



 INSVISION
AlphaScan Series

User Manual

Version 3.0_2025

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1. Introduction

AlphaScan AI metrology-grade 3D scanner uses three laser line modes to cover a variety of scenarios to obtain the data of the object surface. When the operating environment changes, the mode can be switched in real time to adapt to different environments to achieve better measurement results. Compared with other handheld 3D scanners, The scanning of AlphaScan is more accurate, and the real-time meshing algorithm is used to convert the pre-processed data into a mesh model in real time, making the operation more convenient.

AlphaScan has the advantages of being lightweight and easy to operate as well as the excellent measurement accuracy. It is suitable for use in various industrial production environments and can provide more efficient, accurate and convenient scanning.

2. Precautions

About AlphaScan

- Please don't disassemble or assemble the device without permission
- Please use the device with our software
- Please use the device with the recommended power adapter

2.1 Usage

Pay attention to the following matters, otherwise it may cause damage and failure to the device

- Please avoid large vibrations and collisions when using scanner

AlphaScan is a high-precision device with a precise internal structure. Severe vibration or collision may damage the structure and the optical part.

- Please use this device within the recommended temperature and humidity
- Make sure the suitable environment, the power socket is well grounded, and the power interface is intact

2.2 Maintenance matters

- To clean the device, please use a cotton cloth dipped in diluted neutral detergent, wring it out and wipe it

Please do not use a damp cloth, volatile oil, thinner or other liquids to wipe the device, otherwise it may cause damage to the appearance of the device, and in serious cases, it may cause damage to the device parts.

- Store the device in the instrument case in a cool and dry place with a relatively stable temperature.

Avoid the following places:

Places with too high or too low temperature and humidity

Dusty places

Places with corrosive or flammable gasses and liquids

3. Product Hardware

This chapter mainly focuses on AlphaScan and some supporting hardware

3.1 Instrument box composition

(1) AlphaScan 3D scanner body. The appearance of the scanner is shown in Figure 1.

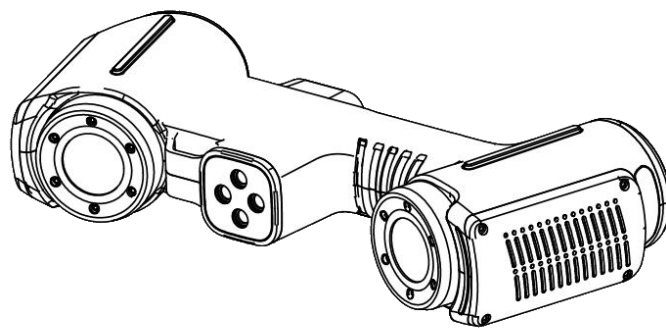


Figure 1:AlphaScan 3D Scanner

(2) Calibration plate: Used to quickly calibrate the camera parameters of the scanner before using. It is recommended to use the calibration plate for camera calibration before each accuracy measurement. The appearance of the calibration plate is shown in Figure 2.

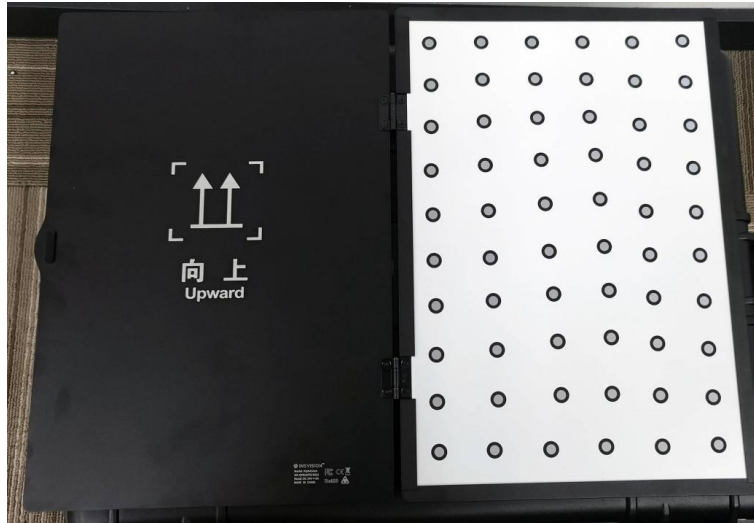


Figure 2: Rapid Calibration plate

(3) Marker box: A number of markers are placed inside the box. The markers are used to stick on the scanned object to facilitate the scanner to locate. The appearance of the marker box is shown in Figure 3.



Figure 3: Marker box

(4)U disk and Dongle box: used to place U disk and dongle. The U disk mainly stores software installation packages, Dongle is used for software protection, and realizes the function of software limited time/limited times/limited function modules through authorization. The appearance of the box is shown in Figure 4.



Figure 4: U disk and Dongle Box

(5) Integrated Cable Harness: includes an information data transmission cable and a power adapter. The information data transmission cable features a Type-A interface for connecting to a computer to transfer data, and a Type-B interface for connecting to the scanner to receive data. The power cable is equipped with a 4-pin aviation connector that interfaces with the scanner, designed with a snap-lock mechanism to prevent disconnection during use. The power adapter offers multiple plug options (shipped according to the customer's region), as shown in Figure 5.





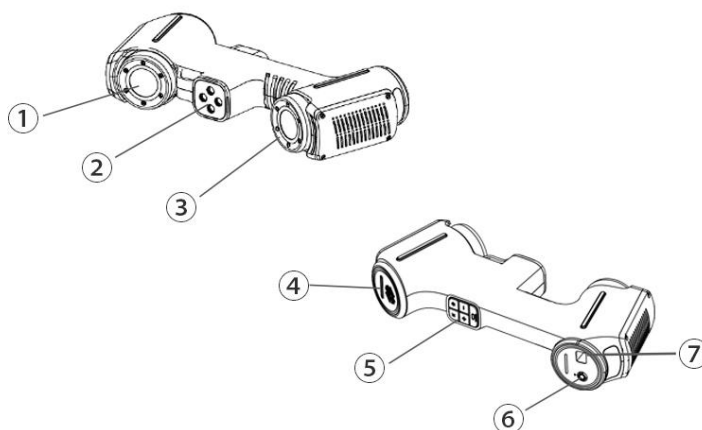
Figure 5: Integrated power&data cable (left) Power adapter (right)

(6)Related documents: including test reports, product warranty cards, user manuals, etc. It is generally defaulted to electronic version and stored on the U disk.

3.2 Scanner Components

3.2.1 Scanner structure

The detailed description of the scanner is shown in Figure 6



- ① Camera A ② Laser Unit ③ Camera B ④ Indicator Lighting
⑤ Control Buttons ⑥ USB Cable Power Interface ⑦ USB TYPE-B

Figure 6: Scanner details

3.2.2 Button Description

Key Name	Functional Description	
④Indicator lighting	Red: Not connected, Green: Connected but not operating, Light blue: Connected and in operation, Dark blue: Connected and operation paused.	
⑤Control buttons	M button	Click to switch between marker scanning mode and laser scanning mode
	+/- Button	Click to zoom view or Click to adjust exposure
	☆ button	Single click to toggle +/- button function (view or exposure adjustment)
	 button	Single click to start/stop scanning & Double click to switch laser type
⑥Power interface	Used to insert 4pin aviation plug power cable	
⑦TYPE B interface	Used to insert Type B interface data cable	

3.2.3 Technical Specifications

Model		AlphaScan	AlphaScan Elite
Scanning Mode	High-Speed Scanning	26 blue laser lines	50 blue laser lines
	Precision Scanning	7 blue laser lines	7 blue laser lines
	Deep Hole Scanning	1 single blue laser line	1 single blue laser line
Accuracy		up to 0.02mm	
Measurement Rate		5,400,000 measurements/s	7,100,000 measurements/s
Scanning Area		up to 650mm×550mm	
Laser Class		Class II (Eye Safe)	
Resolution		up to 0.01mm	
Volumetric Accuracy		0.015mm+0.035mm/m 0.015mm+0.025mm/m (Working with photogrammetric scale bar)	
Working Distance		300mm (200mm fine mode)	
Depth of Field		550mm	
Output Formats		STL, PLY,TXT etc.	

Operating Temperature	-10°C to 40°C
Interface Type	USB 3.0
Minimum computer configuration	System: Win10 and above, 64-bit; Graphics card: NVIDIA GTX, RTX4060; Video memory: 8 GB; Processor: $\geq$ I7-13700h and above; Memory: $\geq$ 32 GB

4. Product Software

To use AlphaScan 3D scanner, you need to install the scanning software 3D INSVISION. The scanning software 3D INSVISION is a software specially developed for 3D scanner data processing. It also has real-time control, data optimization and other functions, aiming to facilitate users' daily use. This chapter mainly describes the software's operating environment, installation steps and operations.

To achieve the best performance and compatibility, please update your Windows operating system and graphics card driver to the latest version before installing 3D INSVISION software.

4.1 Software Installation

This section mainly describes the steps to install the scanning software "3D INSVISION.exe" installation package on the computer. Here, the installation in the recommended configuration environment is used as an example.

- (1) Double-click to open the installation package "3D INSVISION.exe" on the U disk, as shown in Figure 7.



Figure 7: Screenshot of the installation package

- (2) The software installation interface will pop up. Select the language and click "OK," as shown in Figure 8.

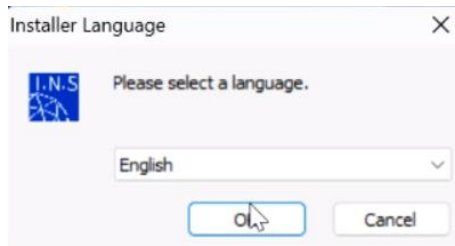


Figure 8

(3) Follow the instructions on the Setup Wizard and click "Next," as shown in Figure 9.



Figure 9

(4) Select the installation path; the default path is used here. Click "Install," as shown in Figure 10.

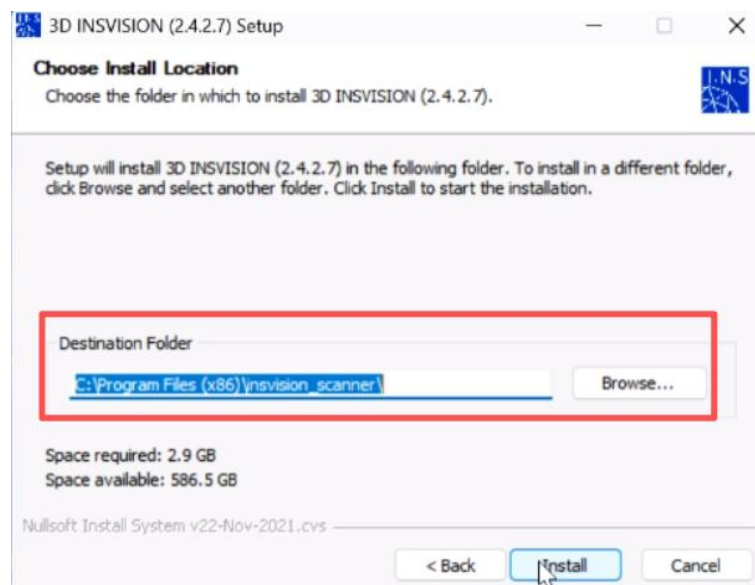


Figure 10

(5) The installation loading interface will pop up. Please wait patiently, as shown in Figure 11.

