv.
	Disabled	Feature currently unavailable.
	Enabled	Function is active.
	Information	Further and more detailed information.

4.4 Structure of the user interface

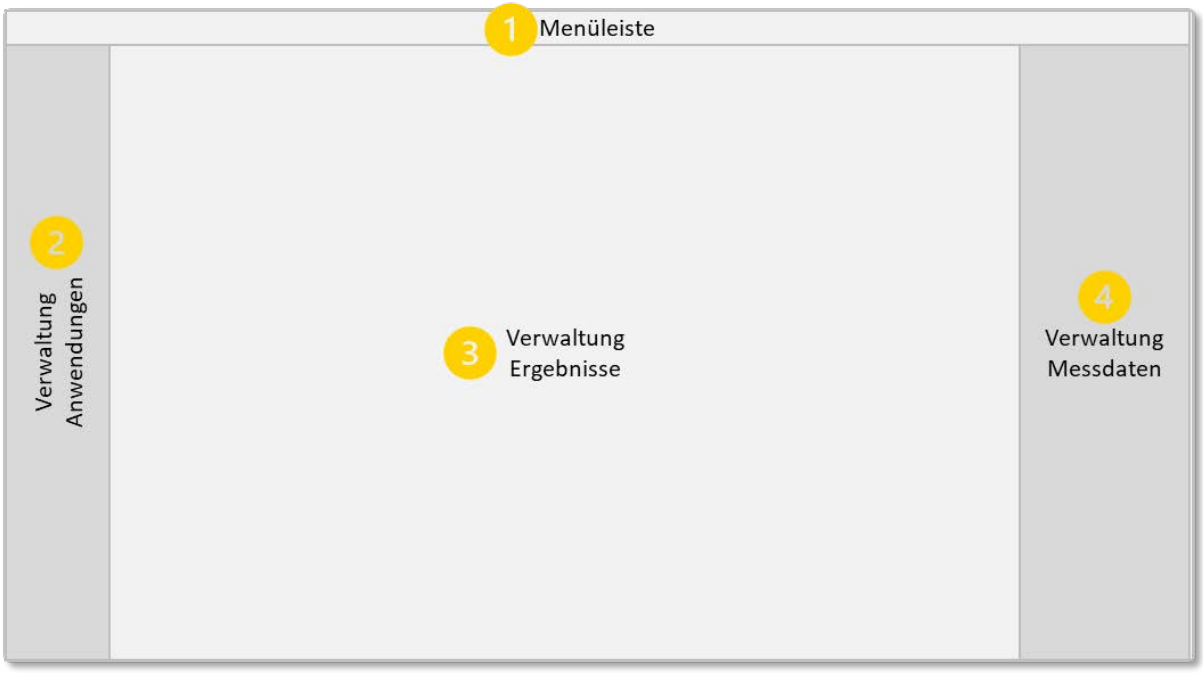

Figure 3

The user interface is organized into four main areas:

1 **Menu bar (top area)**
Contains the basic settings as well as further submenus.

2 **Application management (left pane)**
This is where you select and manage:

Applications
Parts
Blocks (measurement series)
Properties

3 **Measurement results / visualization (medium range)**
Presentation and management of results in **numerical** and **graphical form**.

4 **Measurement data management (right area)**
Enables the individual compilation and tabular display of the available data.

4.4.1 Menu bar

The **menu bar** contains all the selection points required for basic settings and customizations. It clearly displays all functions and commands and thus allows quick access to the most important settings.

Submenus can be used to import created **applications** as well as **parts with their specific regions of interest (ROI),** for example from other coatmaster 3D systems.

In addition, further submenus provide information on the **connected hardware** and its current operating status.

Menu item	Description
File	Device overview, import of measurement data.
Language	Change of program language (e.g. German/English).
Options	Customize display options and device settings.
Dashboard	Customizable overview of current measurement activities.
Hilfe (Help)	Access documentation or support information.

In addition, there are:

Flash with solid color fill : Zeigt aktive Geräteverbindungen und den eingestellen Energielevel an (z. B. **7**).

 # measurements last 24h: Number of measurements taken in the last 24 hours.

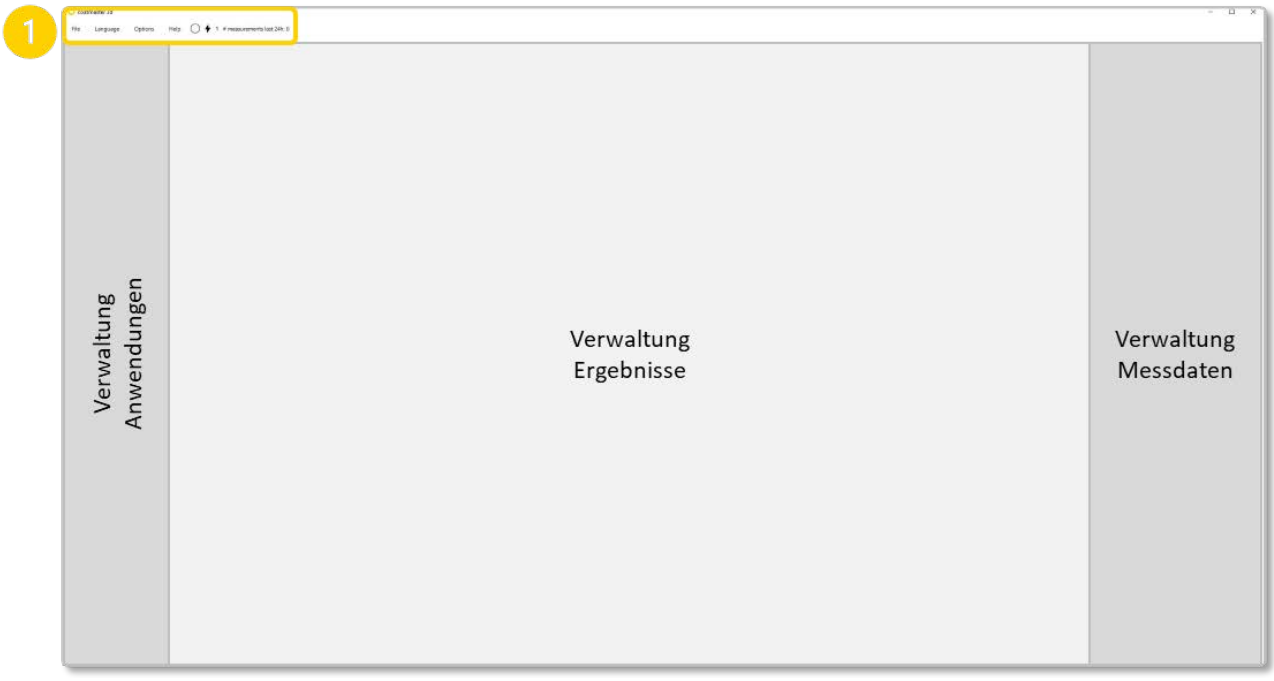

Figure 4

4.4.2 Badge with solid color filling

2 In the **"Applications Management"** area , all the necessary selection points for the administration of applications, parts, blocks and properties are available.

The administrative area comprises four categories. In these, applications, components, blocks and properties can be added, deleted, edited and updated using the provided command buttons. A search field can be used to search freely for stored text content.

Applications

Various application profiles are displayed here.
These profiles contain predefined measurement and analysis parameters.

Parts

Shows the measurement objects or components that can be assigned to an application.

Blocks (Blöcke)

Shows the subunits or measuring blocks of a component.
Used to divide measurements into sections.

Property 1... 3 (Property)

Shows the additional properties of a component.
Used to divide measurements into further sections.

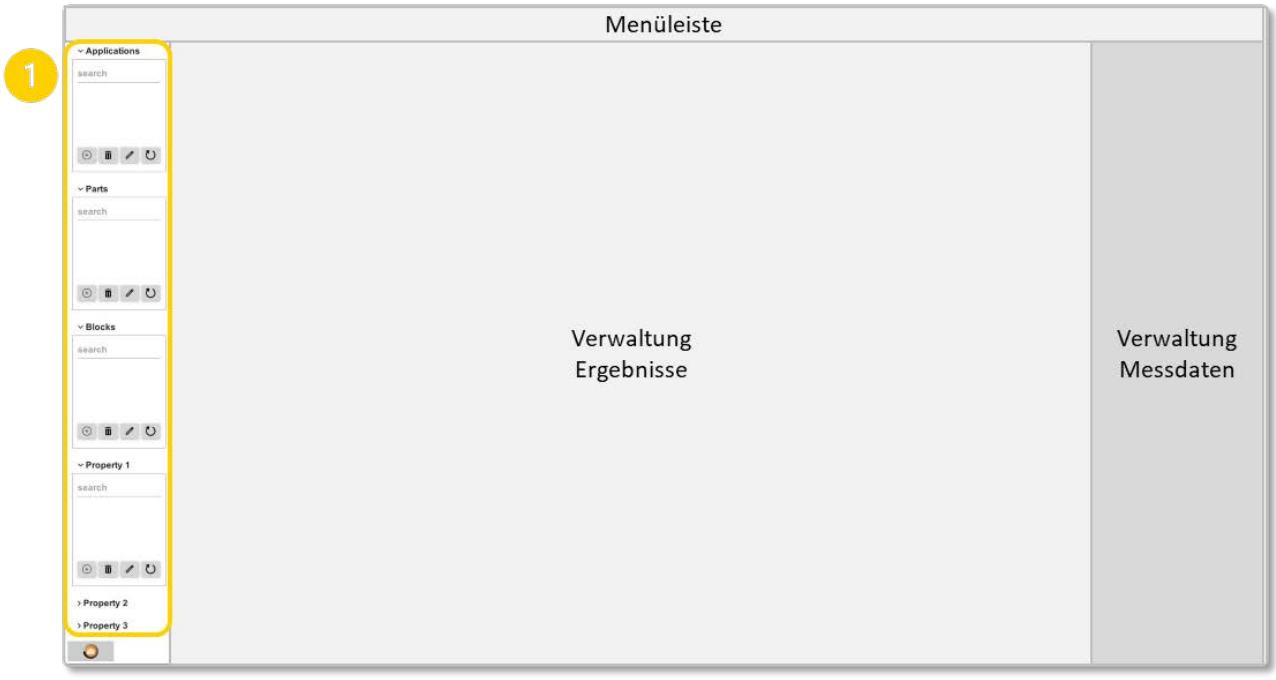

Figure 5

Available functions and commands

Follow brand Silhouette

Click "Add" to enter a new item.

Waste with monochrome filling

Select an item and select "Delete" to remove it.

Pencil Silhouette

Select an item and select "Edit" to make changes.

Refresh with solid fill

Click Refresh to reload the list.

4.4.3 Brand 3 with solid color filling

3 In the **"Administration Results" area** , the measurement results are displayed graphically. The **mouse-over function** can be used to navigate to any point in the results view; the corresponding measured value is permanently displayed in numerical form directly next to the mouse pointer.

The **X and Y axes** show the position on the measured area.

The **color scale** (to the right) represents the **layer thickness** in micrometers (µm).

Blue/green → thinner layers

Yellow / Red → thicker layers

auto scale: Automatic adjustment of the color value range to the current measurement.

The map shown makes it possible to immediately identify material thickness differences or surface structures.

The central workspace is divided into five tabs:

Result view
Display, management and partial analysis of the measurement results.

IR Live view
Display of the live image in the infrared spectrum via the optical measuring head.

RGB Live view
Display of the live image in full color via the optical measuring head.

Data browser
Advanced analysis and evaluation of measurement results with filter functions.

