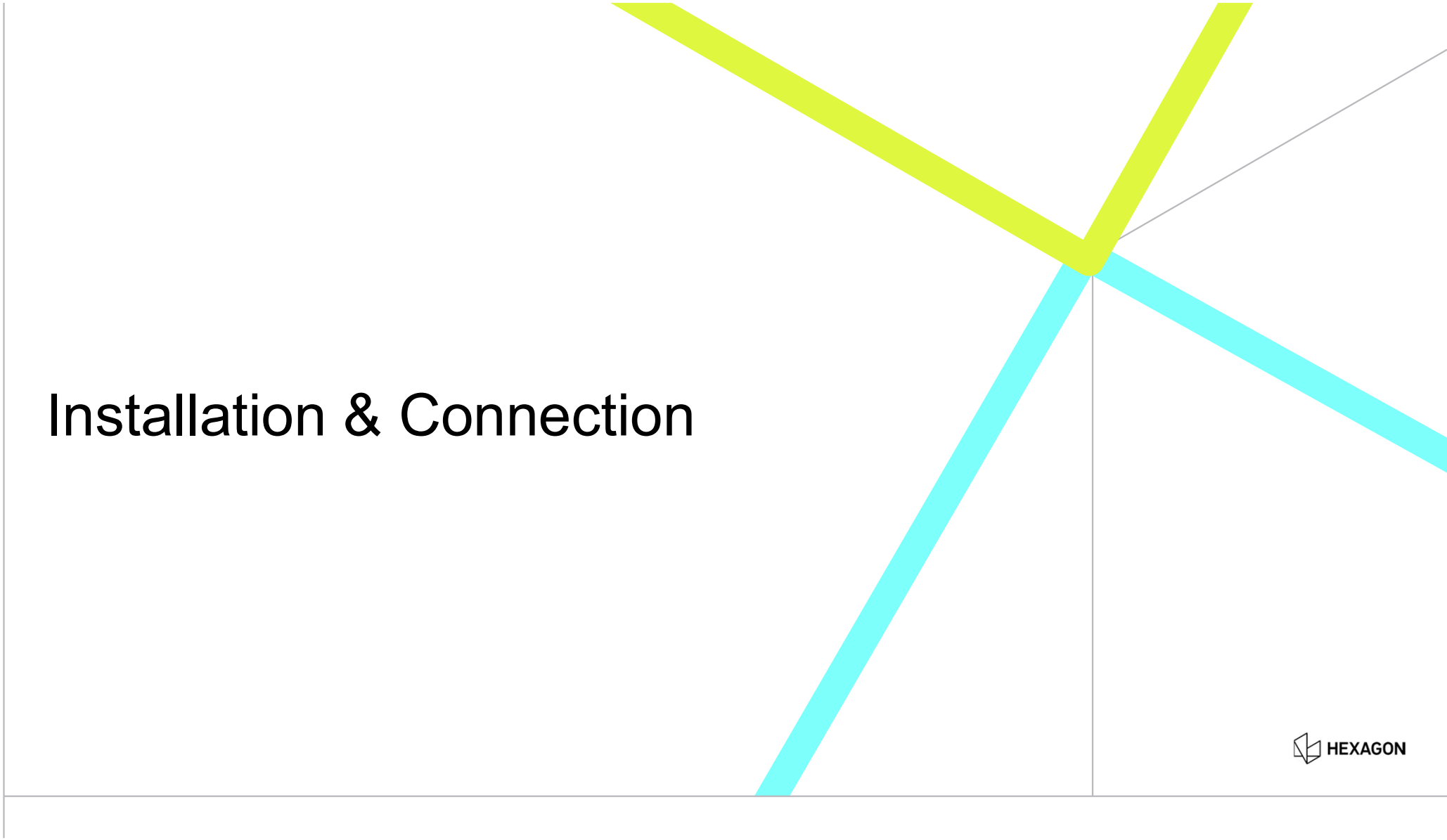
HEXAGON

Tutorial on using **HYPER***PROBE* in Control X

April 28th, 2026

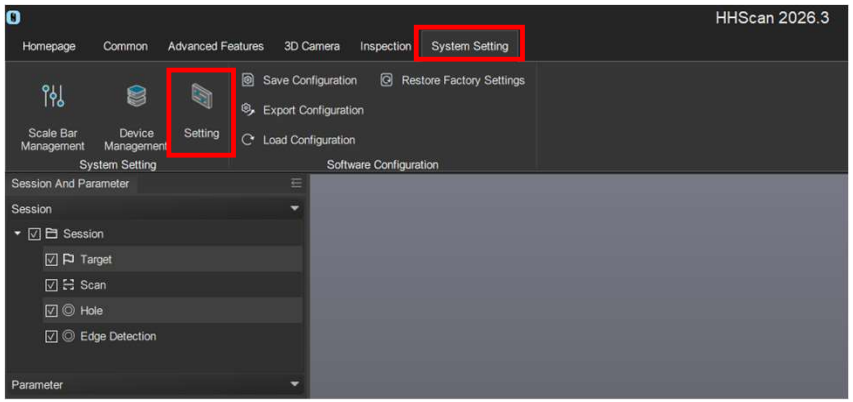
Installation & Connection

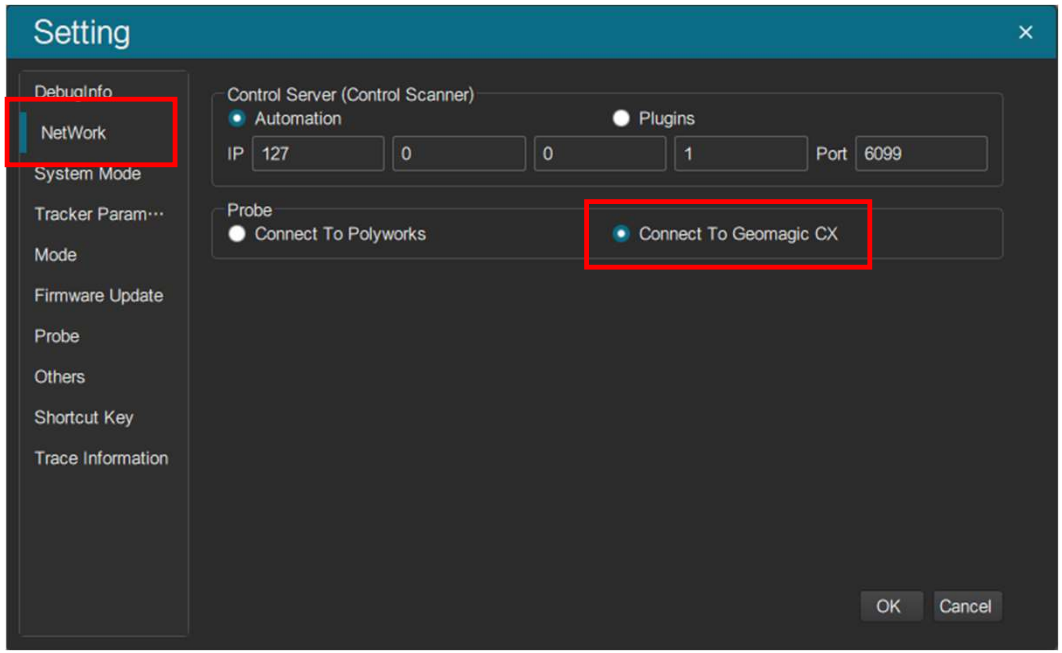


Installation & Connection

Connection

- Open HHSCAN 2026.3 or above version, go to Settings > Network, and set the Probe to “Connect To Geomagic CX”. Click OK.