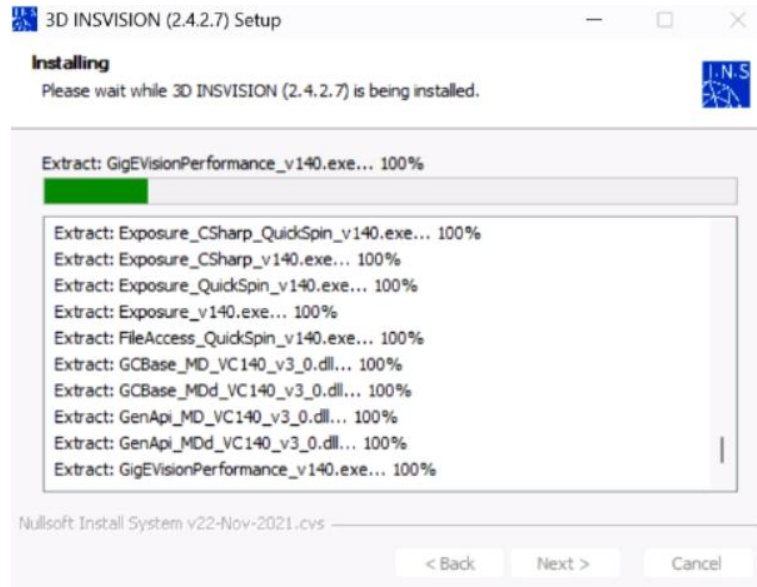


Figure 11

(6) After the installation is complete, click "Finish" to close the Setup Wizard, as shown in Figure 12.



Figure 12

(7) Upon completion of the installation, a shortcut for the "3D INSVISION" software will appear on the desktop, as shown in Figure 13.



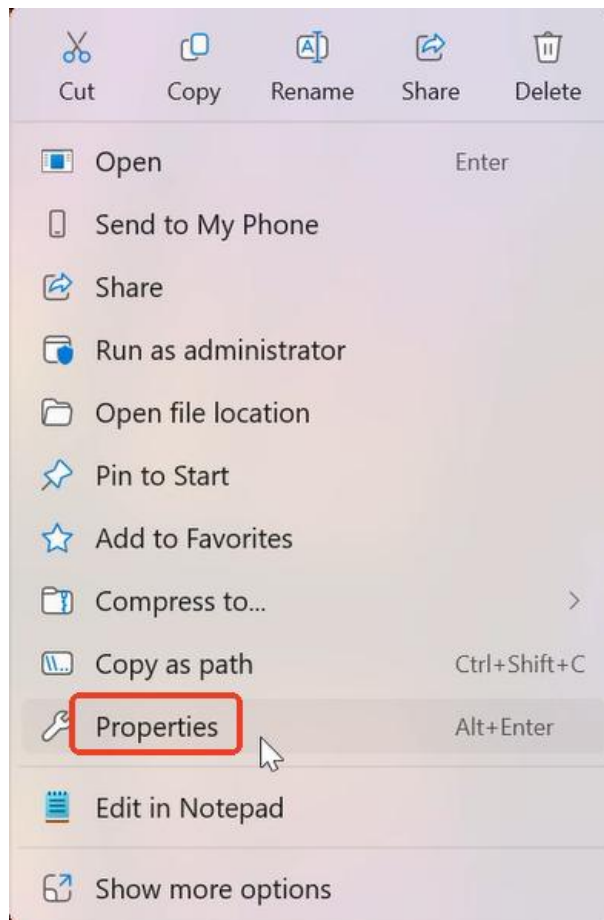
Figure 13

4.2. Software operating environment configuration

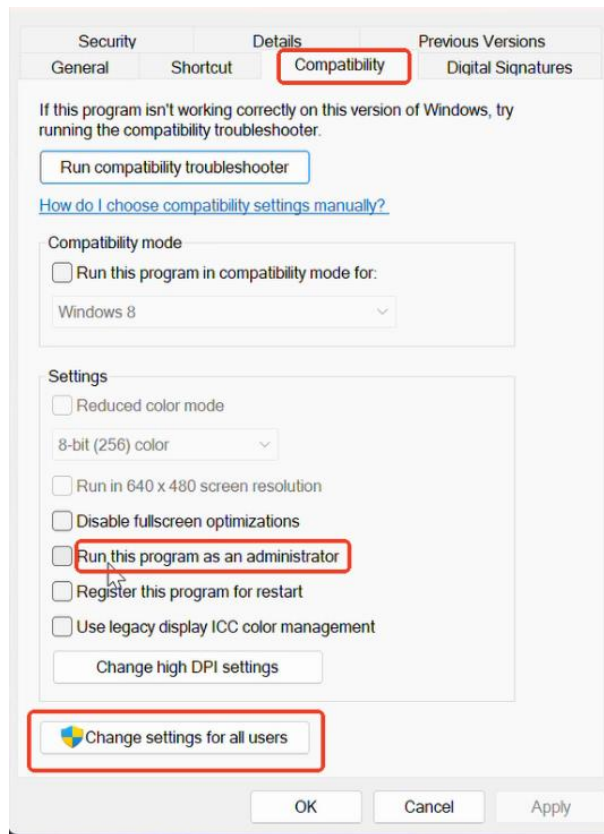
After the software is installed, in order to ensure the smooth operation of the software, the software operating environment needs to be configured. This section mainly describes the configuration of the computer operating environment after the scanning software "3D INSVISION" is installed.

Run with administrator privileges:

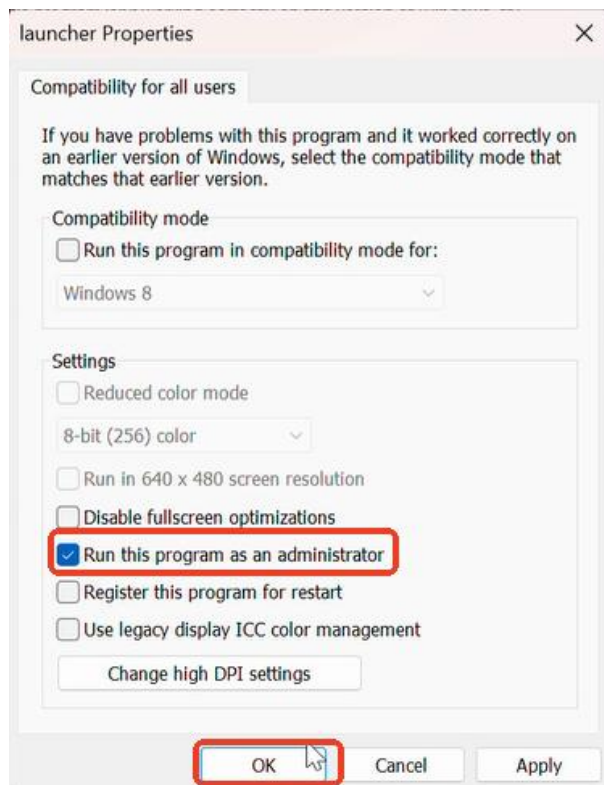
(1) Right-click the software icon and click "Properties" .



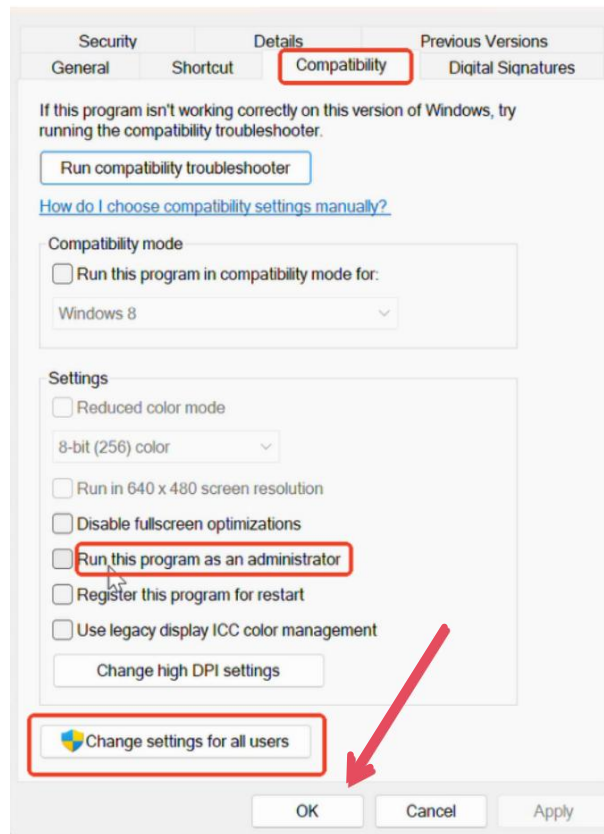
(2) In the tab bar of the System Properties window, select the "Compatibility" tab, check the "Run this program as an administrator" checkbox, and click the "Change settings for all users" button.



(3) In the pop-up settings window, check "Run this program as an administrator" and click the "OK" button.

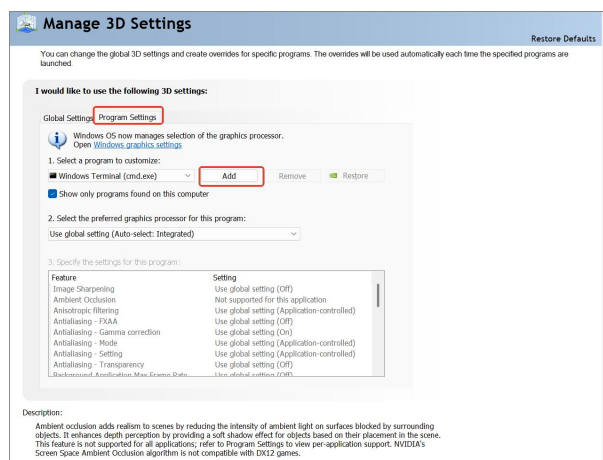


(4) Click the “OK” button



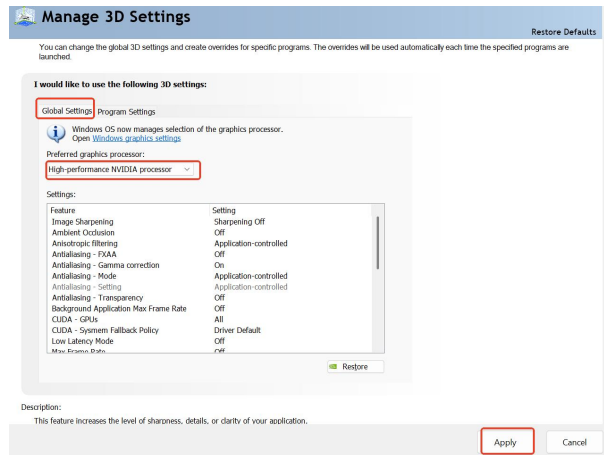
Run with GPU:

(1) Right-click on a blank area of the desktop and select "NVIDIA Control Panel" from the pop-up menu. Select "3D Settings" on the left taskbar of the pop-up dialog box. Select "Manage 3D Settings" at the bottom. Select the "Program Settings" tab on the right. Click the "Add" button in the column for selecting the program to be customized.



(2) Find the 3D INSVISION software and add it.

(3) Click the "global setting" tab on the right and select "High-performance NVIDIA processor" in the Select the preferred graphics processor for this program column (if this option is not available, skip this step). Finally, click "Apply".



After completing all the above steps, restart the computer, plug in the dongle, start the software, and start working.

4.3. Initial Configuration Management

Each device has corresponding configuration parameters. Double-click "3D INSVISION" to enter the software and we are ready to configure the parameters, as shown in Figure 14.