Connected devices (Verbundene Geräte)
Overview of the connected hardware (e.g. measuring head, generator unit) that communicates with the control unit via the GUI.

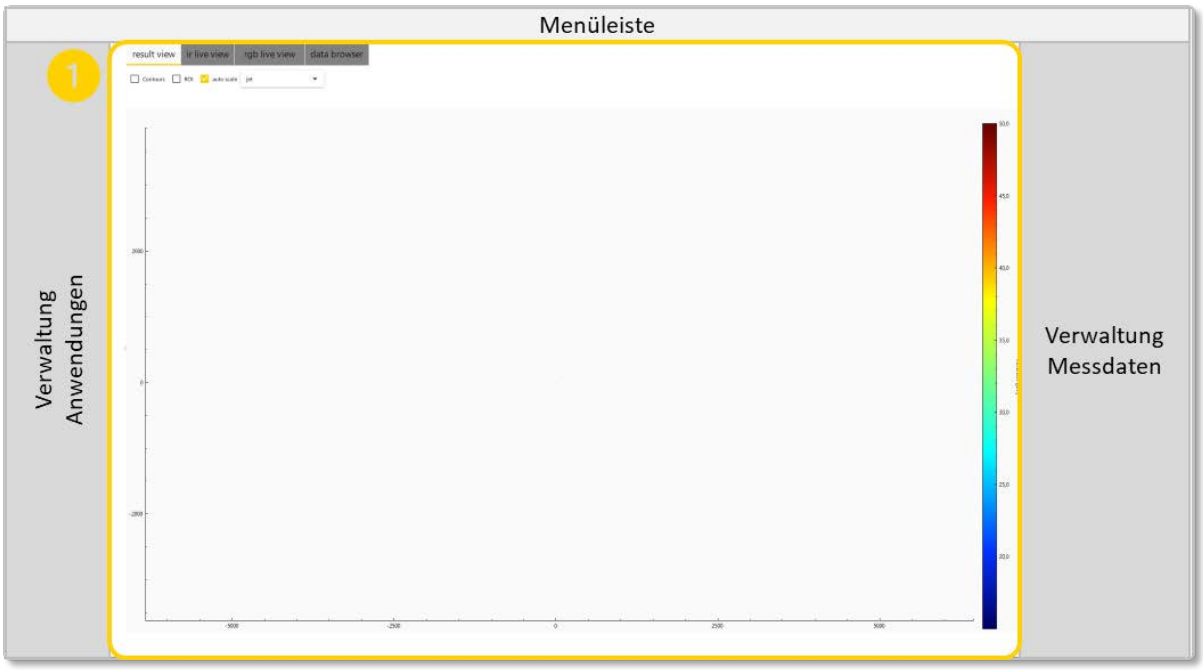
Menüleiste
1
result view
ir live view
rgb live view
data browser
Verwaltung
Anwendungen
Verwaltung
Messdaten

Figure 6

4.4.4 Brand 4 with solid color filling

4 In the **"Measurement data management"** area , all recorded measurements are listed. These can be selected individually or multiple times for further evaluation.
An individual compilation of the information to be displayed in table form can also be done here.

The checkmark indicates the selected measurement.

Selection of measurements

You can mark individual or multiple measurements for further evaluation.

Individual table view

You can use the adjustment function (context function) to determine which information is displayed in the table.

Context Functions

With the right mouse button, measurement data:
Select or deselect export,
for statistical evaluations,
Delete, copy
or merge.

Column	Meaning
ID	Unique measurement number
Application / Block / Part	Affiliation of the measurement
nr of measurements	Total number of records loaded
error [%]	Shows the current error rate (for incorrect or incomplete data)

Below the table:

Filter Silhouette: Begrenze die maximale Anzahl an angezeigten Messungen (max # measurements).

Check box selected with solid fill: Automatischer Import neuer Daten vom Gerät oder Server.

4.4.5 Typical workflow

Load measurement data

Choose an *Application*, *Part,* and *Block*.

Activate "load new measurement from server" to load current data.

Displaying Metrics

Select a measurement from the table on the right.

The result is color-coded in the central area.

Analysis and evaluation

Use the color scale to identify local thickness distributions.

Optional: Export or save the results via the *file* menu.

4.4.6 Tips for use

Zoom & Pan: Use your mouse or touchpad to zoom in or out of the view.

Data comparison: Several measurements can be loaded one after the other to assess process progress.

Disable Auto Scale: To compare multiple samples with the same color scale.

4.4.7 Troubleshooting

Problem	Possible solution
No data shown	Check if a block and measurement are selected.
Incorrect color display	Disable "auto scale" and set the color limits manually.
Lost connection	Check the connection to the device under "connected devices".

4.4.8 Conclusion

This view offers a convenient way to visualize and analyze measurement data from coatmaster 3D. The combination of colour chart, table view and filter functions gives the user a quick overview of the coating thickness and surface structure.


Menüleiste
Verwaltung
Anwendungen
Verwaltung
Ergebnisse
1

Figure 7

5 User interface menu bar

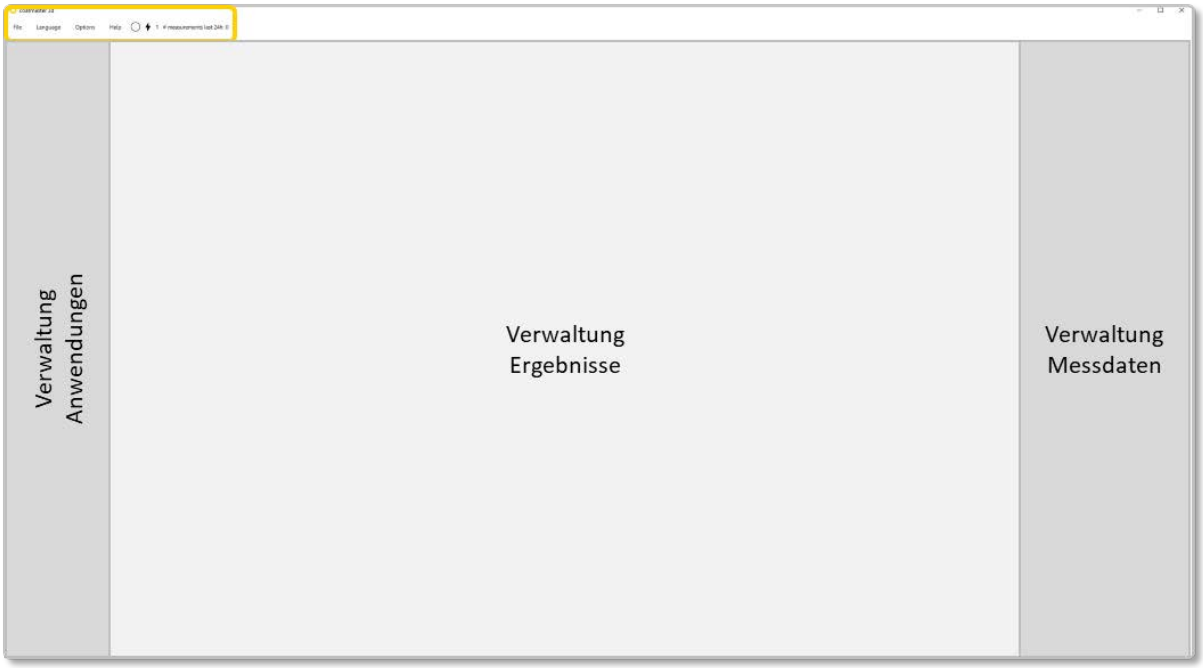

Figure 8

All functions and commands are stored in the menu bar, which allow quick access to the basic settings.

Submenus can also be used to import created applications and components with their specific regions of interest (ROI) – for example from other coatmaster 3D systems.

Further submenus also provide information about the connected hardware and its current status.

5.1 File Menu

In the **File** menu , the following options are available.

Device Selection of
an Available Transducer

Import applications (Import Applikationen)
Importing or restoring applications

Import parts (Import Bauteile)
Importing or restoring components

Import measurements (Import Messungen)
Importing or Restoring Measurements

Flash unit
Query the status of the connected pulsed light sources

Quit
Quitting the program

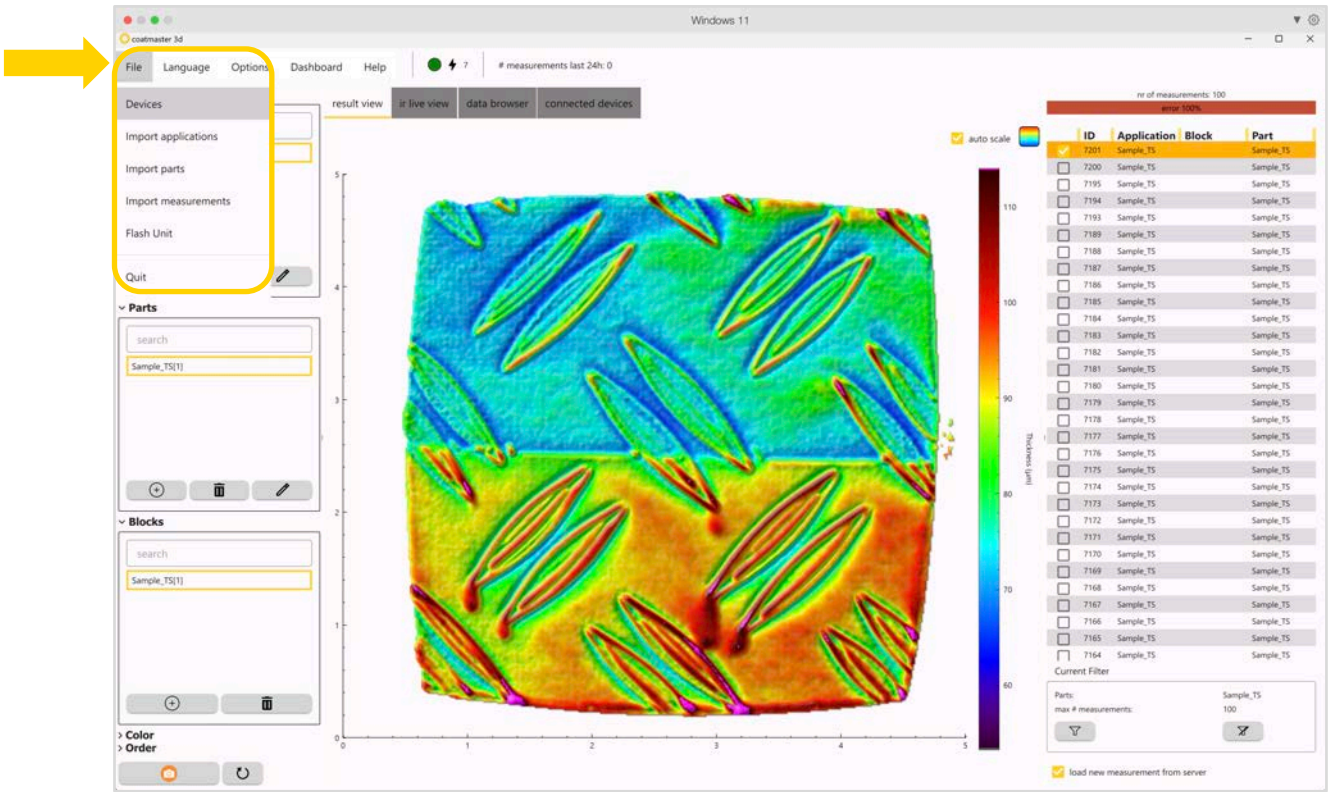

Figure9

5.1.1 Devices

The Devices menu item allows you to select an available coatmaster 3D measuring head. The "Select Device" dialog is used to manage all coatmaster 3D measuring devices connected to or available with the software.
Here, new devices can be selected and connected to perform measurements or check existing device connections.