Remark: You would need HH Scan 2026.3 version to compatible with the HYPERPROBE with Control X, you can download HH Scan 2026.3 at [Portable MI download portal]

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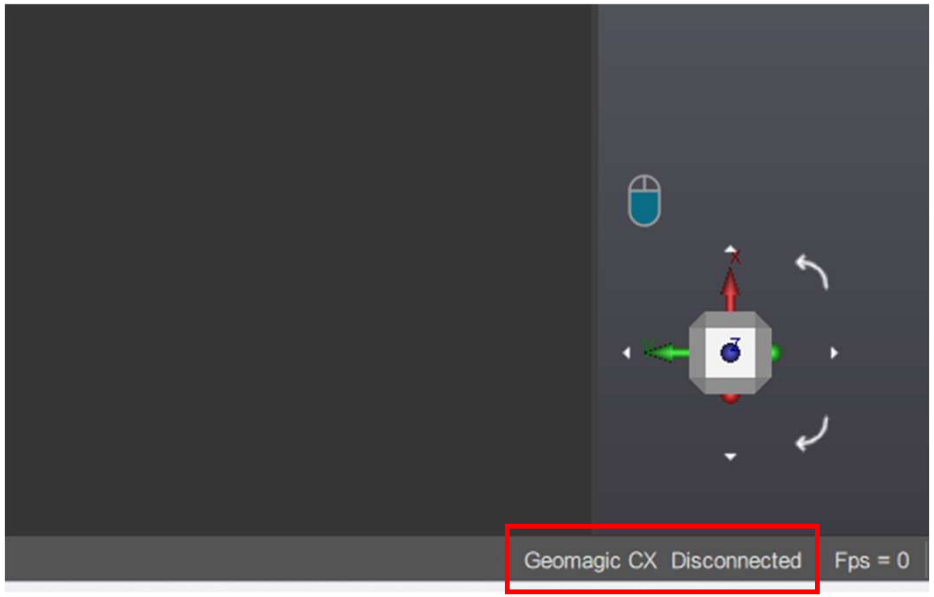
Installation & Connections

Connection

- Restart HHSCAN, and you will see the connection status displayed in the lower-left corner of the software. Since it is not currently connected to Geomagic CX, the lower-left corner displays “Geomagic CX Disconnected”.



Installation & Connections

Connection

- Connect the companion Bluetooth receiver to your computer.

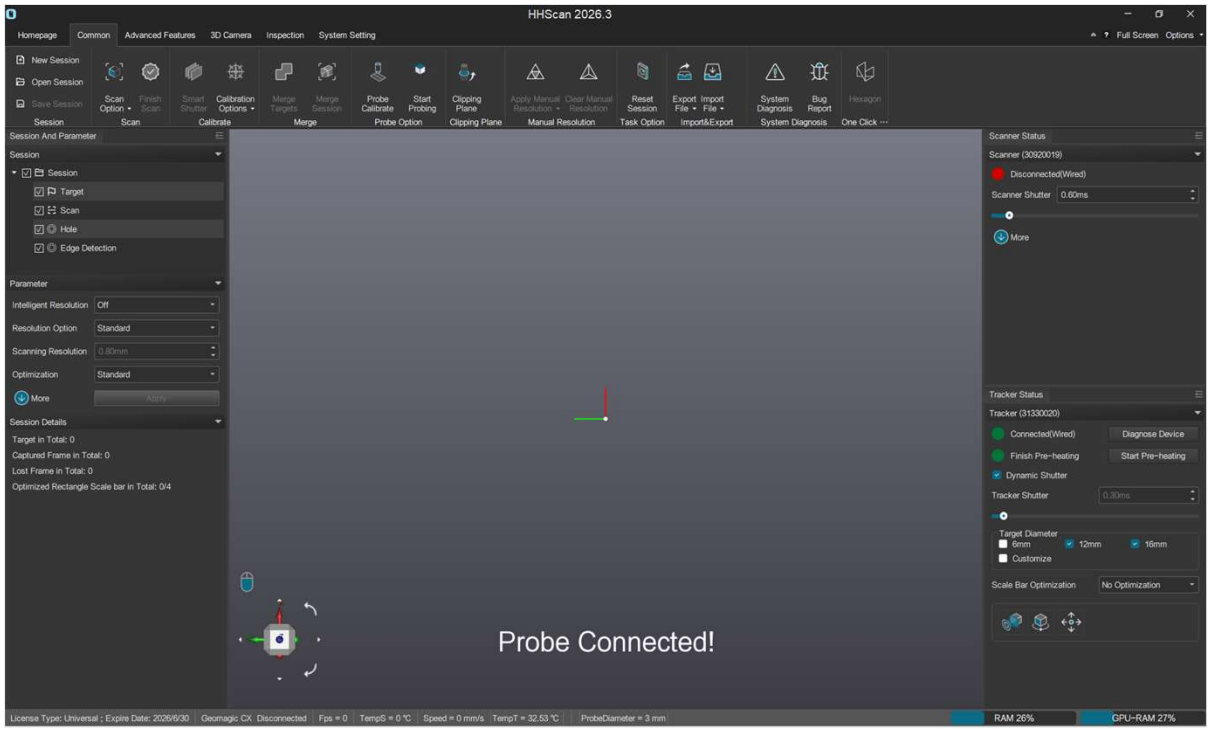
- Finger click on the trigger button energizes the **HYPER***PROBE*.

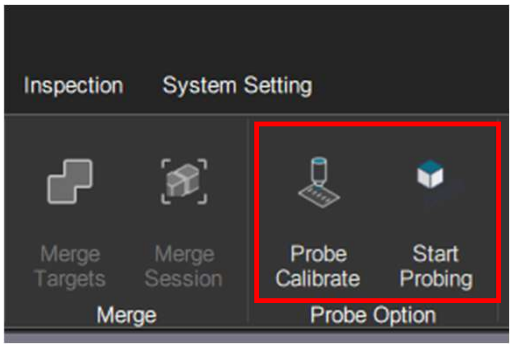
- Press and hold the Dot key for 3 seconds to connect the **HYPER***PROBE* to the HHSCAN.