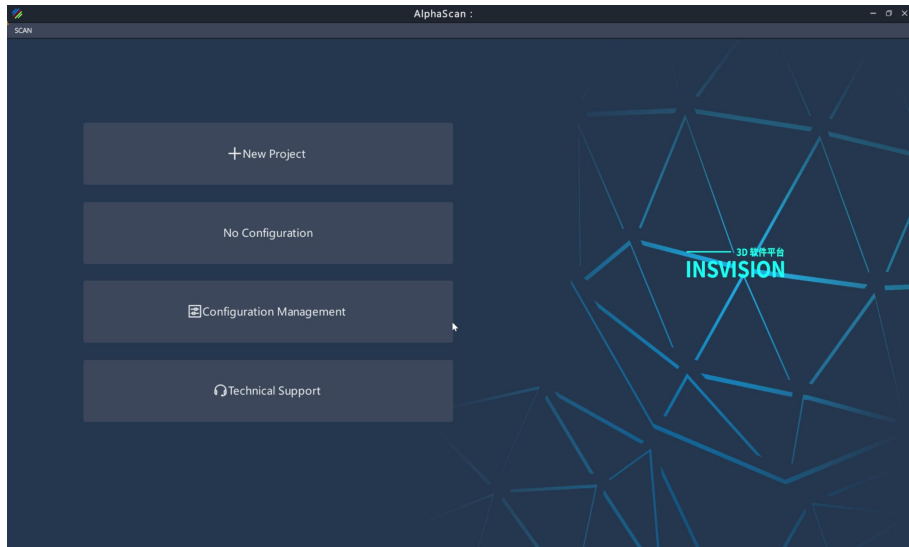


Figure 14 : Screenshot of the software interface

(1)Click "Configuration Management", then click "Add Device", and a pop-up window will appear to select a folder, as shown in Figure 15.

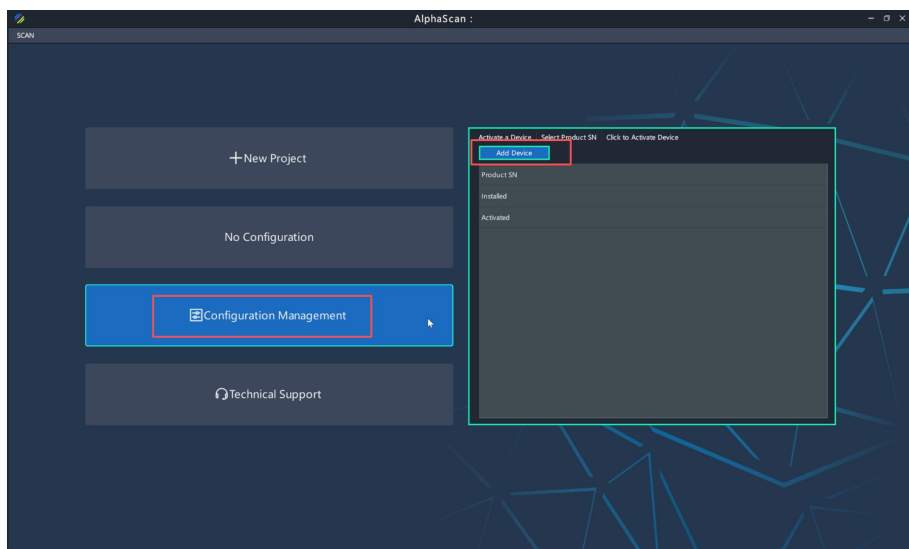


Figure 15

(2) Select the corresponding configuration compressed package on the USB drive and click "Open", as shown in Figure 16.

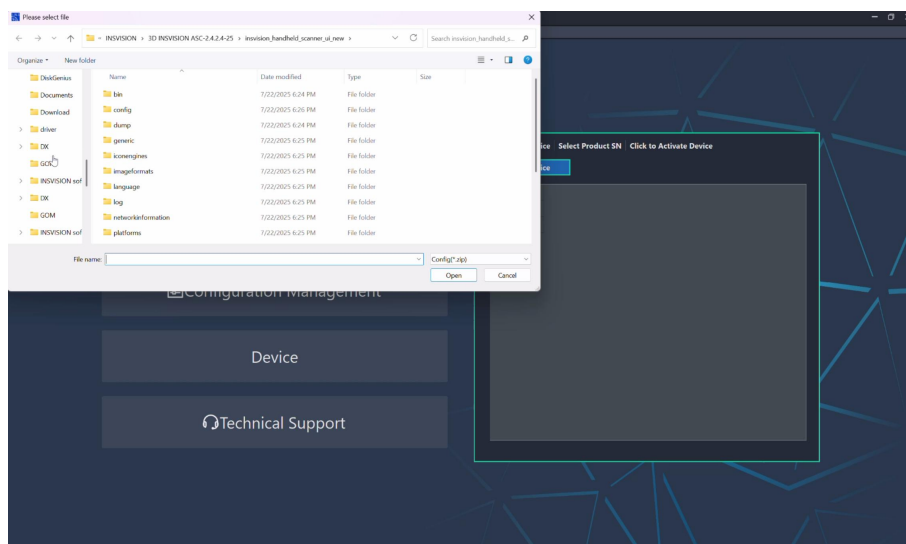


Figure 16

(3) The configuration file you just selected will appear under Installed, as shown in Figure 17.

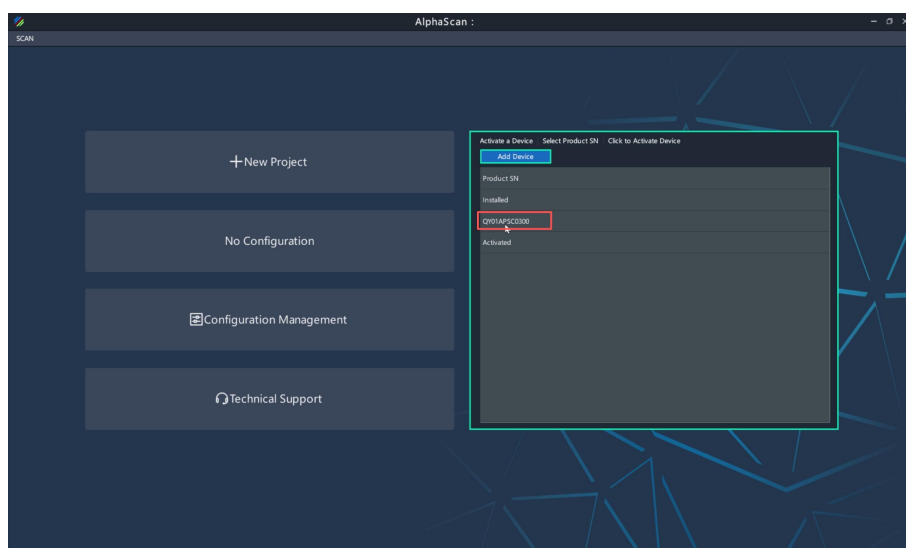


Figure 17

(4) After clicking the configuration file under "Installed", the configuration file appears under "Activated", indicating that the activation is successful, as shown in Figure 18.

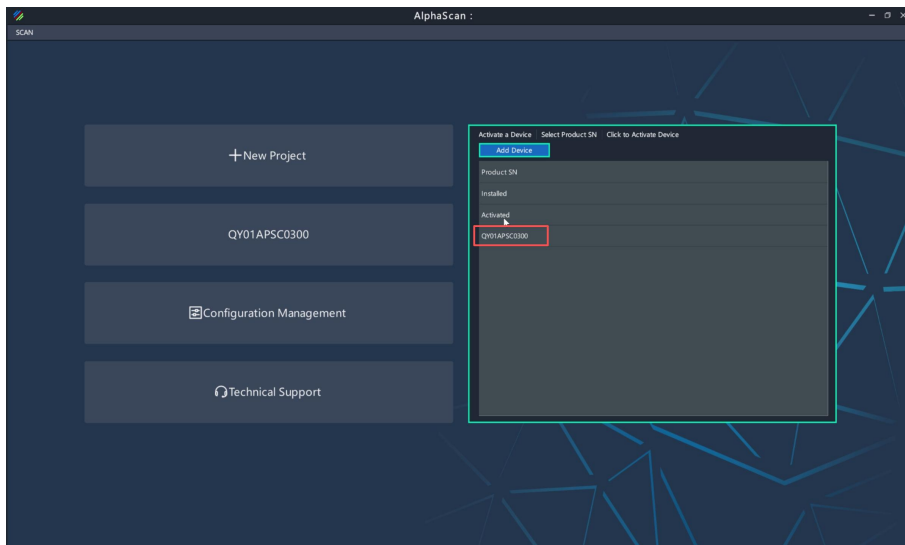
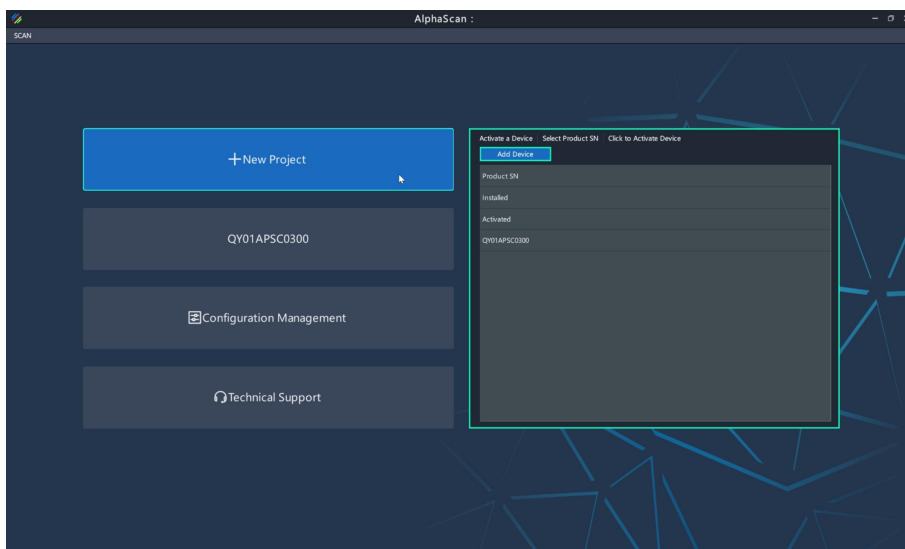


Figure 18

(5) After successful activation, click "New Project" to enter the home page. After a few seconds, if the camera connection status changes to "Connected", it means the connection is successful, as shown in Figure 19.



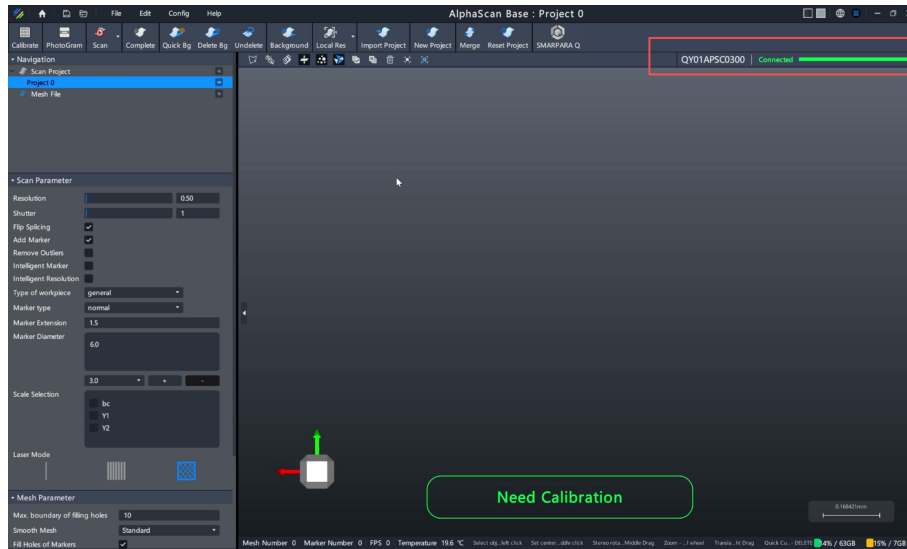


Figure 19

4.4. Software Icon

This chapter mainly describes the software interface and related icons. The software homepage interface is shown in Figure 20 .