In the list displayed, measuring heads can be viewed and, if necessary, deleted, edited, connected, updated or added.

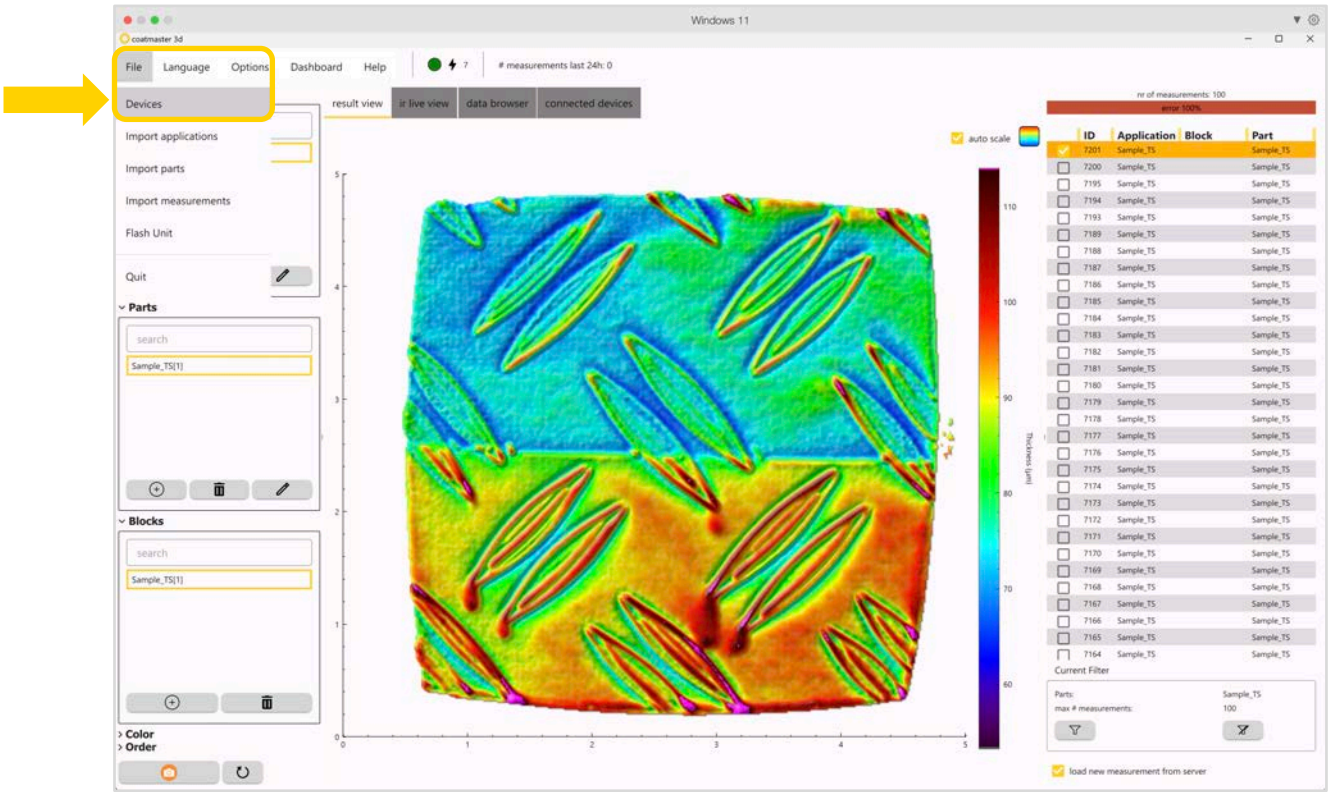

Figure10

5.1.1.1 Select device

After entering the menu **File** → **Devices** a selection window opens with an overview of the available coatmaster 3D measuring heads.

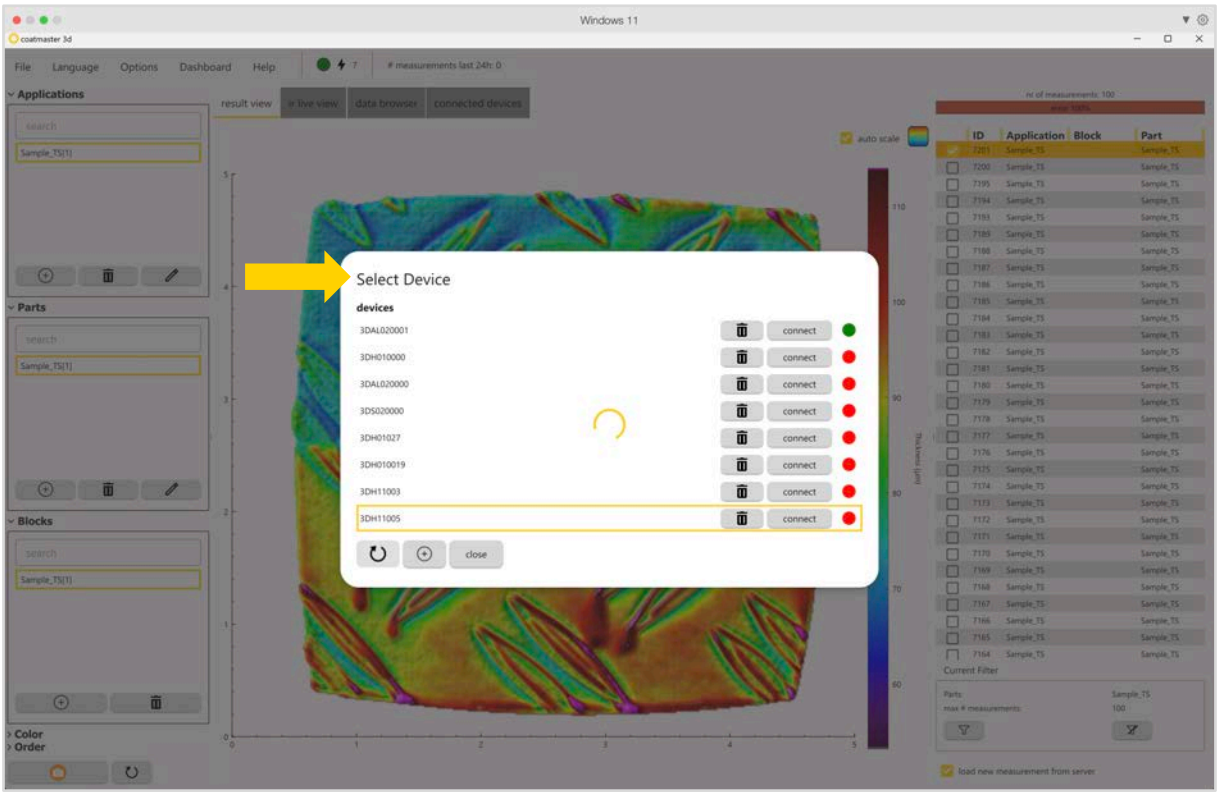

Figure11

5.1.1.2 Select device

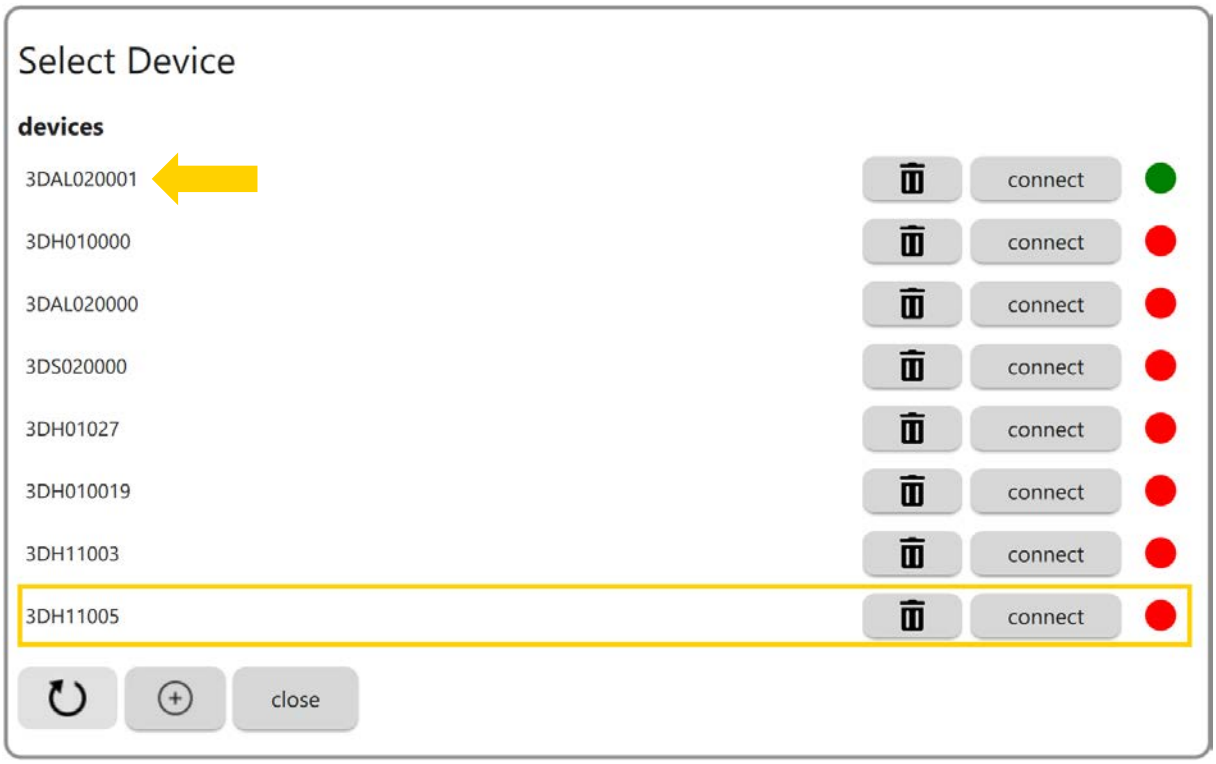

Figure12

The **Select device** window displays and manages all available coatmaster 3D transducers. By clicking the corresponding button, the desired action is performed. Depending on the function, additional or optional input windows may then appear. All buttons show their respective function as soon as the mouse pointer is moved over them.
A green dot indicates an active connection to a transducer. Several measuring heads can also be connected at the same time.
The list shows all known or found devices. Each entry contains:

Element	**Description**
Device name **/ ID**	Unique identifier of the meter (e.g. 3DAL020001, 3DH11005).
Status indicator (Red/Green)	Shows the current connection status:
Red	Device not connected or offline
Green	Device connected and ready

Control buttons per device

Button	Function
(Trash can icon)	Removes the device from the device list. Used when the device is no longer to be used.
(Connect)	Establishes a connection to the device.

When a device is connected, the button status changes and the status indicator on the right turns green.

Controls at the bottom **Button**	**Description**
(Refresh)	Refreshes the device list – searches for new or available devices on the network.
(Close)	Closes the dialog without changes.
(Loading icon)	Indicates that the software is currently searching for devices or checking connections.

Available functions and commands

Delete

Select an item and select "Delete" to remove it.

Connect

Click "Connect" to connect the measurement head to the software.

Reload/refresh list

Click "Refresh" to reload the list.

Add new

Click "Add" to enter a new item/device.