Installation & Connections

Connection

- You can see that **HYPER***PROBE* successfully connects to HHSCAN and Probe's icon lights up.





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Probe calibration

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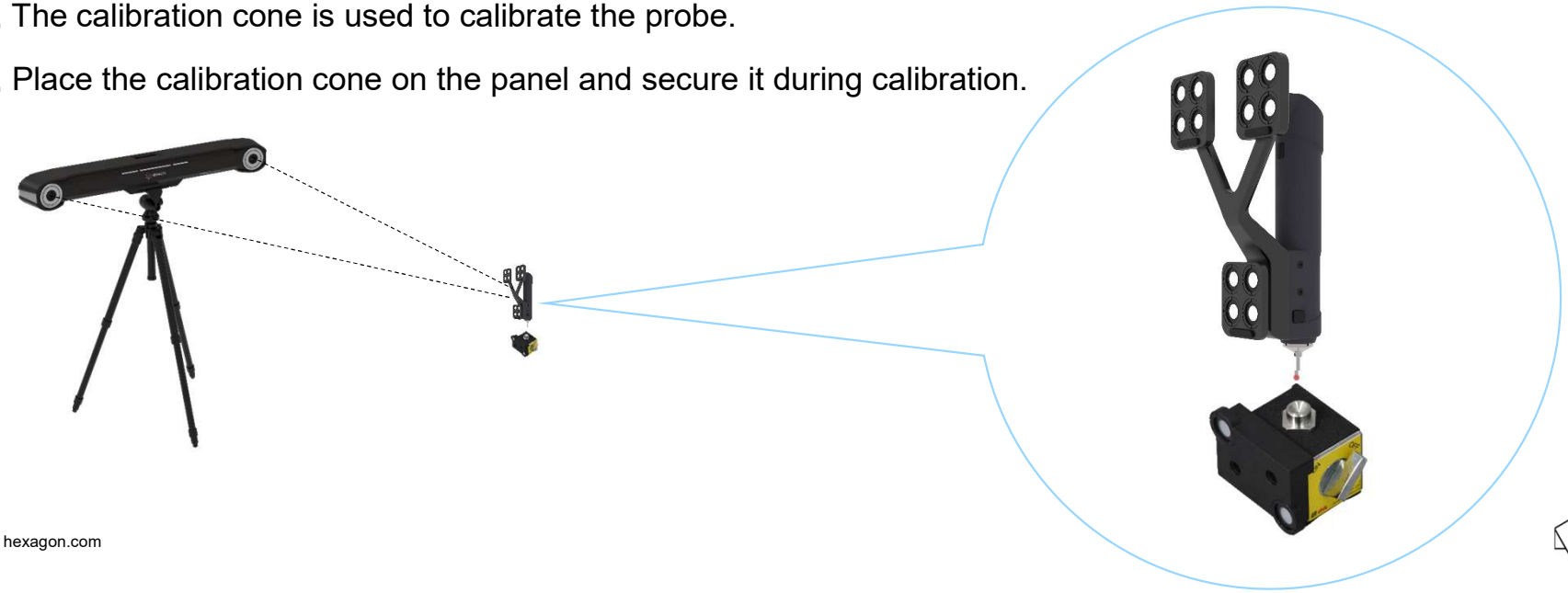
Calibration

Probe Calibration

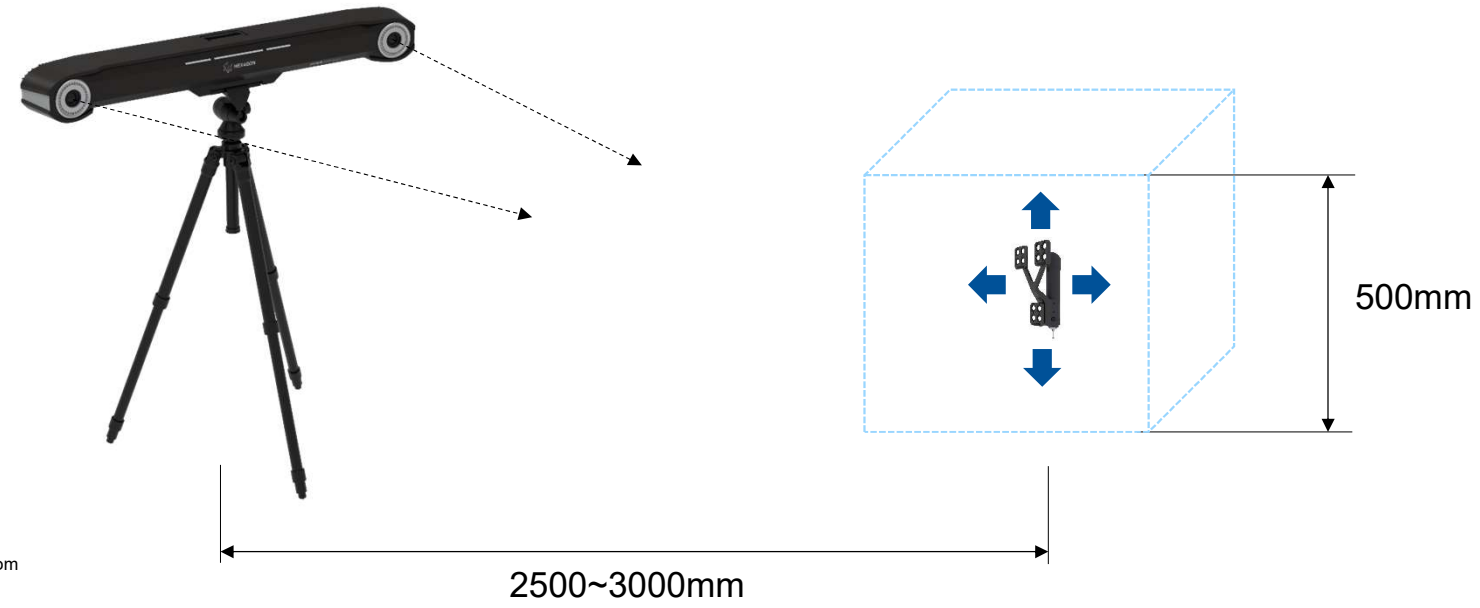
- Tips for probe calibration
- #1, The probe must be calibrated every time it is mounted.
- #2, Before calibrating the probe, ensure that the track has been calibrated and is stable.
- #3, The calibration cone is used to calibrate the probe.
- #4, Place the calibration cone on the panel and secure it during calibration.