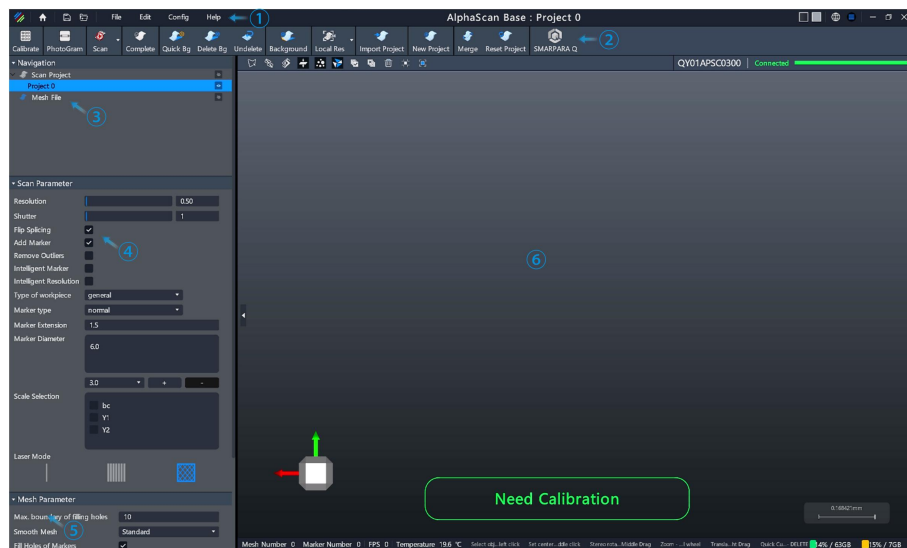


Figure 20

①Menu bar ②Work bar ③Navigation bar ④Scan parameter bar ⑤Mesh parameter bar ⑥Scan display area

4.4.1. Menu bar button description

Menu bar button	Icon	Functional Description
document		Import ① Import mesh: After clicking "Import mesh", the screen displays the file directory reading interface. After selecting the corresponding mesh file, the software display area displays the relevant mesh file. ② Import marker: After clicking the "Import marker" button, the screen displays the file directory reading interface. After selecting the corresponding marker point file, the software displays the relevant marker point file. ③ Import project: After clicking the "Import project" button, the screen displays the file directory reading interface. After selecting the corresponding project file, the software displays the relevant project files. ④ Import Engineering:After clicking the "Import Engineering:" button, the screen displays the file directory reading interface. After selecting the
	File	corresponding "Engineering" file, the software displays the several scan projects from the "Engineering". Export ① Export mesh: After clicking the "Export mesh", the screen displays the file save directory interface, select the save path, enter the file name, and after the system prompts that the save was successful, the file will be saved to the selected path. ② Export cloud point: After meshing, select the mesh file and click "Export point cloud" to export the corresponding point cloud file. ③ Export marker: After clicking the "Import marker" button, the screen displays the file directory reading interface. After selecting the corresponding marker point file, the software displays the relevant marker point file. ④ Save project: After clicking the "Save project" button, the screen displays the

		file directory save interface, select the save path, enter the file name, and after the system prompts that the save was successful, the file will be saved to the selected path. ⑤ Export all projects: Export each scan project and save them as separate "project" files. ⑥ Export Engineering: Compress all scan project into a single Engineering file and export.
Edit	Edit	① Fill holes:Select a mesh file (hole filling operations only support PLY format,if you import mesh file from another place), click the "Fill holes" button to enter the hole filling mode, and the hole filling interface will be displayed in the middle of the screen. The red area is the area that can be filled. Move the mouse to the red area and it will turn green, click "green" area to fill the hole. After the operation is completed, click "Exit Fill Hole" on the left to exit. ② Calculate normal vector:After meshing, select the mesh file and click "Calculate normal vector" to calculate the normal vector.
Configuration	Config	① Environment check:After clicking the "Environmental detection" button, the environmental detection result window will pop up in the center of the screen (displaying the detection type, current device information, detection results, and suggestions), as shown in Figure 21. ② Detailed Configuration:In the detailed configuration, you can switch the language, font, and font size. ③ Warm up:The software automatically activates the laser and fill-light, enabling the device to reach the optimal temperature more quickly. Once the target temperature is achieved, Click the scan button to stop scanning and reset the project. Then you can proceed to calibration.
help	Help	① About:After clicking the About button, you can obtain the company's service hotline, contact information, email, address and other information.

		② Event Log: Used to record software log operations when issues arise.
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Environment check result			
Type	Device Information	Result	Suggestion
CPU	Intel(R) Core(TM) i9-14900HXMaximum number of threads:32		CPU with 8 cores and 16 threads above 2.5GHz recommended, otherwise it will affect the speed
GPU	NVIDIA GeForce RTX 5060 Laptop GPU		GPU with minimum 4GB VRAM and NVIDIA brand recommended
RAM	63.71GB		RAM more than 32GB recommend, otherwise it will affect the speed. Software would crash with RAM below 16GB
virtual memory	25/68GB		When the remaining virtual memory space is no more than 2GB, it is recommended to restart the computer
Dongle	Correct Dongle remaining08Day		No dongle or authorization file expired, Please contact manufacturer
Last Calibration	Fast Calibration completed 2025-12-3		Please recalibrate before use.
Operating System	windows 11		Windows 10 Recommended

Figure 21

4.4.2. Taskbar Button Description

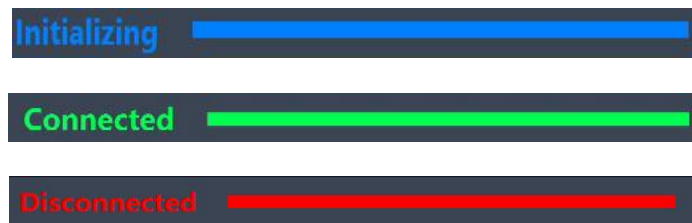
Taskbar Buttons	icon	Functional Description
calibration		Click the calibration button to enter the quick calibration interface, and then you can perform the quick calibration operation. After the quick calibration is completed, the current accuracy will be displayed.
Photogrammetry		Select the corresponding scale from the " scale selection " in the scan parameter menu. Click to select the photogrammetry mode.
scanning		After clicking, the "marker scanning" will start by default. You can click the inverted triangle on the right side of the scan to select the cloud point scanning and marker scanning.
Complete		Click the "Complete" button to end the current scan, automatically complete the current scan task, and display the corresponding cloud point file.

Meshing		After clicking the "Meshing" button, the current cloud point project will be automatically meshed and post-processed.
Quick Background		Click to automatically create a background plane, recommended before scanning cloud point.
Delete Bg		Click Delete Background to delete the background plane selected in the left navigation bar.
Undelete		Clicking "Undelete" will undo the delete operation.
Background		After adding the background plane, scanner will only scan the part above the plane.
Local Res		Click Local Resolution and enter the value. Click Apply to set the local resolution for the selected area. You can also click the drop-down arrow on the right side of the icon to set the default local resolution.
Import Project		After clicking Import Project, a window will pop up to select the folder location
New Project		Click New Project to add an empty project in the left navigation bar.
Merge		Click Merge to open the interface, where you can merge two projects
Reset Project		Click Reset to clear all scan projects in the navigation bar. But please Click "Scan" to pause or click "Complete" to finish before resetting the project.

4.4.3. Connection Status Bar

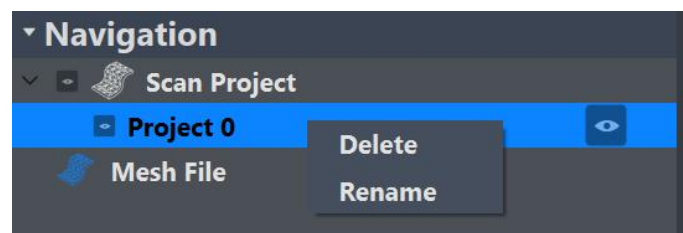
The connection status bar can be used to view the serial number and connection status in real time. The connection status is divided into " Initialization " , " Connected " , and " Disconnected " , as shown in the figure.

When you initially open the software and set up the configuration file, the status will change from " Initializing " to " Connected " . After it displays " Connected " , you can start calibration and scanning. If the camera status is " Initializing " or "Disconnect " for a long time, it may be that the scanner is not connected or the scanner configuration file is abnormal.



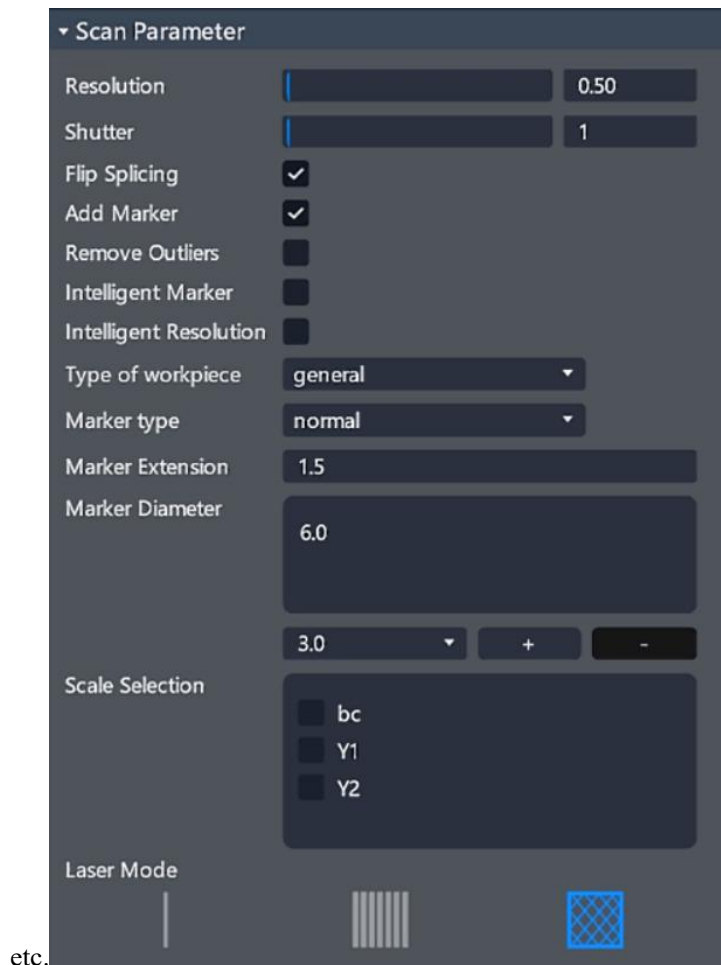
4.4.4. Navigation Bar

The navigation bar consists of Scan Project and Mesh File. The background plane is in the drop-down list of the scanning project to which it belongs. Click the arrow on the left side of the project name to expand the background plane. Right-click the project or background plane and you can delete or rename them.



4.4.5. Scan parameter column

Scanning parameters are often adjusted before scanning, including the resolution, shutter, laser mode,



etc.

(1) Resolution: The resolution is the distance of cloud point. The smaller the value, the finer the detail of workpiece. The default value is 0.5.

(2) Shutter: The shutter is the exposure of the camera and can be adjusted in real time when scanning objects with different material surface.

(3) Flip splicing: After checking it, the flip splicing function will be enabled in the scanning marker mode. This mode allows the path to scan the mark point discontinuously, suitable for scanning objects with thin sidewalls.

(4) Add Marker: This option, available after marker scanning and before laser-line scanning, determines whether markers are recognized in laser-line mode. If unchecked, markers will not be recognized during scanning.

(5) Remove outliers: This is a user-selectable option. When enabled, the noise removal function is activated in laser-point scanning mode, allowing for real-time removal of some noise points.

(6) Intelligent Marker: The smart intelligent Marker can display the Confidence level of the markers real time.

(7) Intelligent resolution: You can check it yourself. After checking it, the resolution of holes, edges, corners, and details can be automatically adjusted in the cloud point scanning mode.