Close

Closes the window that appears.

5.1.1.3 Connect device

A measurement head ● marked with a green dot can **be connected to a control computer on which the coatmaster 3D software is installed and to the GUI by clicking on the command button "Connect", if this has not already been done automatically when the program is started.**

This function can also be used to reconnect to an available transducer or when switching to another available transducer.

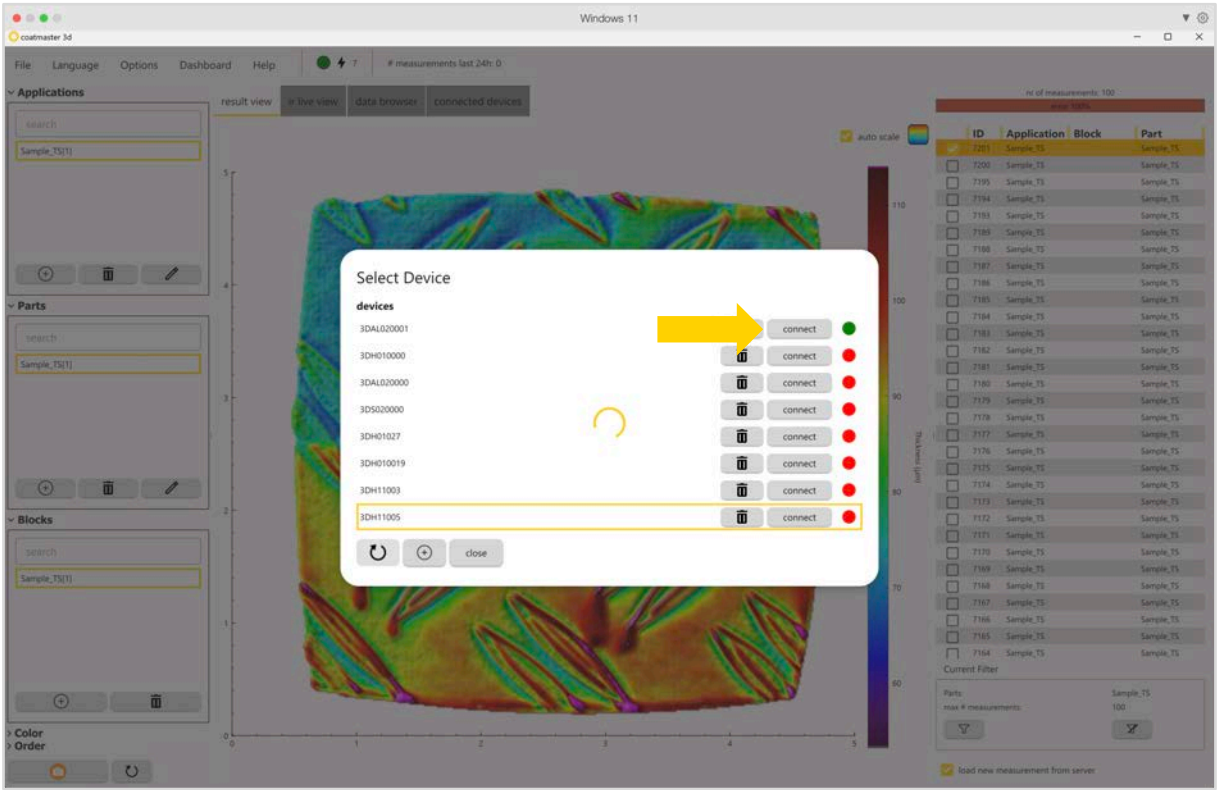

Figure13

Available functions and commands

Connect

Click "**Connect**" to connect the transducer to the software.

5.1.1.4 Info Device (Information Gerät)

To obtain information about a measuring head, the **mouse-over function** and positioning of the mouse pointer can be used to query the name of the measuring head, the server version, the IP address and the MAC address.

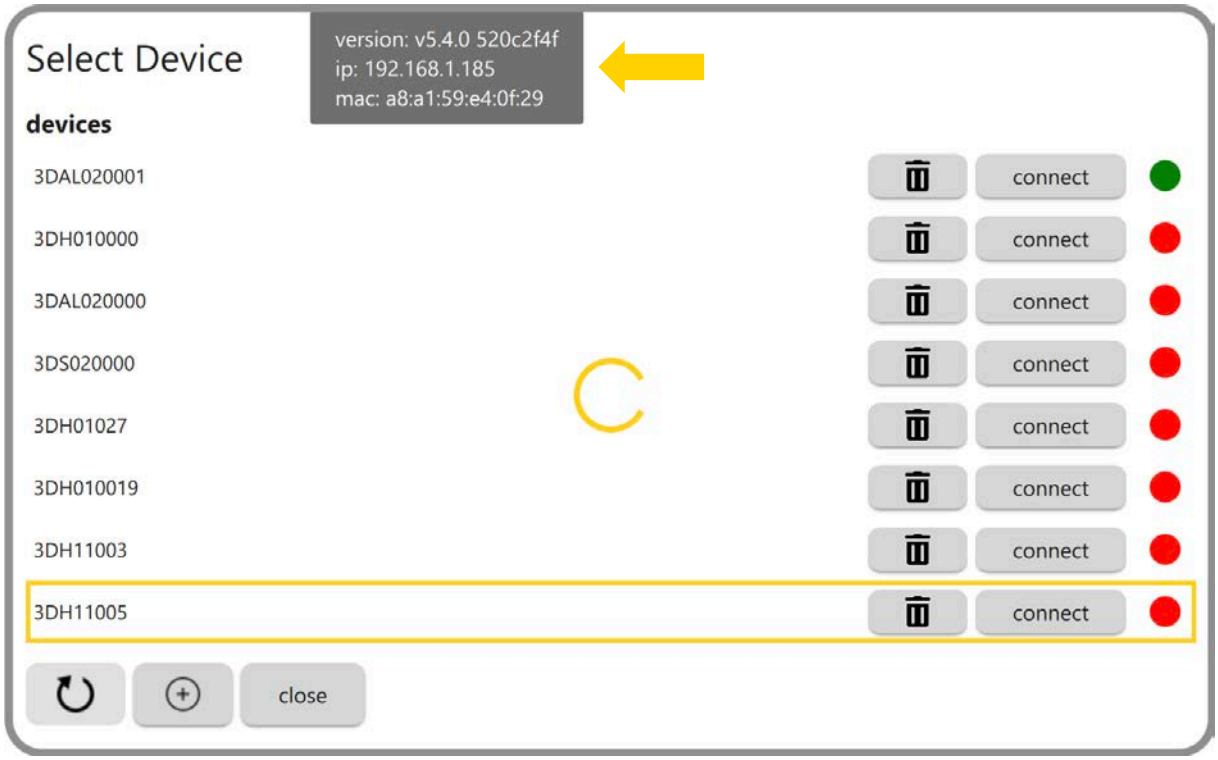

Figure14

5.1.1.5 Refresh device list

Refresh with solid fill anklicken.
All available transducers are then displayed in the list.

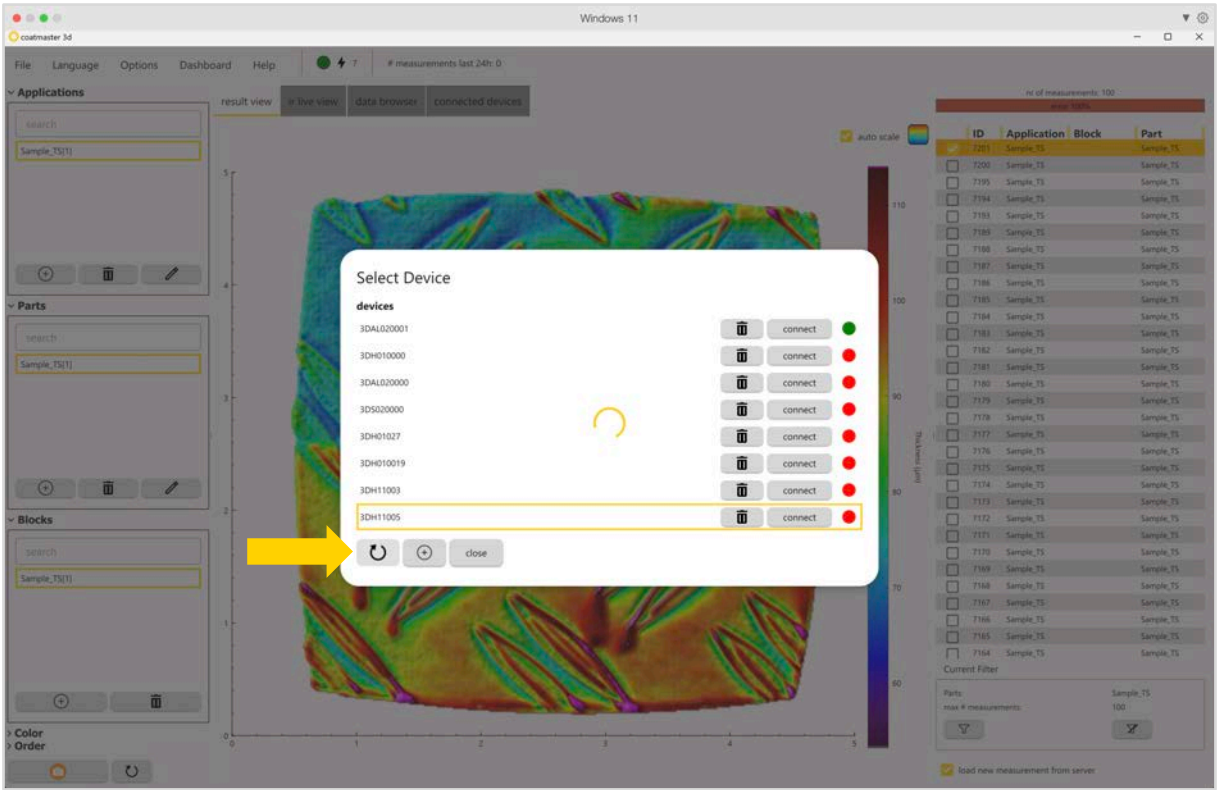

Figure15

Available functions and commands

Refresh

Click Refresh to reload the list.

5.1.1.6 Add new device

To add more measurement heads, click the ⊕ button.
By clicking on the command button, the action is executed. Subsequently, additional input windows may appear to make additional or optional entries.