Calibration

Probe Calibration

- #1, The Probe should be calibrated at a distance of between 2,500 and 3,000 mm from the Track.
- #2, It is better to keep the Probe at the same height as Track's camera during calibration.



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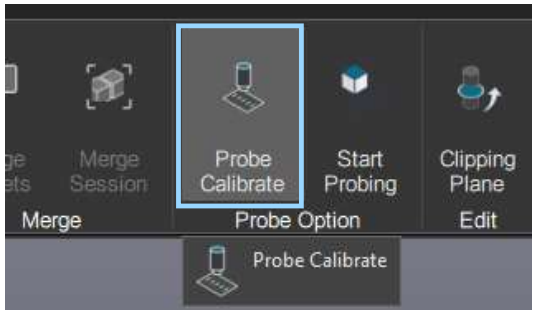
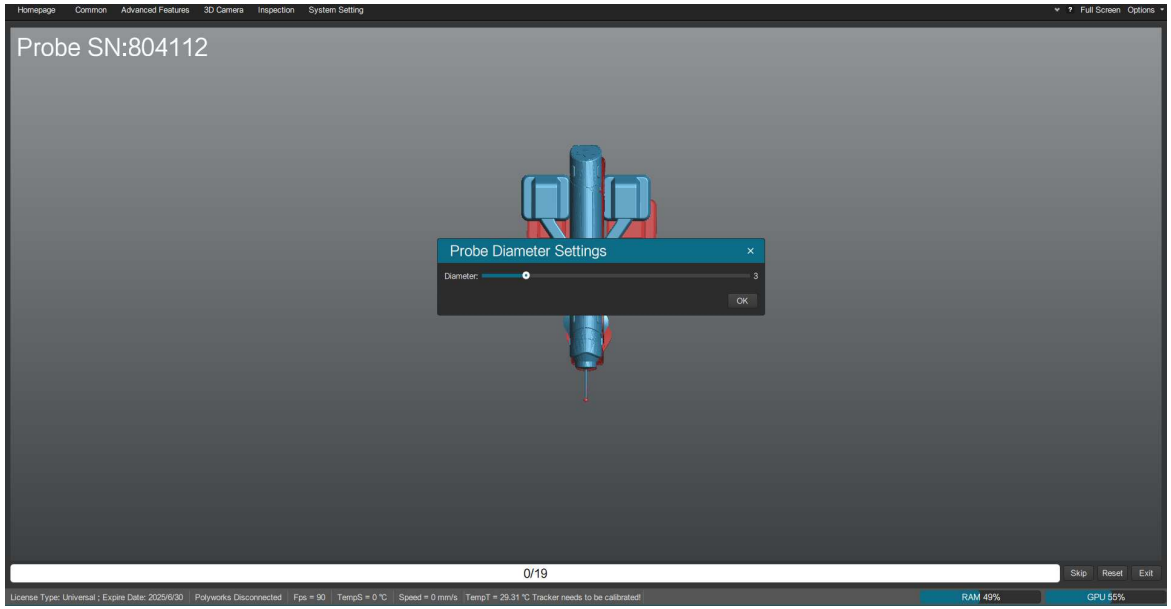
Calibration

Probe Calibration

- **STEP ONE:** Click ***Probe Calibrate*** to enter the calibration interface and input the correct Probe diameter.





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Calibration

Probe Calibration

STEP TWO: Place the Probe on the calibration cone.

STEP THREE: Press probe push button to start calibration
Keep the targets on the Probe face to Track during calibration.

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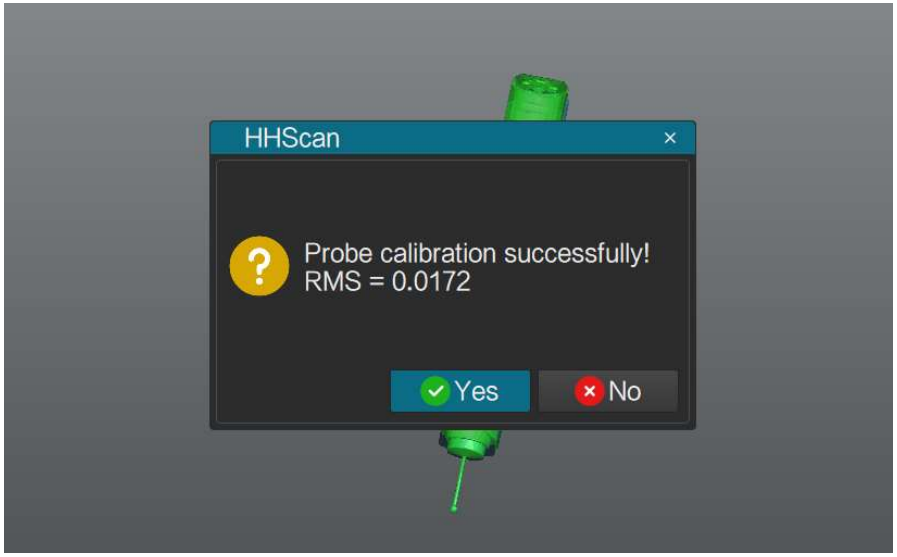
Calibration

Probe Calibration

STEP FOUR: Move the blue model (probe real-time position) to align with the red model (calibration position). Once aligned, it will automatically proceed to the next position. After all positions are completed, the software will calculate the results.



Max. calibration acceptance is **0.03mm**.