(8) Type of workpiece: This can be selected based on the workpiece material. The default is usually "General."

(9) Marker Extension: This is the distance extending outward from the reflective area of the marker point.

(10) Marker Diameter: This is the diameter of the reflective area within the marker point.

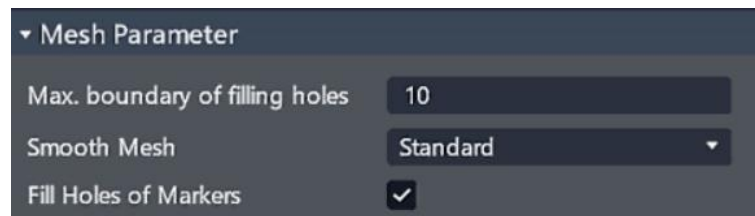
(11) Scale Selection: If the photogrammetry system is purchased, a scale bar can be selected by name.

(12) Laser Mode: The laser mode is currently divided into Single-line Mode, Seven-line Mode, and Cross-line Mode, and can be switched in real-time during scanning.

Note: Among the scanning parameters, only "Shutter" and "Laser Mode" can be changed during scanning. "Add Marker" can be changed when scanning is paused. All other parameters must be set either before scanning begins or after it has ended.

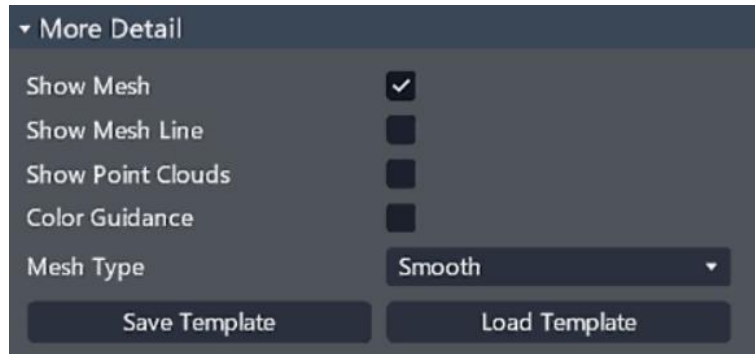
4.4.6. Meshing Parameters Column

Mesh parameters are parameters that need to be adjusted before meshing, including hole-filling boundary, smoothing level, and marker hole filling.



4.4.7. More details column

Additional details include “show mesh”, “show mesh line”, “show point clouds”, “color guidance”, and “mesh type”. (Color guidance: optional; when selected, the color guidance function is activated in point cloud scanning mode—scanned areas of the workpiece appear in blue, while areas that still require scanning appear in yellow.)



Note: Saving a template will store the current scanning parameters, meshing parameters, and the parameters of **Color Guidance** as a template.

4.4.8. Scanning display area

Scan Display Area Button Description.

Scan Display Area Button	icon	Functional Description
choose		Includes lasso selection, polygon selection and rectangle selection. Lasso selection is selected by default.
Connection Item		After selecting the connection item button, you can click to select a whole connected to it (including the marked point)
Invert		Cancel the currently selected area and select the remaining data (used with "Select Marker" and "Select Mesh")
Through		Click the Through mode to select the back and below parts of the area (used with "Select Marker" and "Select Mesh")
Marker		Click the Select Marker.
Mesh		Click the Select Mesh and Cloud point.
Select All		Click the Select All button to select all data in one project.

Unselect All		Click the Unselect All button to cancel all currently selected data.
Delete		Click the Delete button to delete the currently selected data.
Best View		Click the Best View button to switch to the best view
Max		Clicking the Max button will hide the toolbar, navigation bar, etc. Please press the ESC key to exit to maximize windows.

4.5. Common mouse operation commands

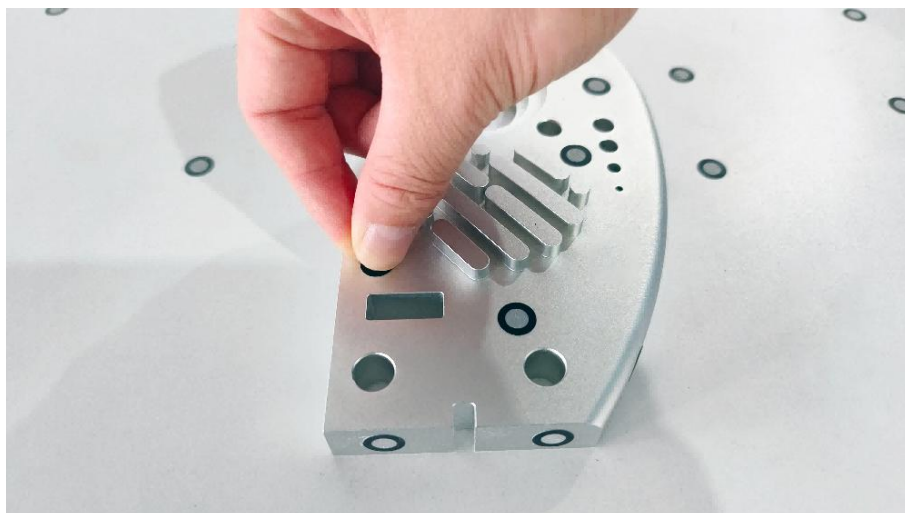
Default scan shortcuts for displayed areas.

Instructions	Quick Operations
Selected object	Left click
Set Center	Middle click
Stereo Rotation	Middle Drag
Zoom	Scroll wheel
Translate	Right Drag
Quick Cutting	Delete
Zoom	Mouse wheel
Start/Pause Scan	Keyboard Space key
Withdraw	Keyboard Ctrl + Z

5. Workflow

5.1 Scanning Operation

5.1.1. Arrange Marker



5.1.2. Connecting devices

- The integrated power port (left) is connected to the scanner power port
- Integrated cable TYPE B connected to the scanner data interface



- The integrated power cord part is connected to the power adapter cord

- Plug the power adapter cord into an outlet

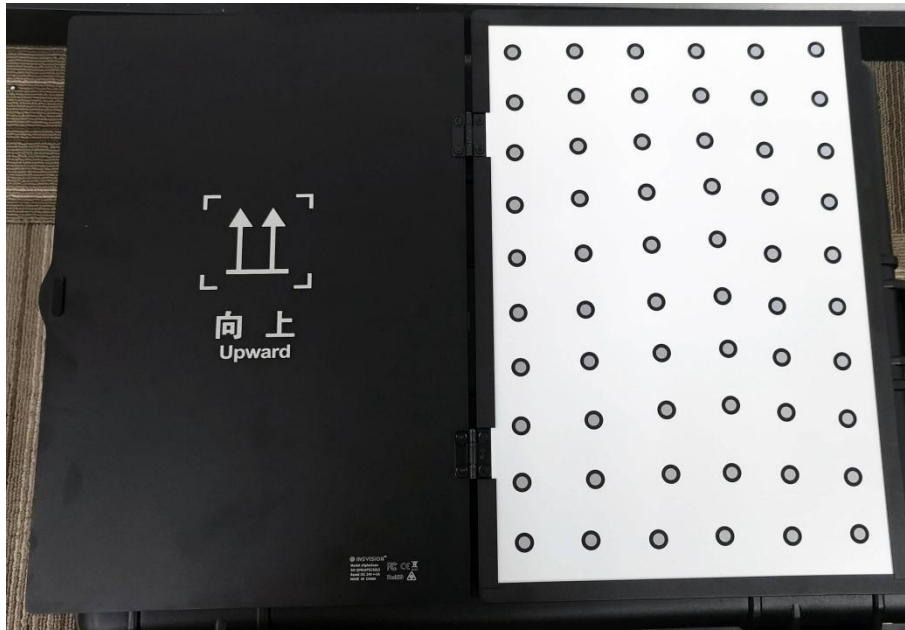


- Integrated cable TYPE A connected to computer

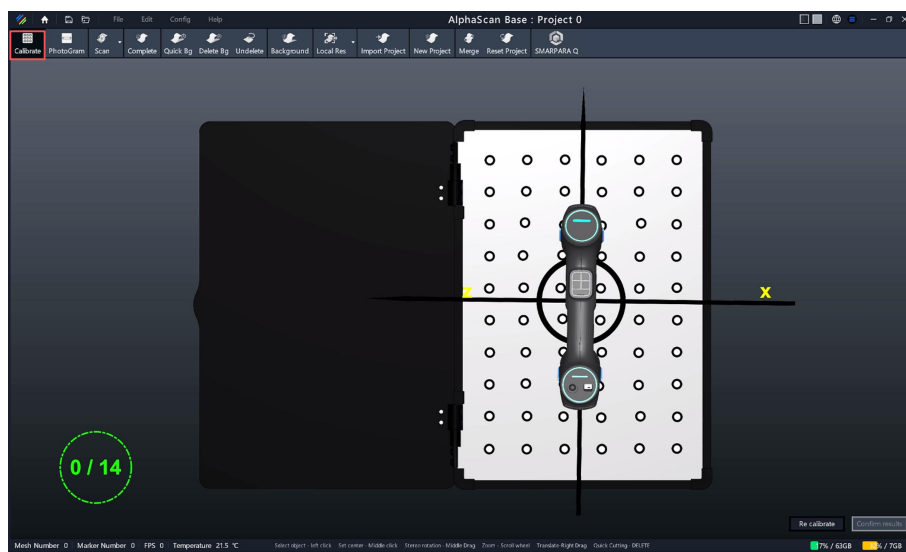


5.1.3. Calibration

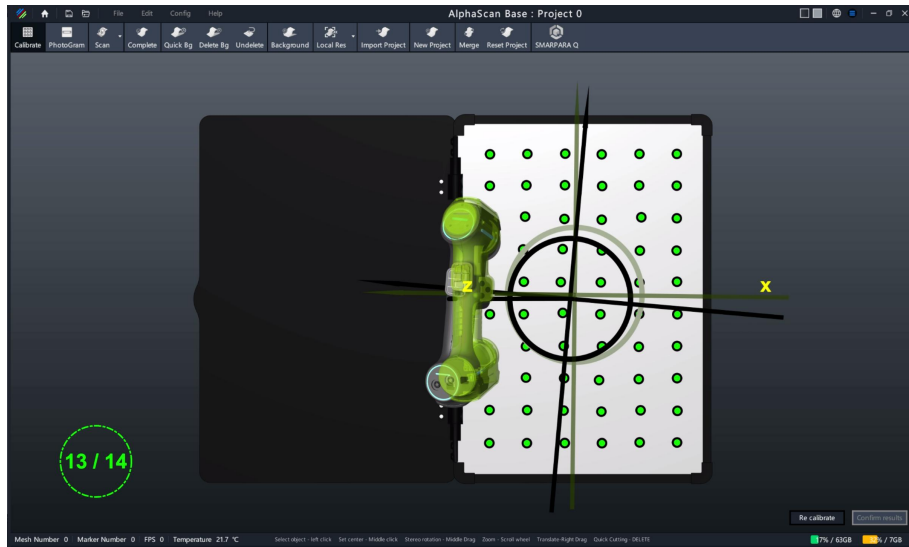
(1) It is recommended to perform a quick calibration before starting the scanning operation. When operating, please take out the calibration plate first and ensure that the calibration plate is placed in the positive direction (open the upper cover to the left)



(2) Click the Calibrate button in  the scanning software 3D INSVISION , and the scanner and calibration plate images will appear on the display interface.