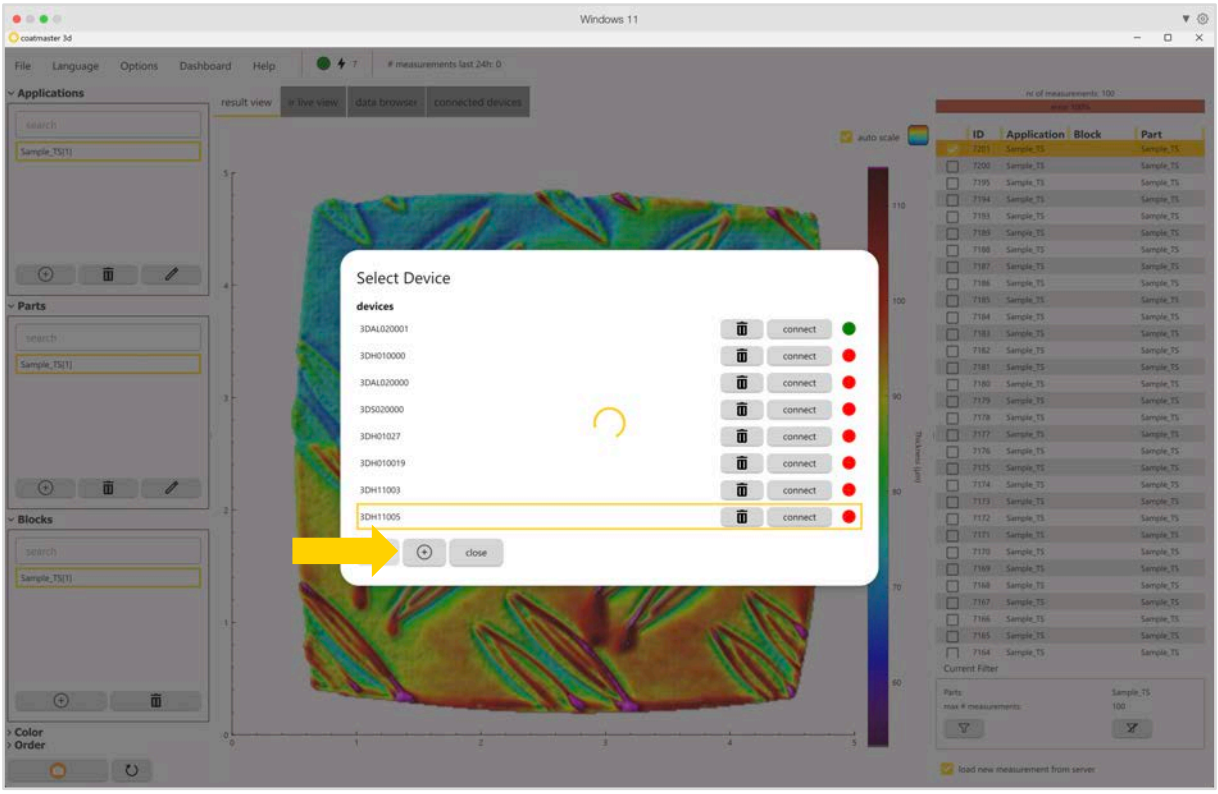

Figure16

Available functions and commands

⊕ **Add new**

Click "**Add**" to enter a new item.

5.1.1.7 Connect to device

In the **Connect to device** input window , the IP address of a transducer, which is located on the SN No. label on the back of the transducer or device, can be added to the list.

The serial number is also noted in the maintenance manual.

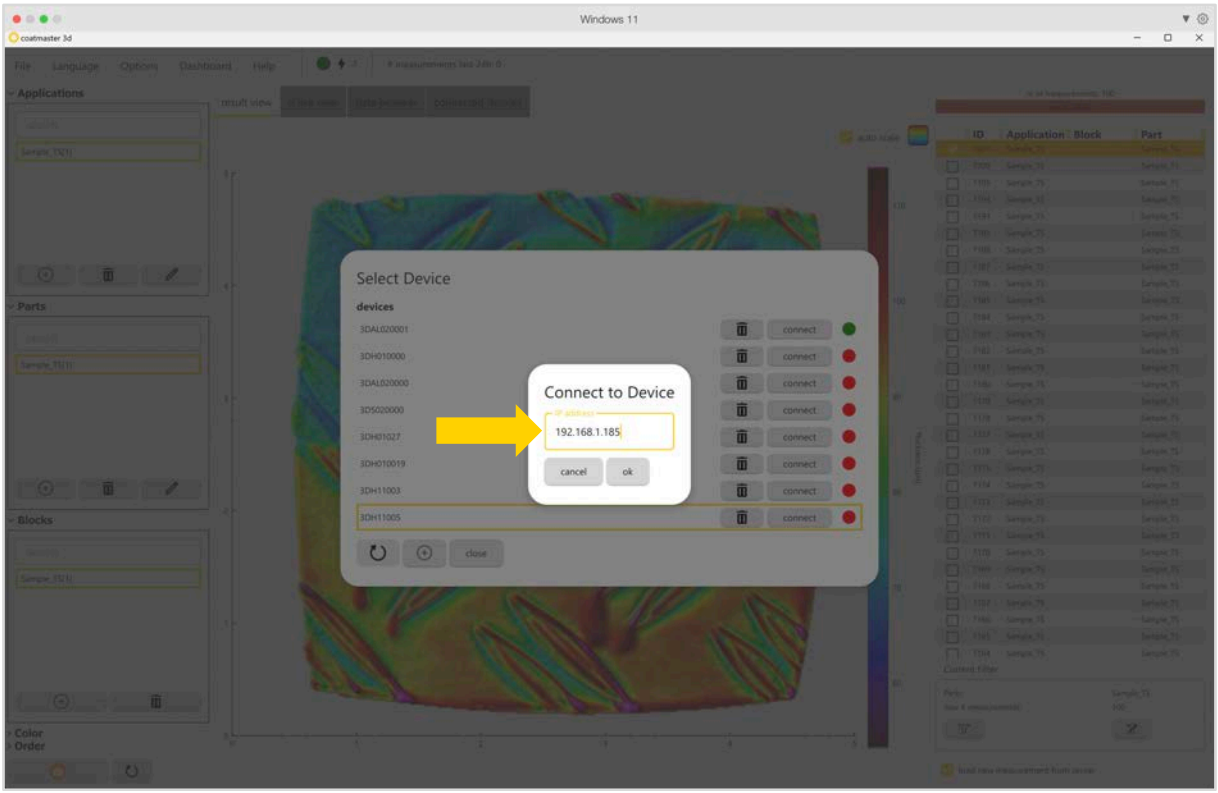

Figure17

5.1.1.8 Connect to Device IP (Verbindung zu Geräte-IP)

After entering the IP address, the command button must be clicked to ok
The action can be canceled with the command button.
cancel

Available functions and commands

✓Tick

Confirms the current selection or input.

✕Close

Cancels without any changes.

5.2 Establishing a connection step by step

Open the **"Files"** tab in the top menu bar.

Click Select **Device** to open the window.

Select the desired device from the list of devices (e.g. 3DH11005).

Click **on "connect"** – the status light will change from 🔴 to 🟢 once the connection has been successfully established.

Close the window with **"close".**

The connected device is now displayed in the main view and can be used for measurements.

5.3 Hints and tips

Make sure that the device and PC are on the **same network**.

Refresh with Refresh button ⟳.

If a device is permanently offline, check:

Power supply and network cables

IP configuration in the device

Firewall settings on the PC

Multiple devices can be connected at the same time, as long as they have different IDs.

5.4 Error messages and solutions

Problem	Possible cause	Solution
Device does not appear in the list	Network problem or incorrect IP address	Check network connection, restart device if necessary
Connection fails	Device is used by another user	Disconnect and try again
Status remains yellow	Device is not fully responsive	Cancel and reconnect
Device is constantly removed	Incorrect configuration or firmware issue	Contact support

Zusammenfassung

The **"Select Device"** dialog is the central tool for connecting and managing coatmaster 3D measuring devices. It provides a simple overview of all available devices, their status and allows direct control of connections.

5.4.1 Add new

1. Click "Add".
2. Enter the required device data (e.g. name, IP address, port, optional location/description).
3. Confirm with "Save" or "OK".
4. Check if the new device appears in the list.

5.4.2 Delete selected

1. In the list, select the device you want to remove.
2. Click on "Delete".
3. Confirm the security prompt with "Yes".
4. The device will be removed from the list.

5.4.3 Update list (reload)

1. Click on "Refresh the list".
2. The overview is reloaded; new devices/status changes are displayed.

5.4.4 Remarks

- Make sure you have sufficient rights to change the device list.
- Changes may require updating the list again.
- If a device does not appear or has been changed, check the network connection and IP address.

5.5 Backup und transfer von coatmaster 3D-Applications

The application data is stored on the coatmaster's embedded PC or server. If this PC crashes or is destroyed, the work to build the applications will be lost. It is therefore strongly recommended to save applications by exporting this data from the coatmaster to an external storage. In addition, applications can also be transferred between different coatmaster systems.

5.5.1.1 Import Applications (Import Applikationen)

Applications can be imported as files in the coatmaster-specific format.

After the import, an input window appears in which additional or optional entries and selections can be made.

The same applies to **parts** and **measurements**, which are also imported in a special format.

Usually, this opens the Windows **Explorer window**, in which the desired files can be selected from the corresponding folder and imported.

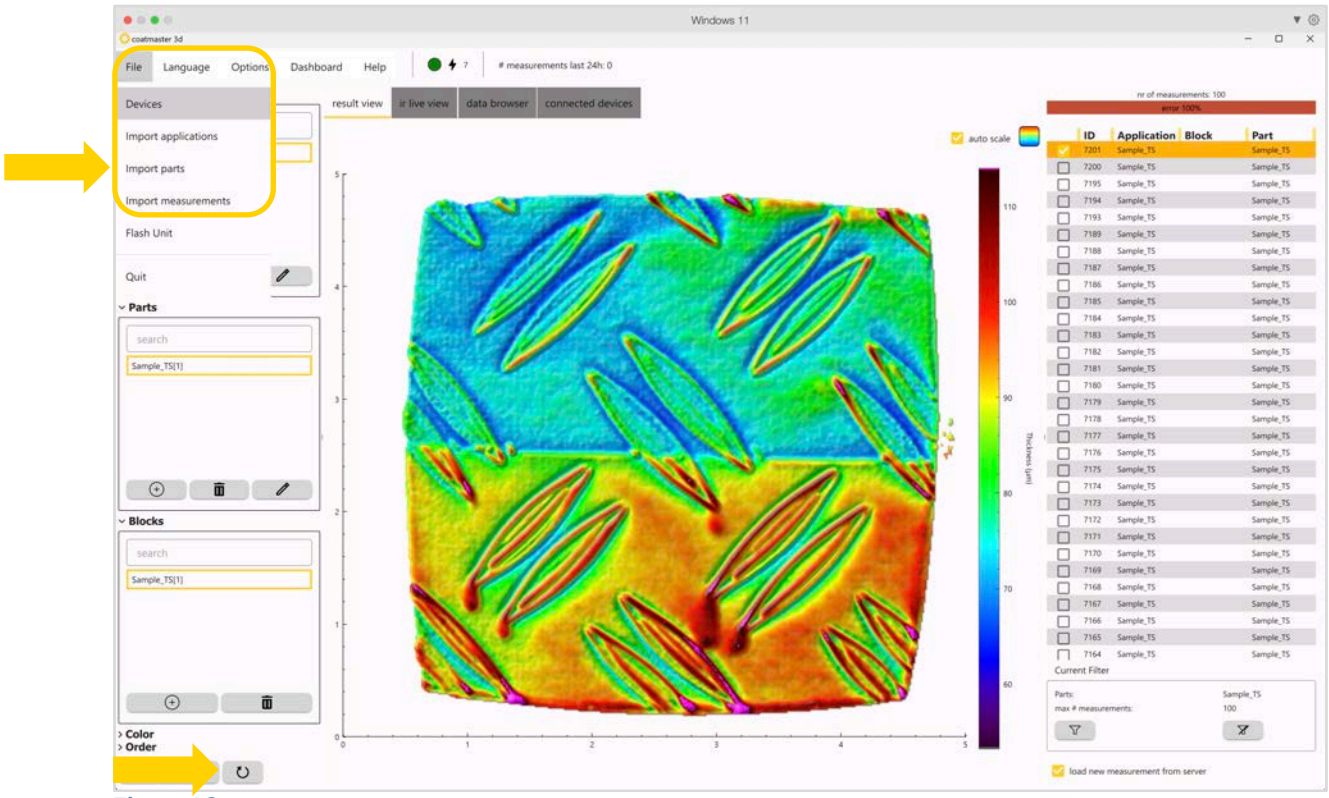

Figure18

If the imported **applications**, **parts** or **measurements** are not immediately displayed in the corresponding menu section, the view can **be refreshed via the** Refresh command button.