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Probe in Control X

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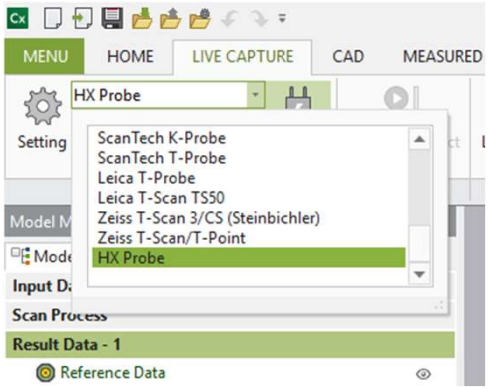
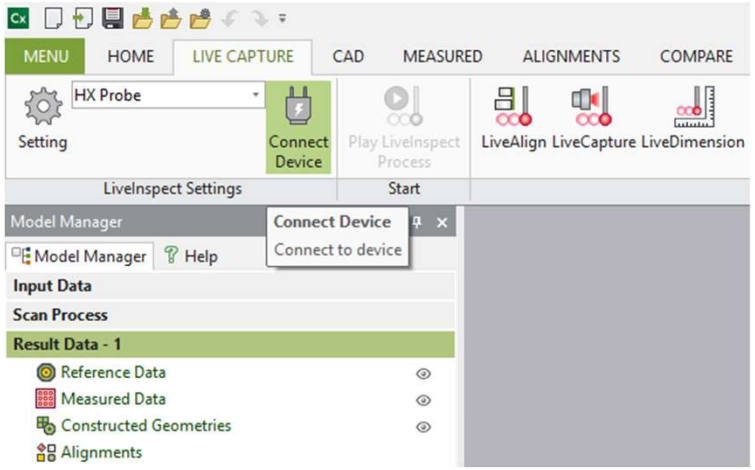
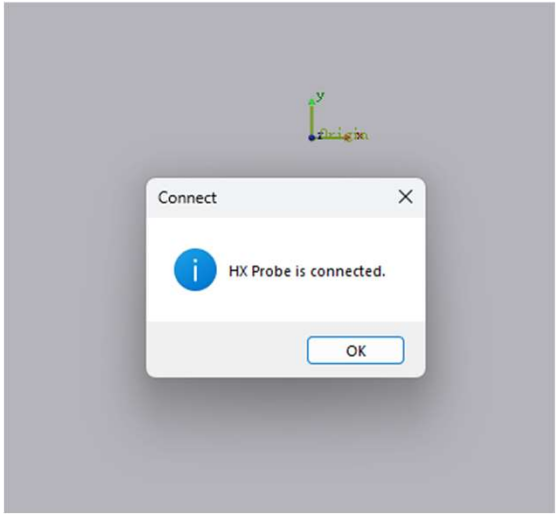
Probe in Control X

Probe

- Open Control X, go to “LIVE CAPTURE” > LiveInspect Settings, and select HX-Probe.
- Click “Connect Device,” and the software will display the connection.







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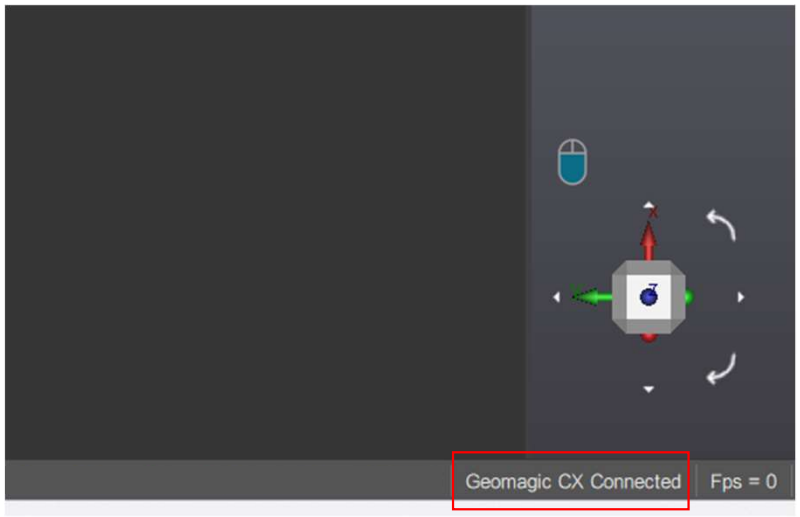
Probe in Control X

Probe

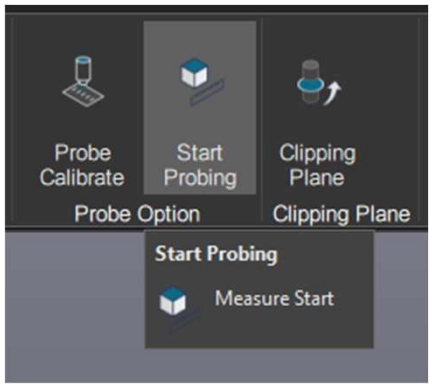
- Switch back to HHSCAN, and you'll see “Geomagic CX Connected” displayed in the lower-left corner.

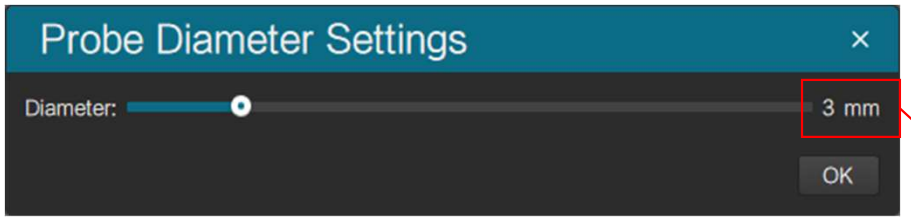


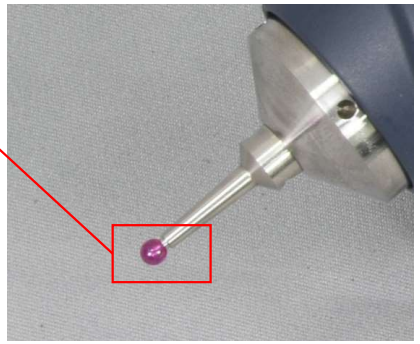
Probe in Control X

Probe

- Click the Start Probing icon, verify that the probe diameter is correct, and then click “OK.”







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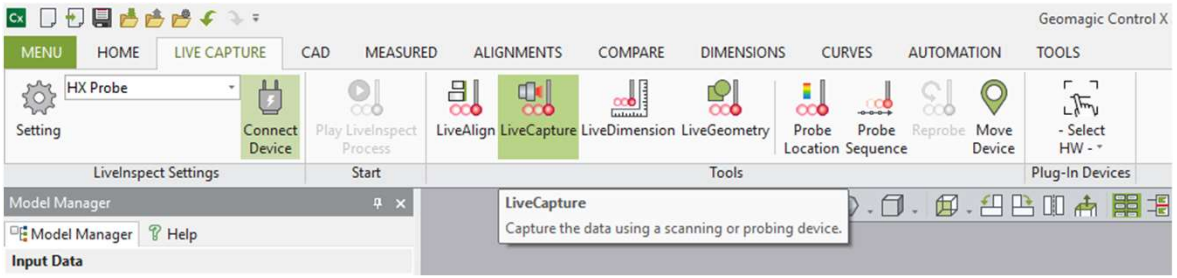
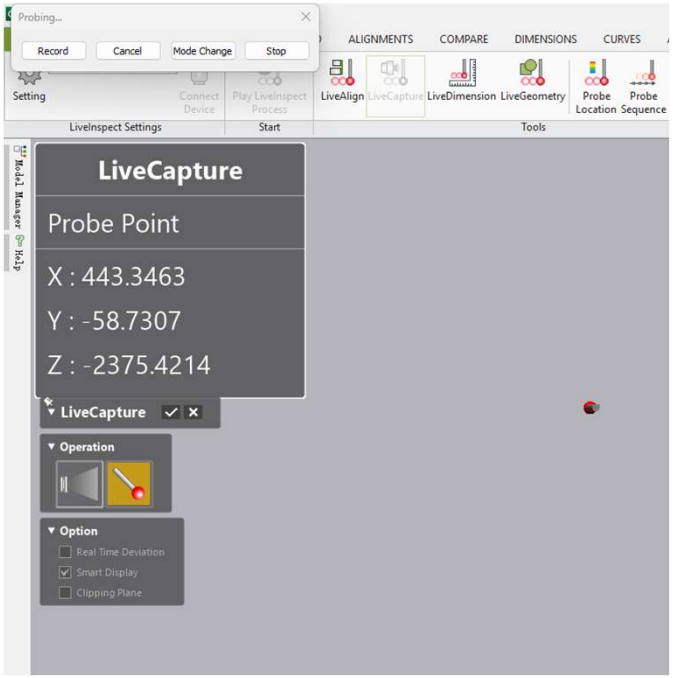
Probe in Control X