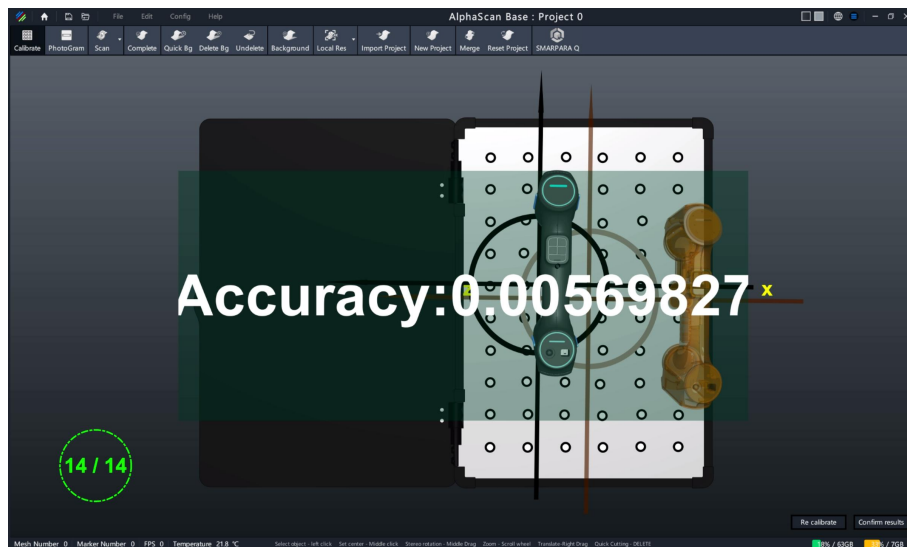


(3) Place the calibration plate on a horizontal and stable surface, point the scanner at the calibration plate, press the button on the scanner, and after the laser is fully projected onto the calibration plate, follow the prompts to calibrate.



(4) After the calibration is completed, the interface will display the current calibration accuracy, indicating that the calibration is complete. If it is prompted that the current accuracy is too low, please re-calibrate.

(5) Click the “confirm result” to save the current calibration data and exit calibration.



▲ Make sure the calibration plate is placed in the positive direction and the scanner is facing the calibration plate.

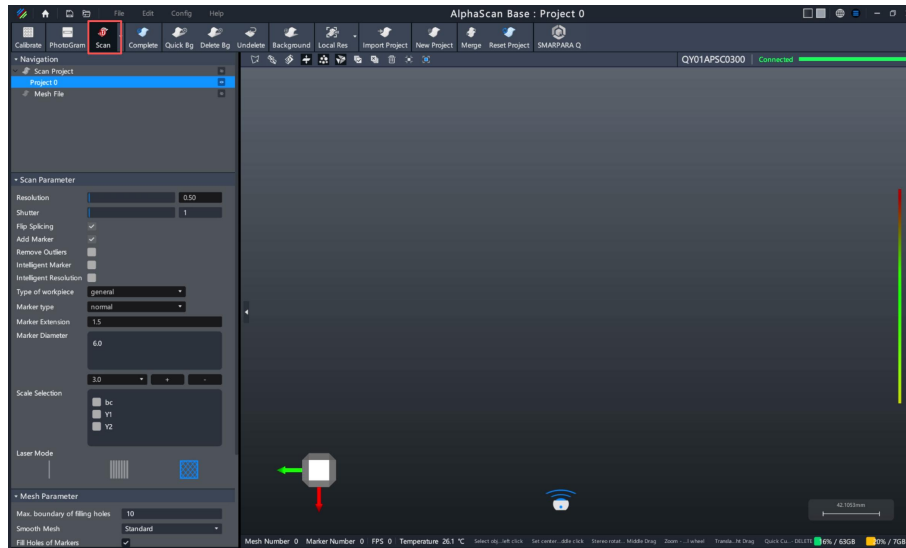
▲ No other marking points should exist around the calibration plate

5.1.4. Marker point scanning

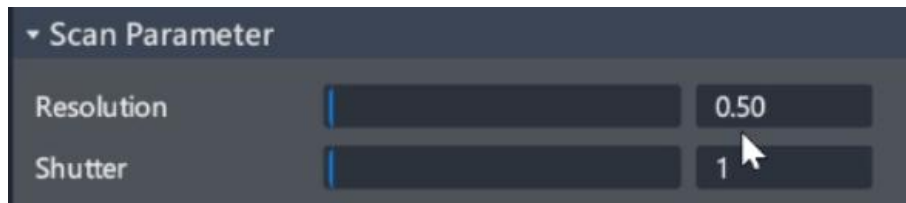
Before scanning begins, the marked points on the workpiece surface need to be scanned to determine the

relative coordinates and position of the workpiece.

(1) After the connection is normal, you can start scanning the marker points. Click the "Scan" button in the menu bar to start scanning the marker points (the default initialization is marker point scanning).



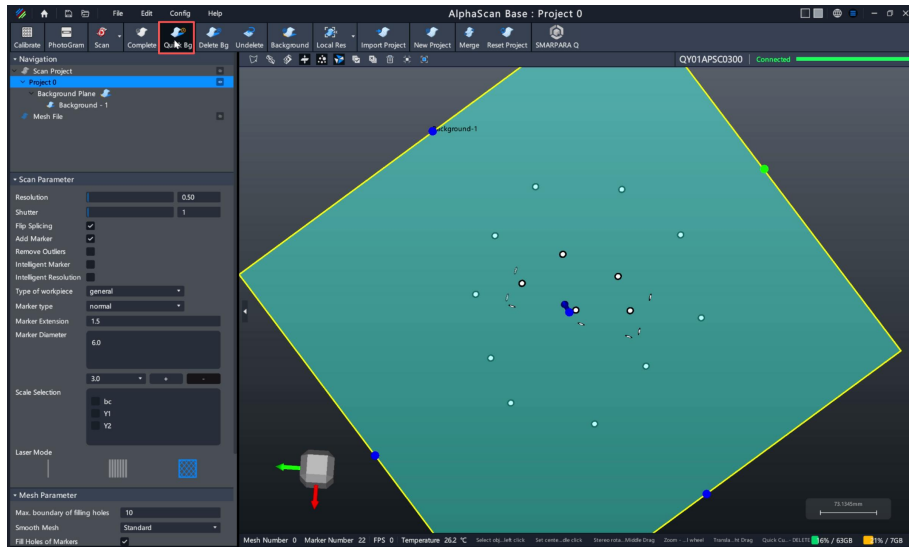
(2) Different shutter can be selected for scanning depending on the workpiece, and can be modified in real time in the "Shutter" of the scanning parameter bar.



(3) After the marker point scan is completed, you can choose to continue scanning or export the marker points. If you want to export the marker points, first click "Finish Scan", then click "File" in the menu bar, and select Export Marker Points in the drop-down box.

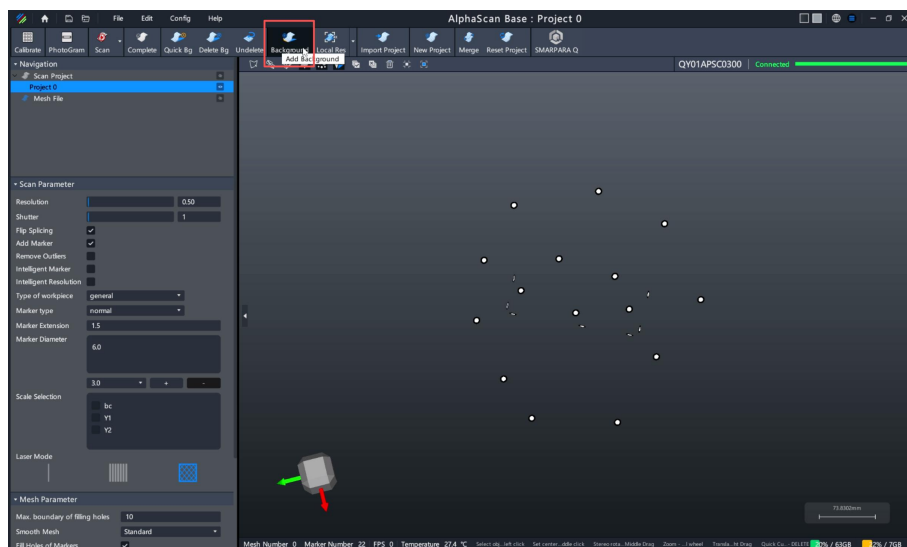
5.1.5. Quick Background

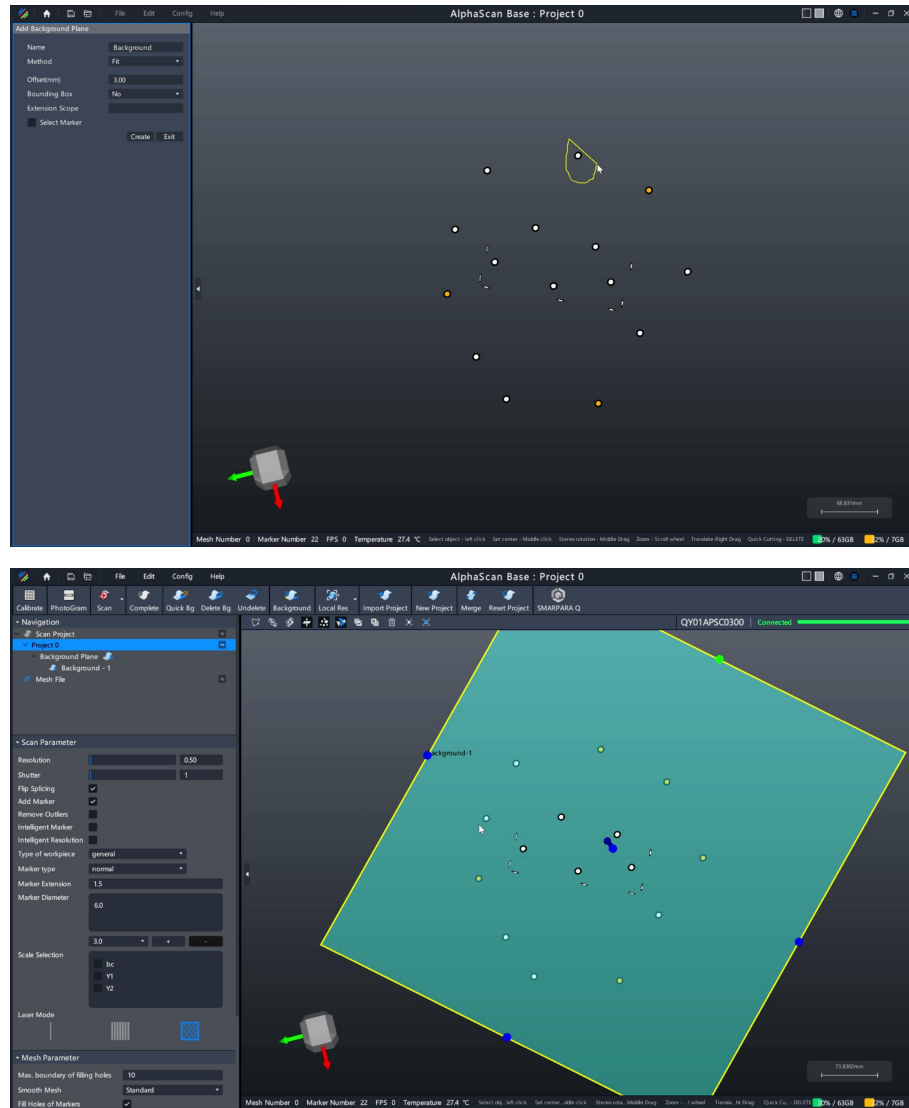
Before scanning, you can choose to create a background plane to isolate the part from the work surface. After creating the background plane, the laser point data which is below the background plane will not be scanned during laser point scanning. After scanning the mark point, you can pause the scanning operation as shown in the figure and click Quick Background. The software automatically creates a background plane.