All you have to do is click on the **refresh** function below.

Then, all the imported files should be visible in the menu list.

Available functions and commands

Update

Click "Update" to reload the lists.

5.5.1.2 Importing Applications

To import previously exported applications, select File > Import Application (see Figure40).

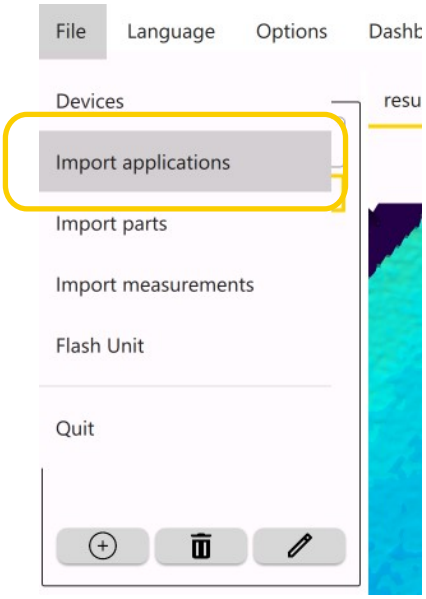

Figure40. Window for importing an application into standalone software

In the dialog box, select the application from the folder where it was previously saved and click Import. The application file is now imported and added to the lists of applications.

5.5.1.3 Flash Unit

To check the **status** of the connected **flash units,** the corresponding overview can be called up in the Files → *Flash Unit* menu.

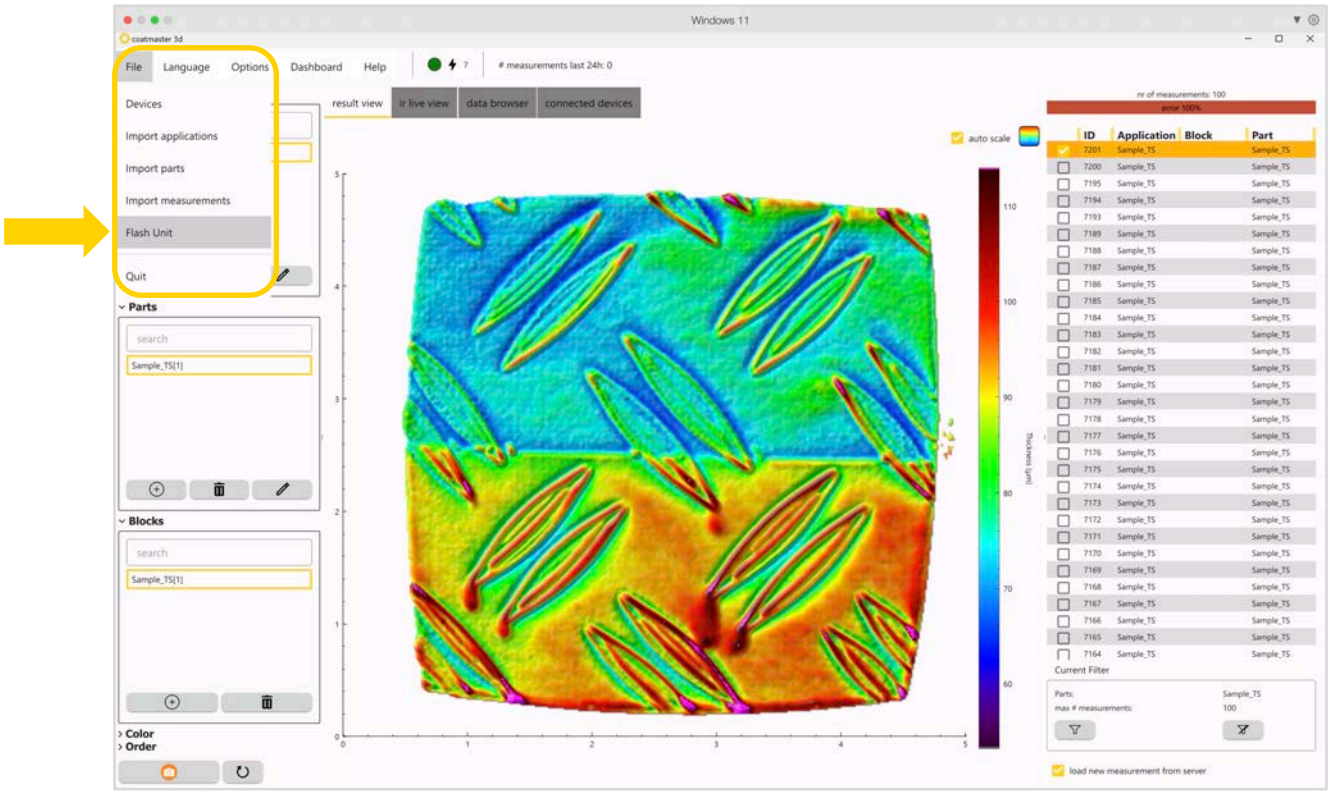

Figure19

Depending on the number of flash units used, they are listed in the **Flash Unit window** . The window provides information about the status of the **flash generator (flash generator unit).**
Furthermore, the **energy level of** the generator unit is displayed.

The dot icon under the number of the trigger channel indicates whether there is an **error** or if the flash unit is **Ready**

If the dot is green ● the flash unit is ready and there are no errors.

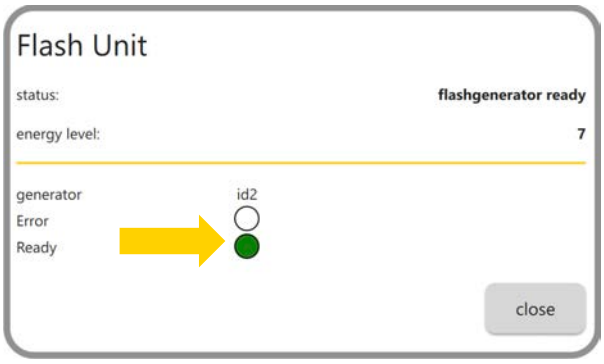

Figure20

Available functions and commands

Close

Closes the window.

5.5.1.4 Quit

To close the program properly, click on the Quit menu item .

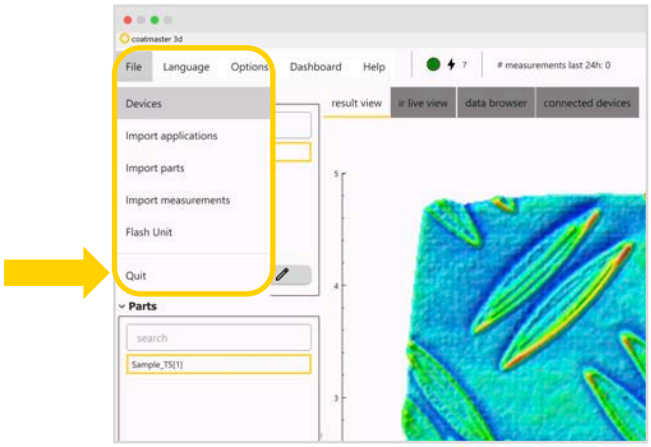

Figure21

5.6 Language menu

Clicking on one of the available languages in the **drop-down list** will automatically change the user interface.

The contents of the menus and windows are then displayed in the selected language.

In some cases, it may be necessary **to restart** the program for the language change to be fully applied.

Currently, the user can **choose between** German**,** English **and** Chinese .

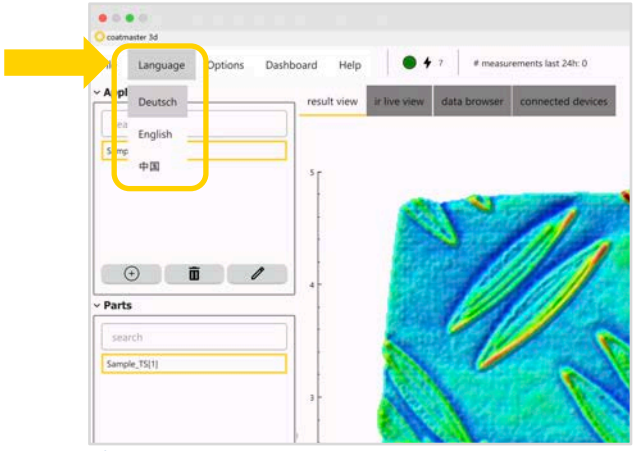

Figure22

5.7 Options Menu

The **Options** → *Settings* menu can be used to make additional or advanced settings to the program.

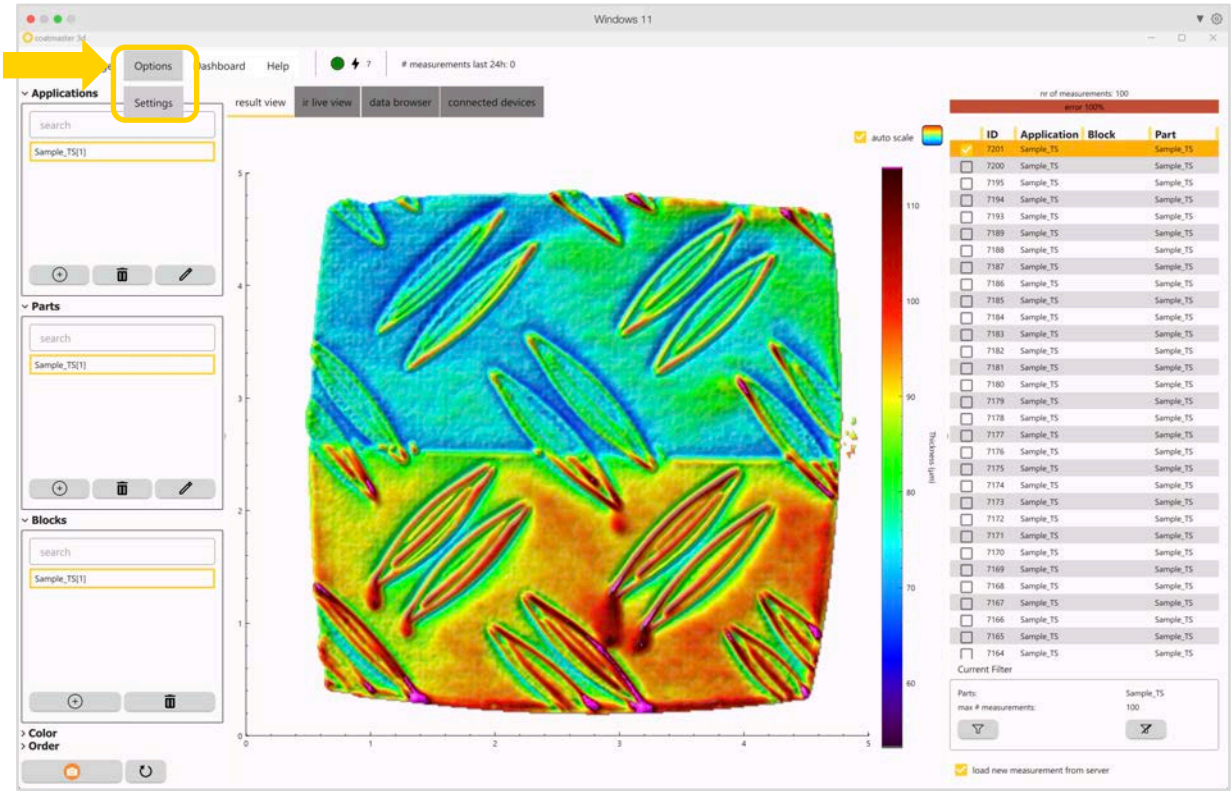

Figure23

5.7.1 Open and adjust settings

- **Open menu**
  Click **Options** in the menu bar.
- **Select settings**
  Select the Settings sub-item .
- **Make adjustments**
  In the settings window, you can customize additional or advanced program options (e.g., user level, display, network, or user interface).
- **Save changes**
  Confirm the changes you have made with **OK/Close** or **Apply**.
- **Optional: Restart the program**
  Some changes take effect only after you restart the program.