Probe

- Click LiveCapture. If the probe's XYZ values change in real time, it indicates that Control X is now able to properly receive the position coordinates transmitted by HHSCAN.





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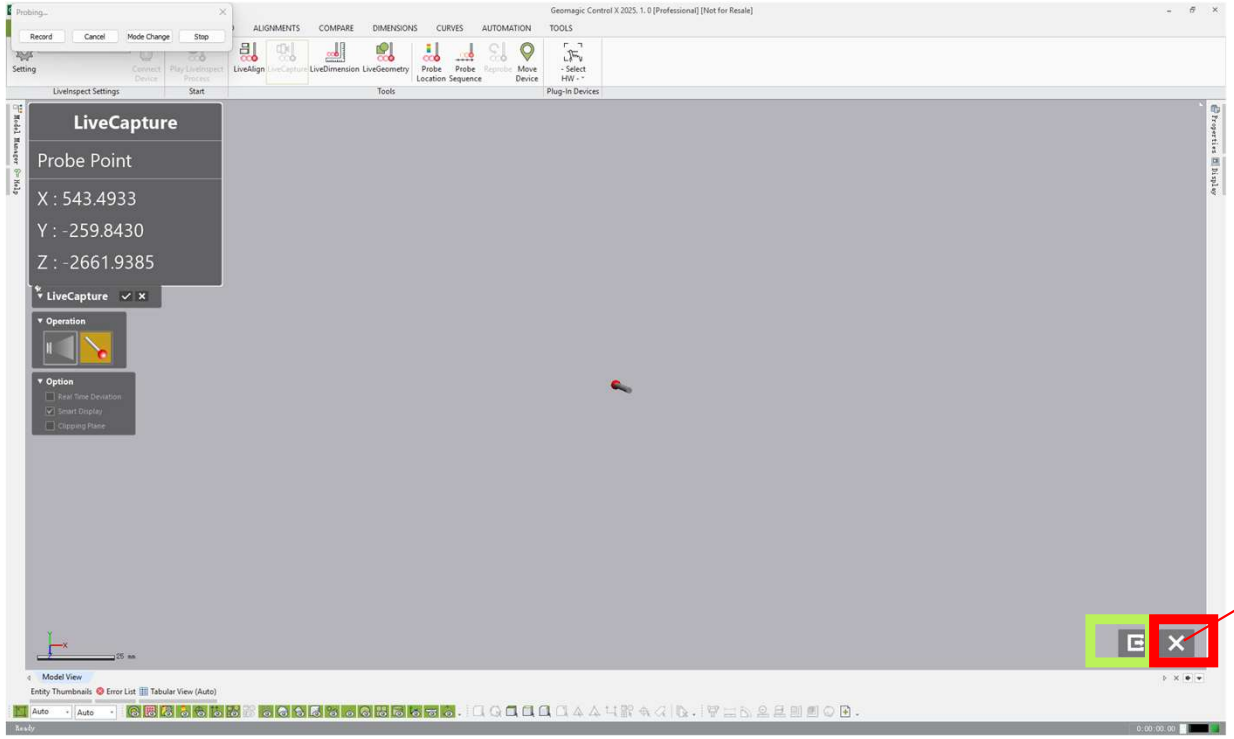
Probe in Control X

Probe

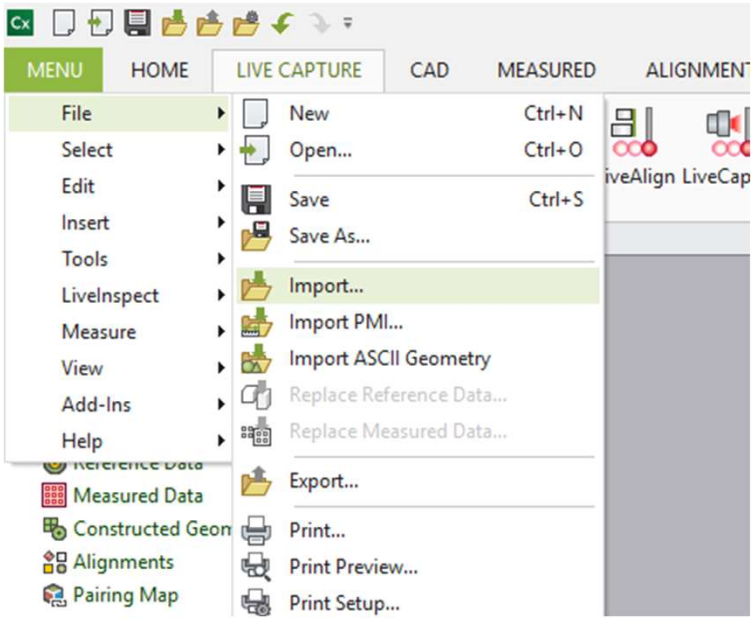
- To exit the LiveCapture interface, simply click “Exit.”
- Do not click the “Close” icon, as this will disconnect HHSCAN and Control X.