5.1.6. Manually add background planes

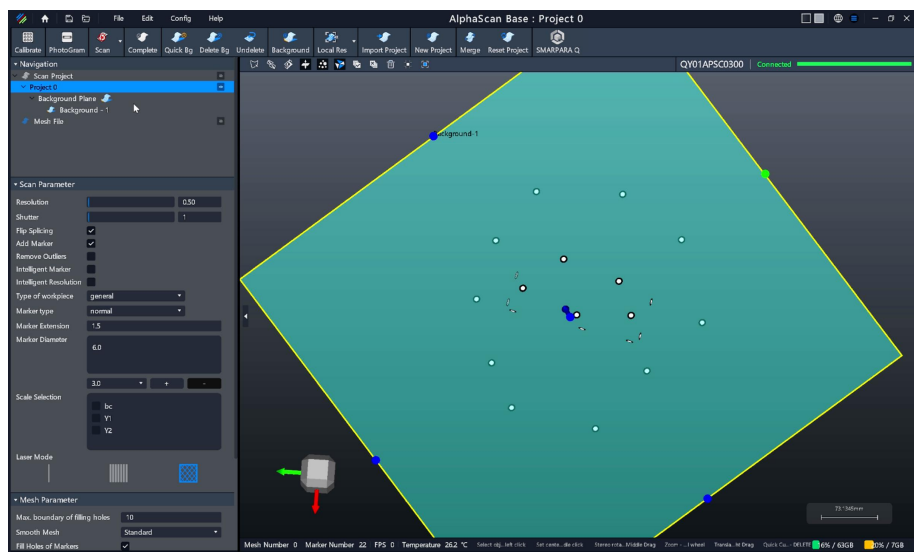
You can also manually "Add Clipping Plane." After scanning the markers, click the "Add Clipping Plane" button, select at least four marker points in different directions on the desired clipping plane (background plane), choose the creation mode as "Fitting," and then click "Create."



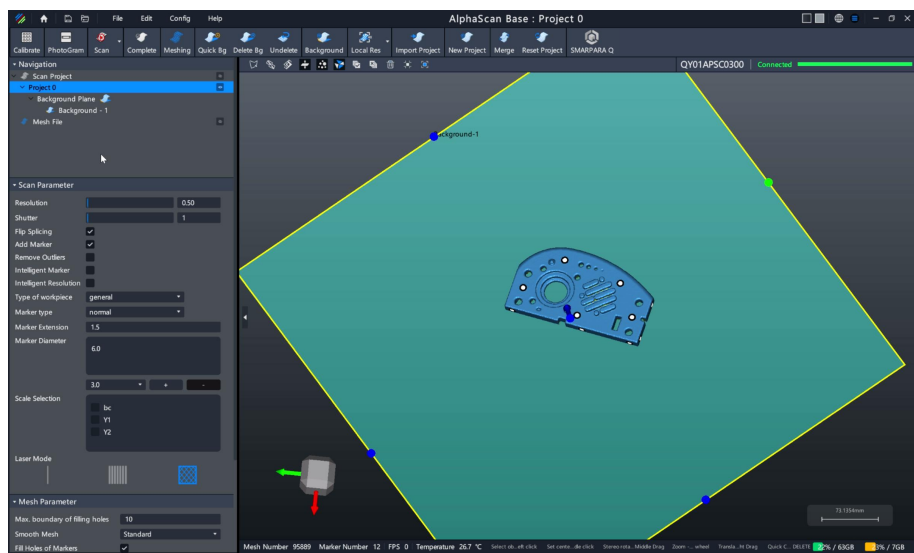


5.1.7. Automatic flip and splicing function

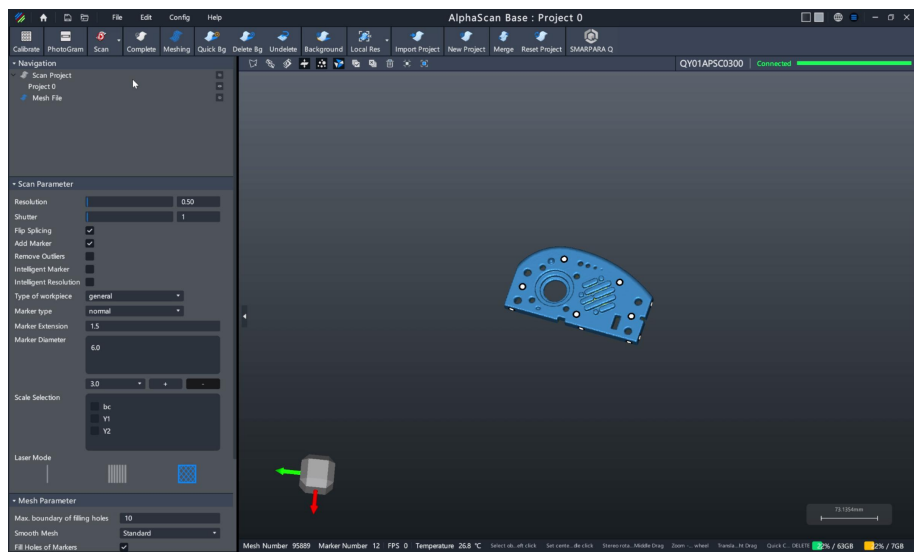
(1) First, scan the marker points of front and side, then set the background plane according to the actual situation.



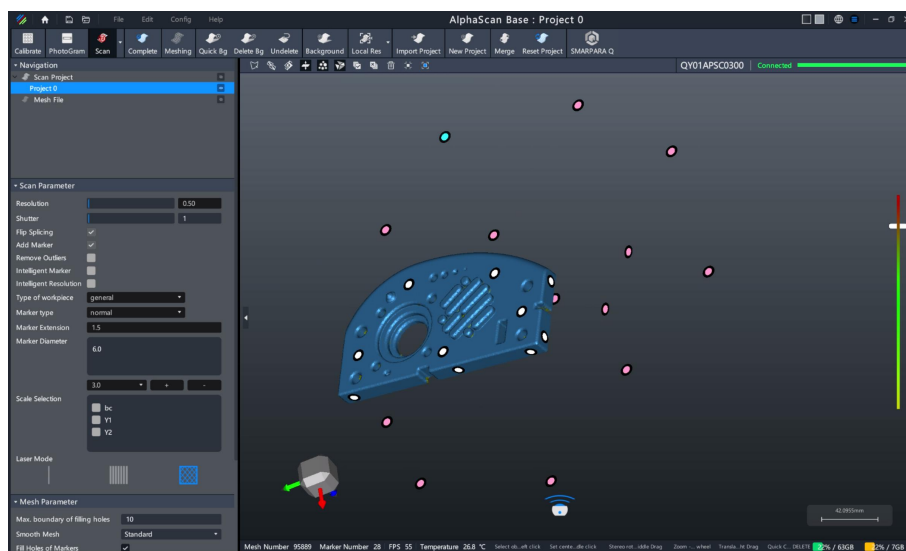
(2) Scan the laser points of front and side.



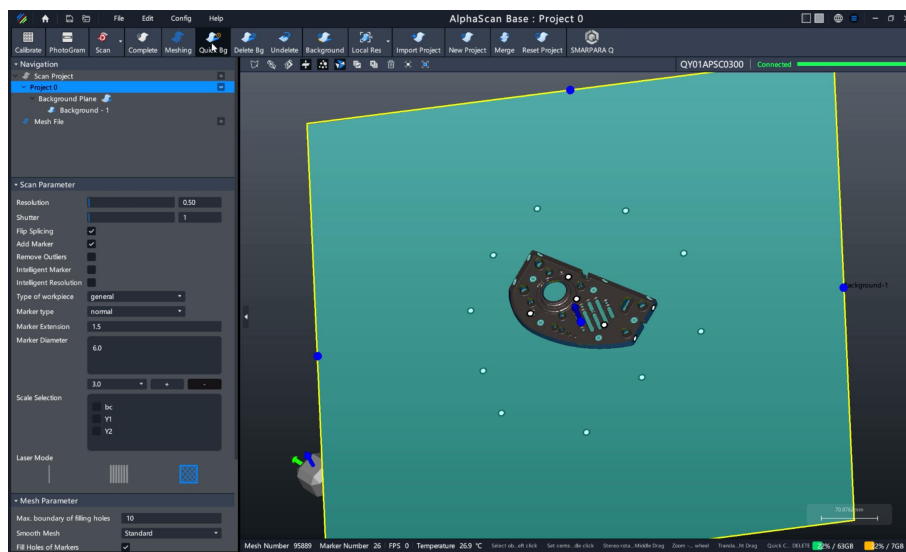
(3) Delete all marker points outside the workpiece.



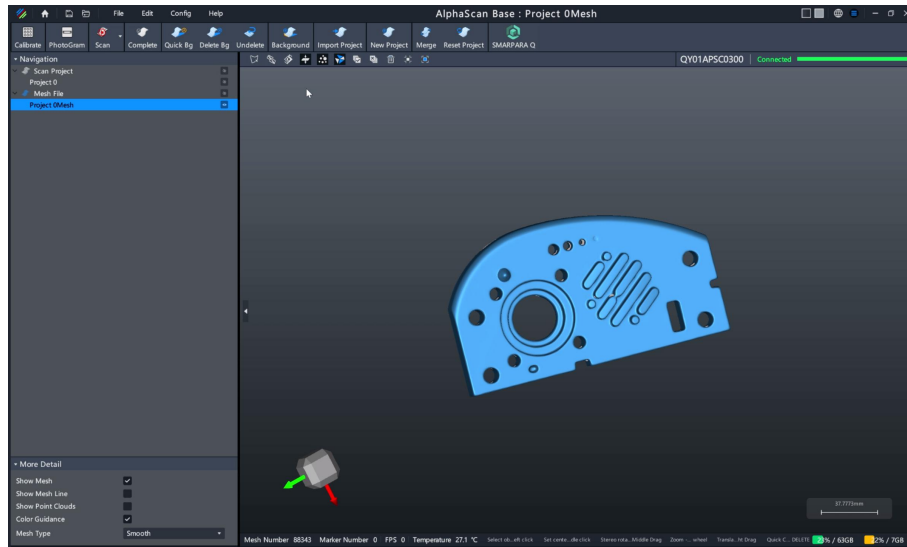
(4) Turn the workpiece over and scan the marking points, which will enable automatic splicing.



(5) Set the background plane (Note: do not delete the laser point and marker point under the background plane).

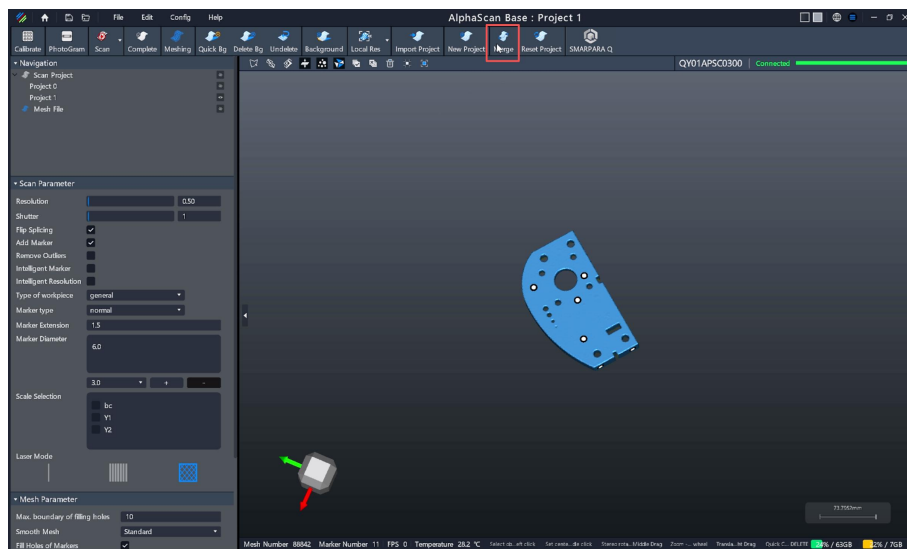


(6) Continue scanning the laser line to complete the scanning of the back and side of the workpiece.