5.7.2 User Level

In the Settings settings window , different user levels can be selected. Each level is protected by its own password, except **View only**.

By default, the **view-only** level is active at startup.

In **view-only** mode, the menu bar and the **Measurement Data Management** and **Measurement Data Management** areas are displayed. The **Application Management** area is not available in **View-Only** mode.

To switch to the **Standard** or **Service** level , select the desired level with the mouse and then enter the corresponding password:

- **Standard-Level**: Passwort → admino41
- **Service Level**: Password → xxxxxxxx (only for service technicians)

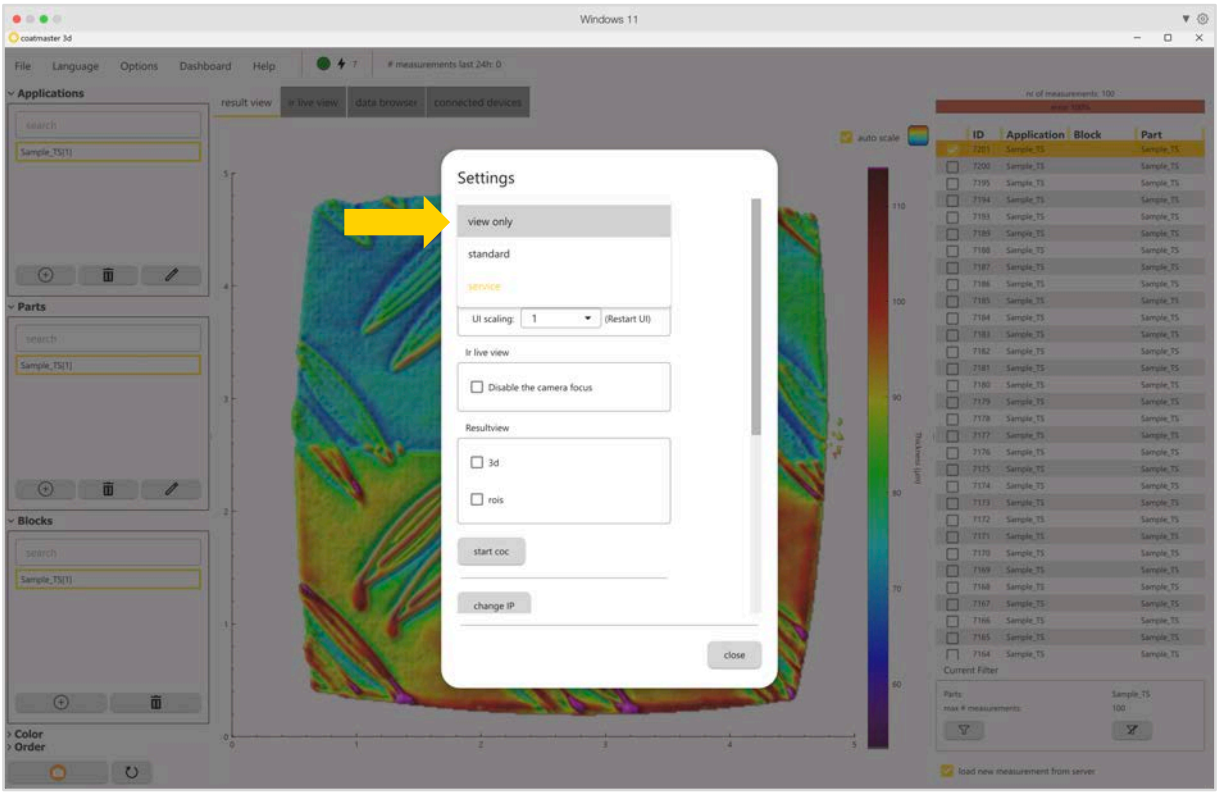

Figure24

Available settings for View only

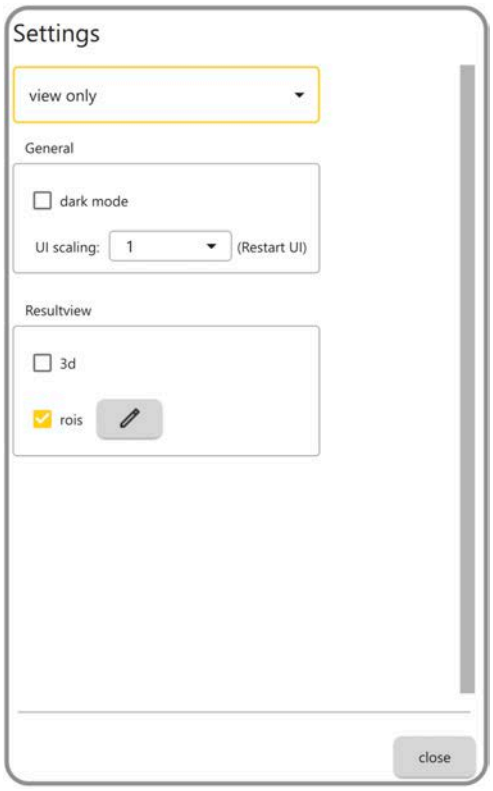

Figure25

General

Dark Mode: Enable or disable dark viewing.

UI scaling: Selecting the UI scaling factor.

Result View
3D display: Turn the three-dimensional view of the results on or off.

ROIs (Regions of Interest): Turn the display of areas of interest on or off.

Figure26

Available settings for Standard

Grundmodus: *View only*
In standard mode, the following parameters are available in addition to the view (*view only*):

Advanced Properties: *Property 1-3*

In addition, up to three individual properties can be defined. These are used to further **categorize and filter** measurements.

Property 1 Name – frei definierbar, z. B. *Color*
Property 2 Name – frei definierbar, z. B. *Order*
Property 3 Name – freely definable, for further individual purposes

How it works
After pressing the **Set command button,** the defined properties are adopted.
They will then appear in →**the Application Management** section.
There they can be displayed as a **menu that can be opened or collapsed** with the down arrow key.

The desired property is selected with the mouse and assigned to a subsequent measurement.

Benefits
Flexible adaptation of the measurement categorization to individual requirements.
Easy to add additional metadata without fixed specifications.
Improved filtering and evaluation of measurements.

Available settings for Service
As standard, the following settings are also possible.

In addition to the features of Standard Mode, the following options are available in Service Mode:

Figure27

Start COC
Performs the **calibration process** .
Allows you to select specific presets and filters (e.g., repeat measurements or special calibration measurements for a necessary COC).

Change IP
Customization of the individual **IP address of the measuring head**.
By default, the transducer is delivered with a **static IP** (noted on the serial number sticker).
Die IP kann an die jeweilige **Netzwerkkonfiguration des Kunden** angepasst werden.

Raw data
Enables the **collection of raw data** on measurements.
This data enables the coatmaster team to perform **failure analyses** or create an **optimized calibration** for the customer.

Select path
Set a **storage path** for downloaded files (of any kind).
If this is not possible individually via **Windows Explorer** , a fixed path can be specified here.

Service
Access for service technicians to:
Service Date **Reset**

5.7.3 Dark mode

In dark mode, the screen colors are displayed inverted: bright areas appear dark (e.g. black or dark gray) and the font and icons are displayed in light colors.

Pros:

- More pleasant on the eyes in low ambient light
- Reduced glare
- Energy savings for displays with OLED/AMOLED technology

Note:
If the ambient brightness is high, readability in dark mode may be limited.

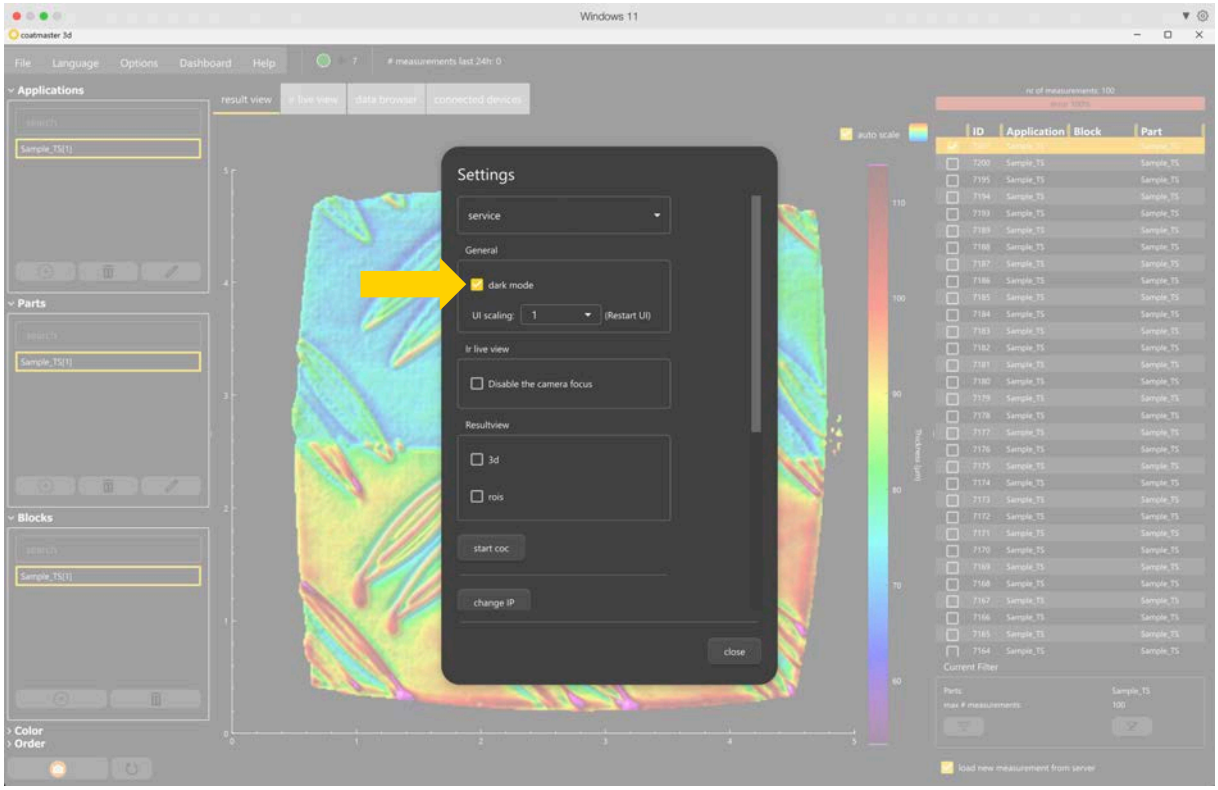

Figure28

5.7.4 UI scaling

UI scaling adjusts the size of text, icons, and controls to match the screen resolution. This keeps content easy to read and easy to use – whether on small laptop displays or high-resolution monitors.