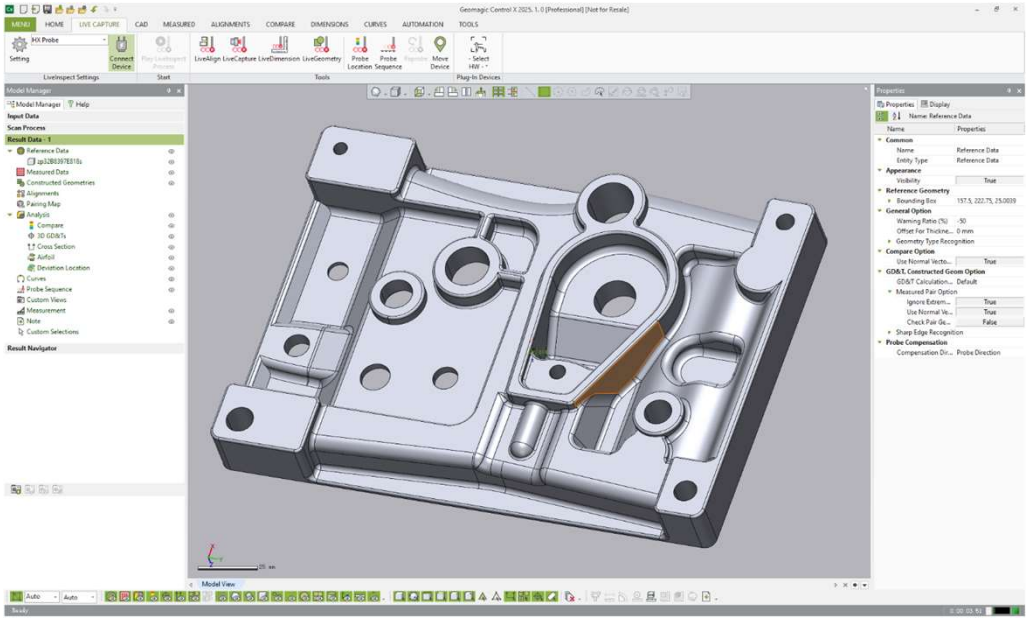


Probe in Control X

Probe

- If you have a CAD file, import it.





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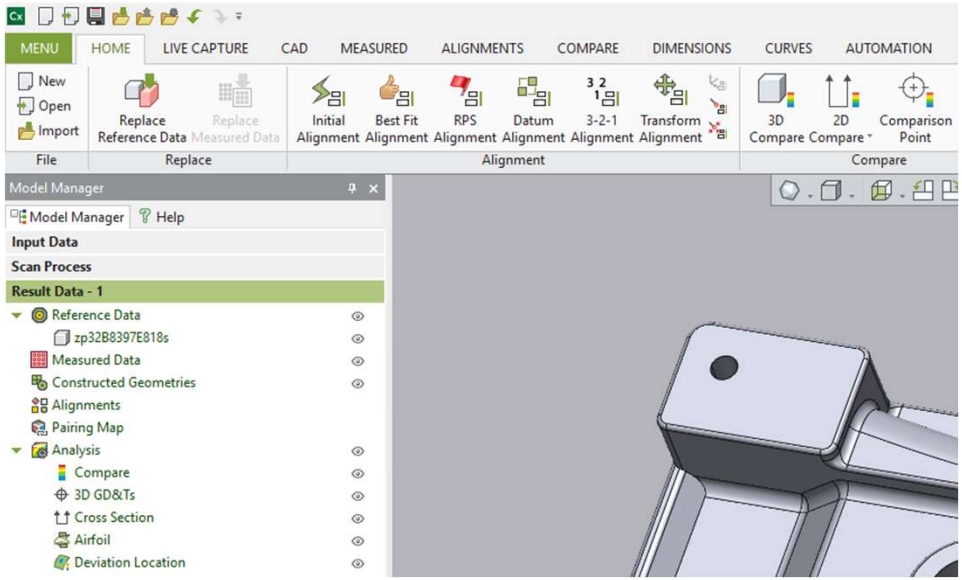
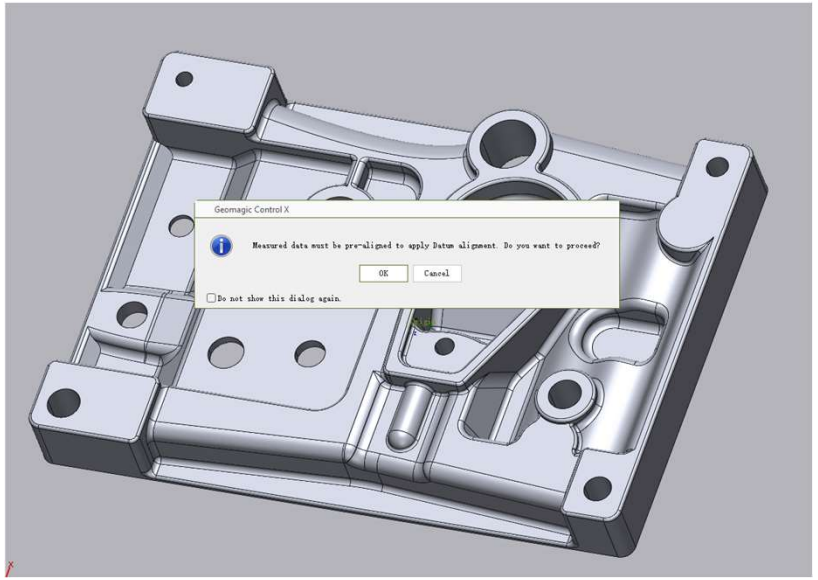
Probe in Control X

Probe

- Based on the CAD design file, create a feature alignment. Ignore the pop-up message and click “OK” to proceed with feature selection.





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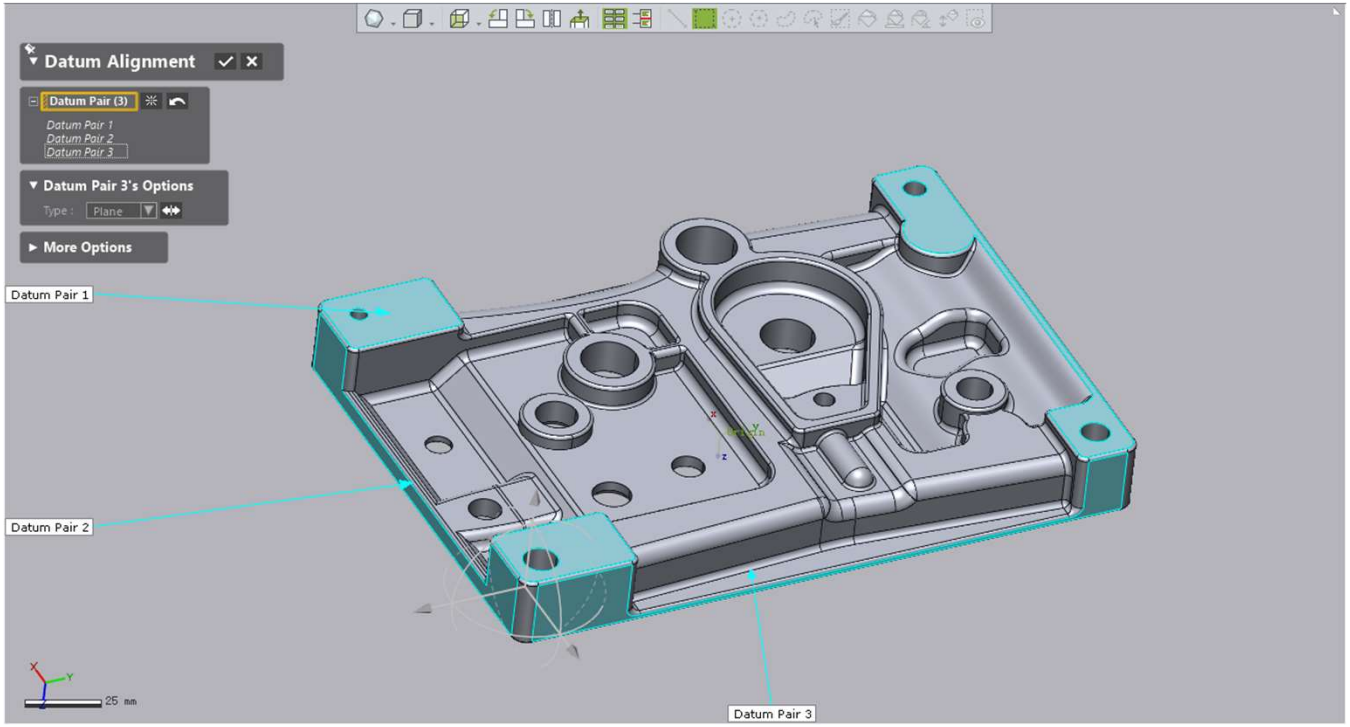
Probe in Control X