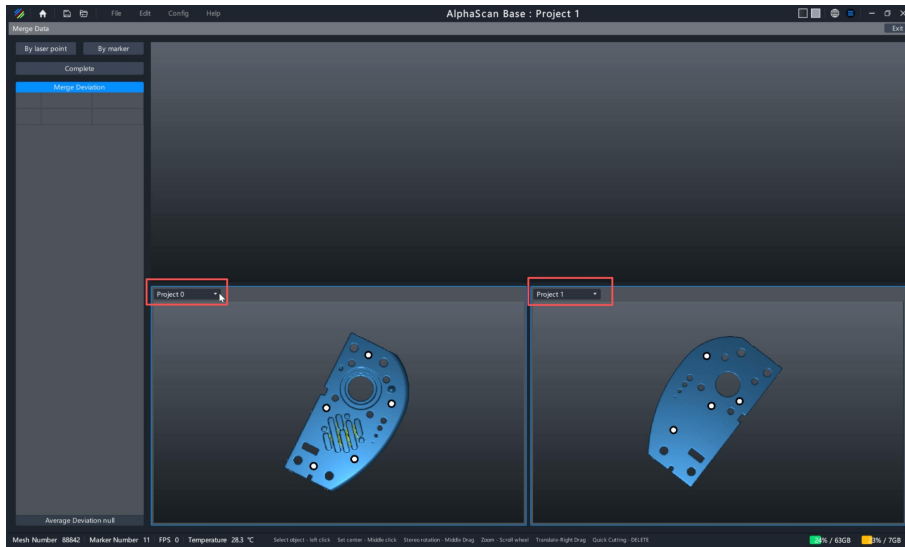


5.1.8 Manual merge function

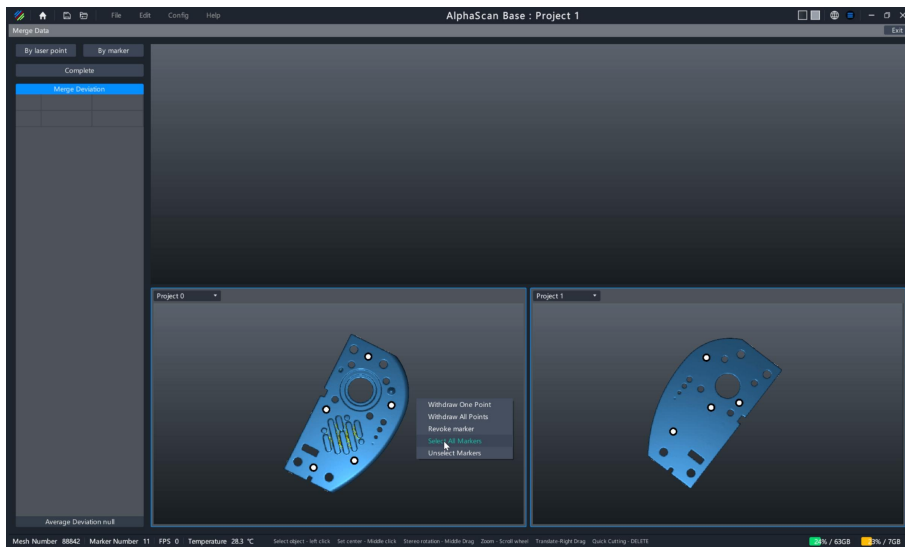
- (1) Scan the front and back of the same project as two projects. After scanning, click the "merge" button.



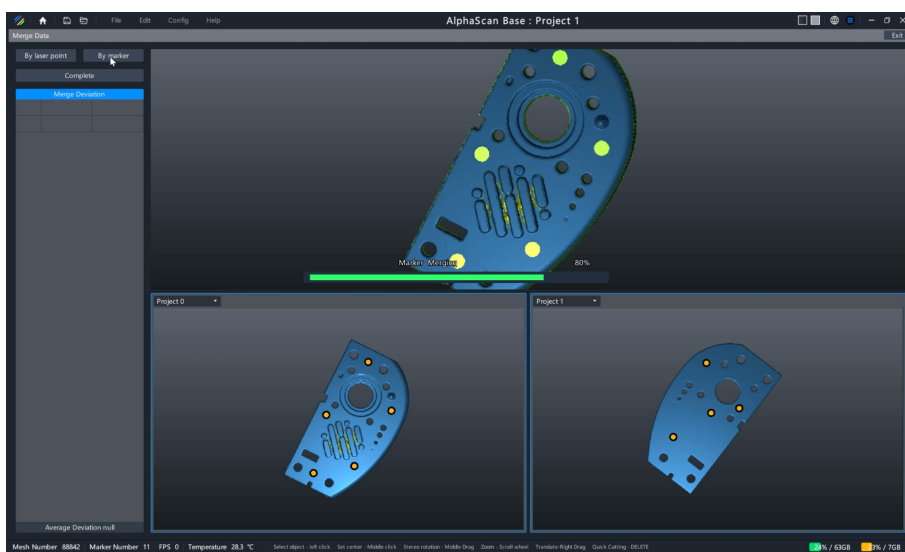
- (2) The software will automatically select the first two projects by default.



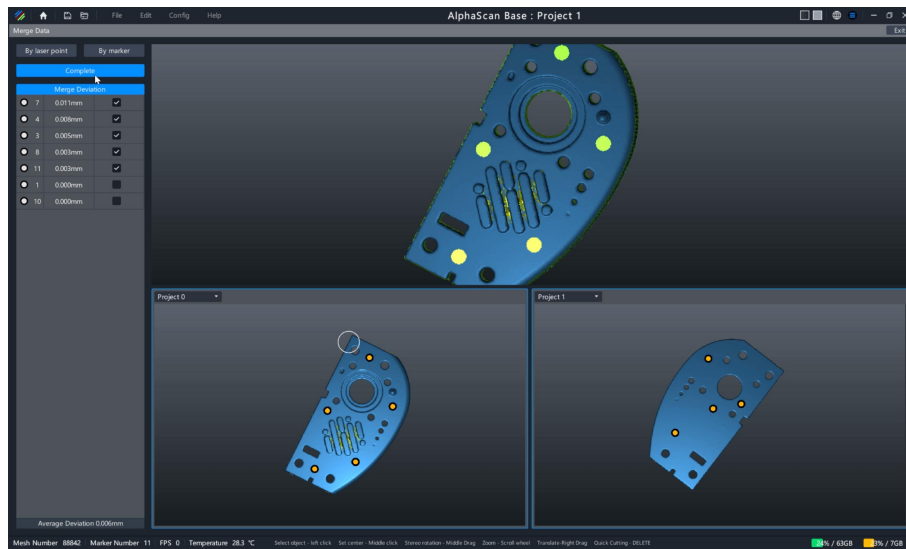
(3) Under each project, right-click to select "Select All Markers".



(4) Click the "By marker" button and remove the marker points that have large display errors.



(5) After clicking the "**Complete**" button, the merging process will be completed. The merged file will overwrite the originally selected project file on the left side, which is Project 0 in this case.



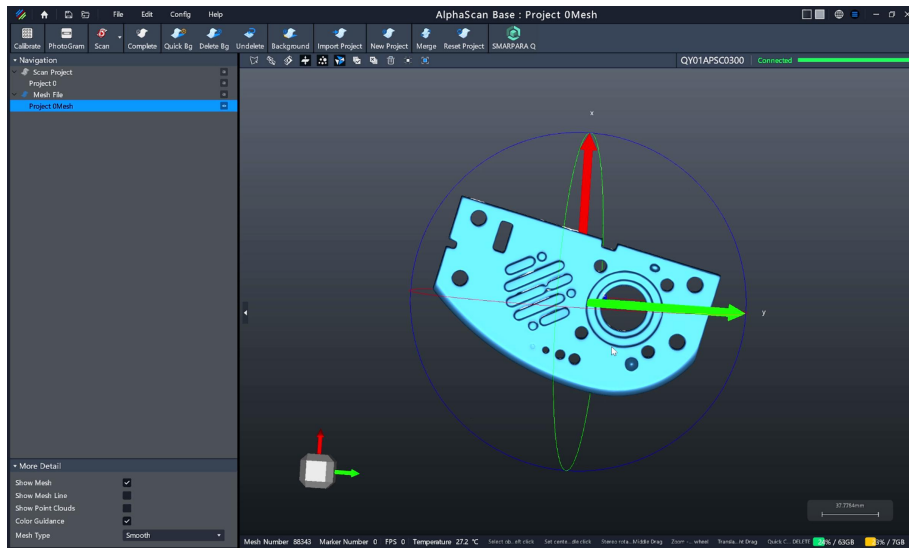
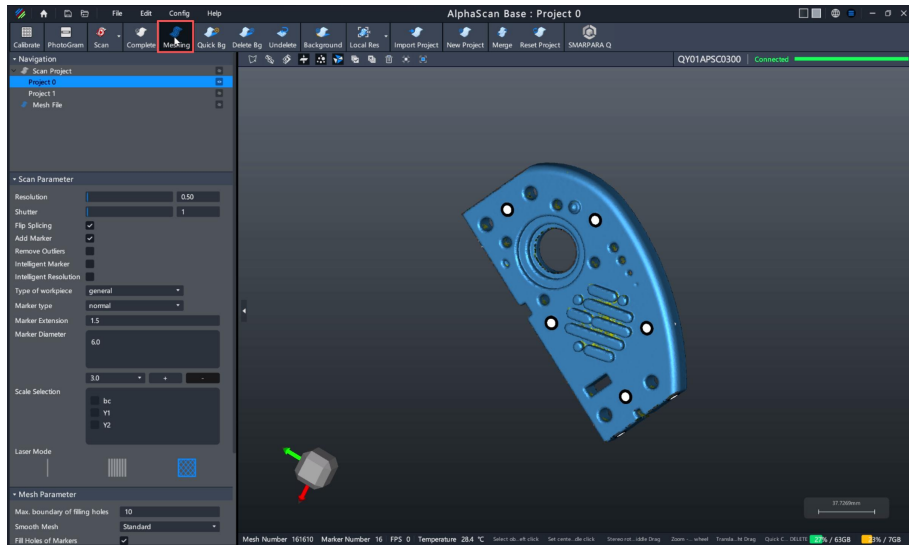
(6) After completing, you can exit and continue scanning.

5.1.9 Point cloud scanning and processing

After the scan is completed, you can click "**complete**" to complete the scan and process the point cloud data. Select the point cloud data that we want to save, then click the inverse selection, and the unnecessary point cloud data will be selected. Click Delete to delete the unnecessary point cloud data. After the data processing is completed, the mesh parameters can be set through the mesh parameter bar on the left. After the setting is completed, click "**Mesh**" to transfer the point cloud to mesh.

5.2.0 Mesh Optimization

Click "**Mesh**" to automatically complete the packaging process.



5.2.1 Saving Data

After completing the meshing, select the corresponding mesh data and click the file in the upper left corner to export the mesh data.

6. General Troubleshooting

6.1 Unable to open software

Check whether the software is installed correctly

Check the software operating environment configuration

6.2 The message "No dongle found" appears

Check whether the key is inserted correctly

Check if the key is damaged

6.3 Device connection failed

Check whether the power supply is connected normally

Check if the USB connection is normal

Check whether the configuration file is correct

6.4 The device cannot be calibrated.

Check whether the configuration file is correct

Check whether the calibration plate is damaged

6.5 The device freezes during operation

Check whether the marker has moved

Check if the computer power supply is loose or disconnected

Check if the USB connection is normal

7. Contact Us

For AlphaScan other usage questions, please contact us

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