Better readability on high-resolution displays

- Optimal usability on all monitor sizes

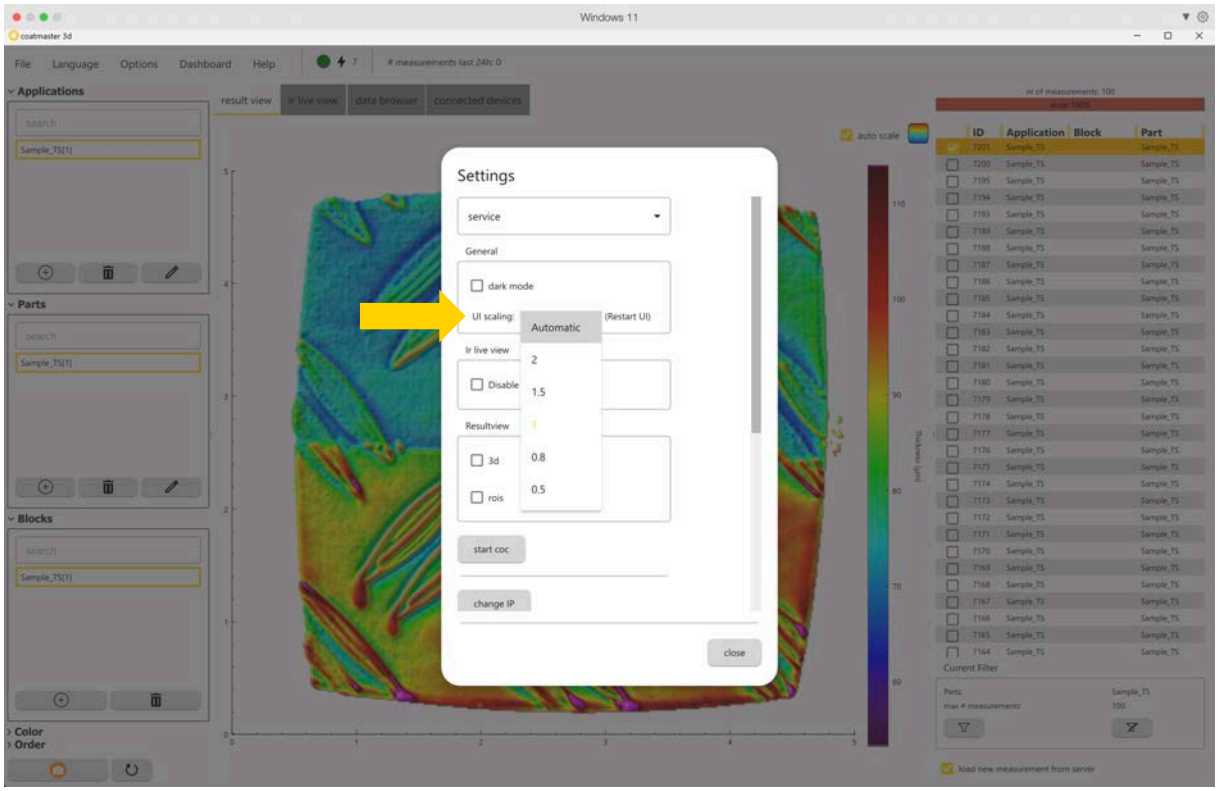

Figure29

5.7.5 3D Presentation

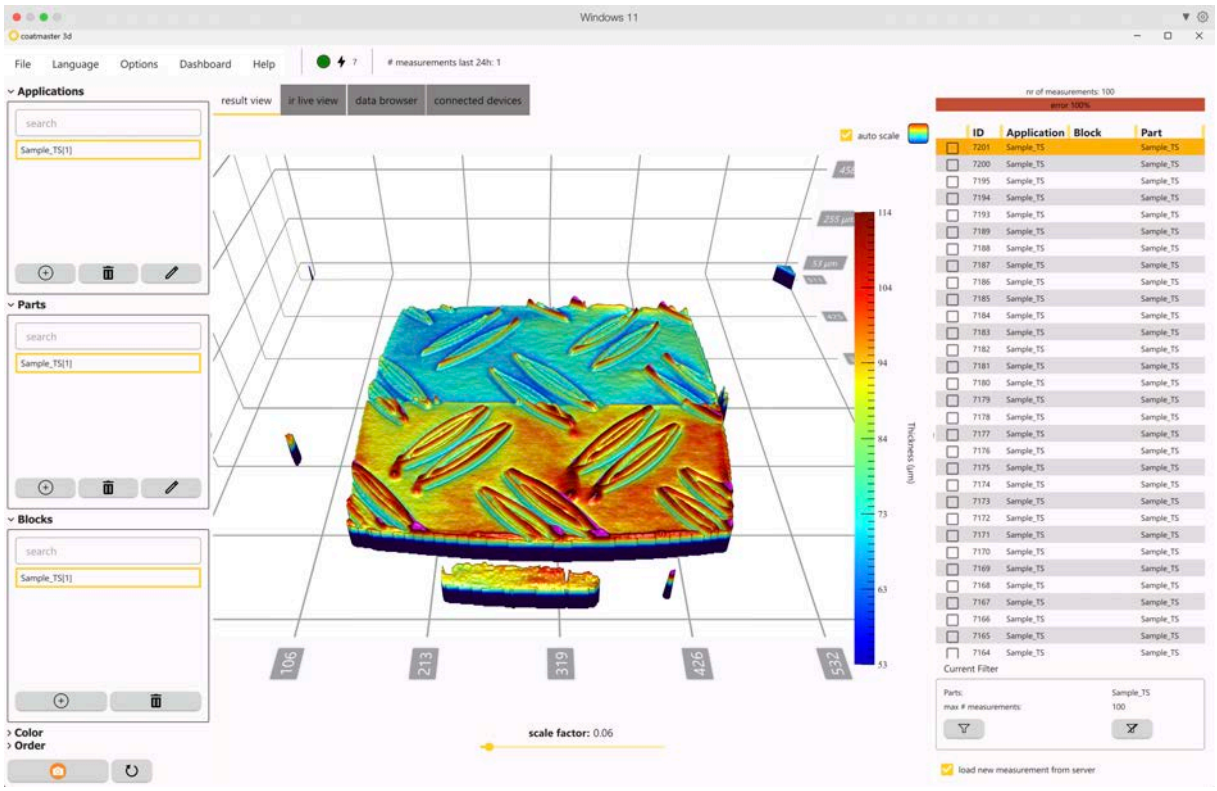

Figure30

The measurement you took after pressing the "Measure" button is automatically displayed on the "Results View" tab (see Figure30). The thickness mapping is displayed in false colors and by pointing the mouse at any measuring point, the measured thickness value (here 79 microns) can be displayed.

You can zoom in or out of the results by positioning the mouse on the map and scrolling with the mouse.
You can move the map by holding the left click with the mouse and moving the map.
You have 2 options to change the color scale and for which the displayed results are automatically adjusted:

5.7.6 ROIs

You can freely define Regions of Interest (ROI) to display geometric statistical values (minimum, maximum, average, and standard deviation of the measured values).

Select the ROI button (see Figure36) and click the ADD ROI button.

A window will appear with the settings of the ROI. Select the ROI form and name, and confirm with OK.

Right-click on the thickness map and move the poter to define the size of the ROI

You can change the size of the ROI by hovering over one of the corners and left-clicking and adjusting the size accordingly.

The position of the ROI can be freely adjusted by left-clicking in the ROI and moving the mouse cursor to where you want to position the ROI.

Right-click on the ROI to delete an ROI (see Figure37).

If you enable and disable the ROI button, the latest ROI design will be displayed.

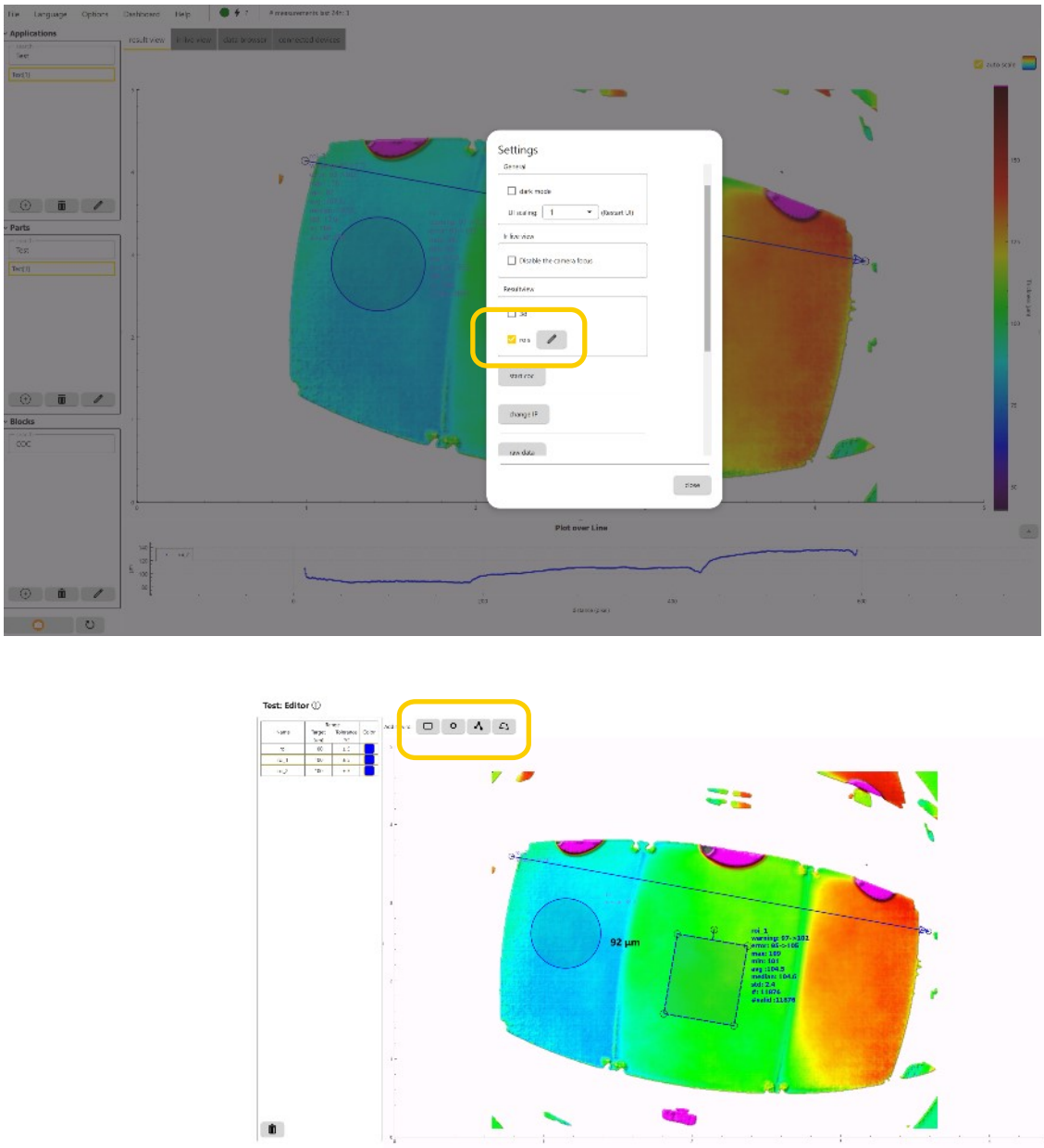

Figure31

If you select the 3D View option, as shown in Figure35, you can change the result view to a 3D shape. If you position the moss at a certain point, the actual thickness value will be displayed. To zoom in and out, there is a slider in the right part of the window called the scale factor. You can rotate the image by pressing the right mouse button and moving the image.