Probe

- Create feature alignment. Click the “√” to exit.



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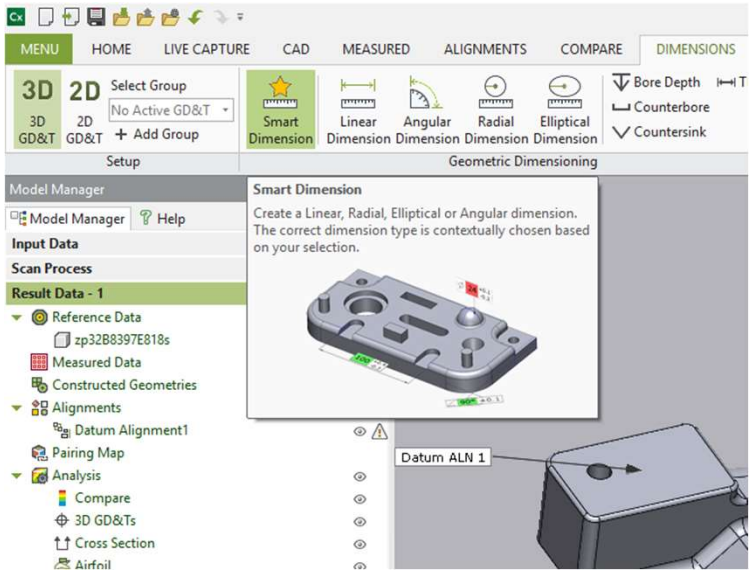
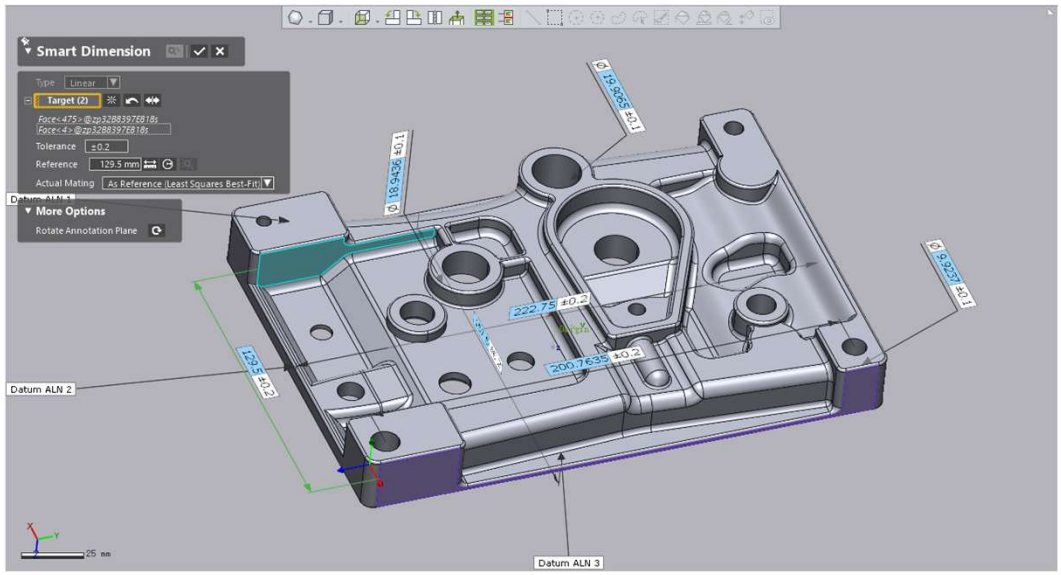
Probe in Control X

Probe

- In “DIMENSIONS,” select “Smart Dimension” to create GD&T. Click the “√” to exit.





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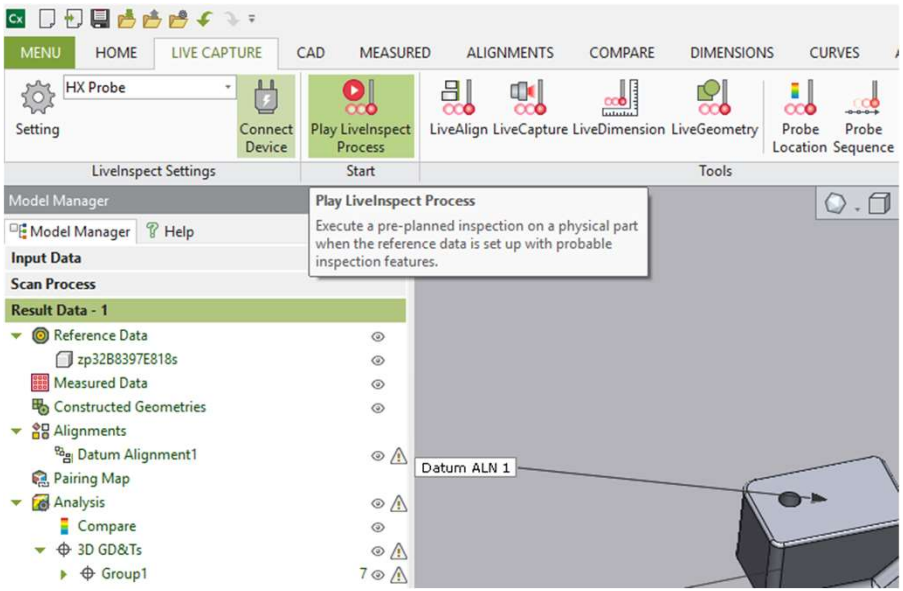
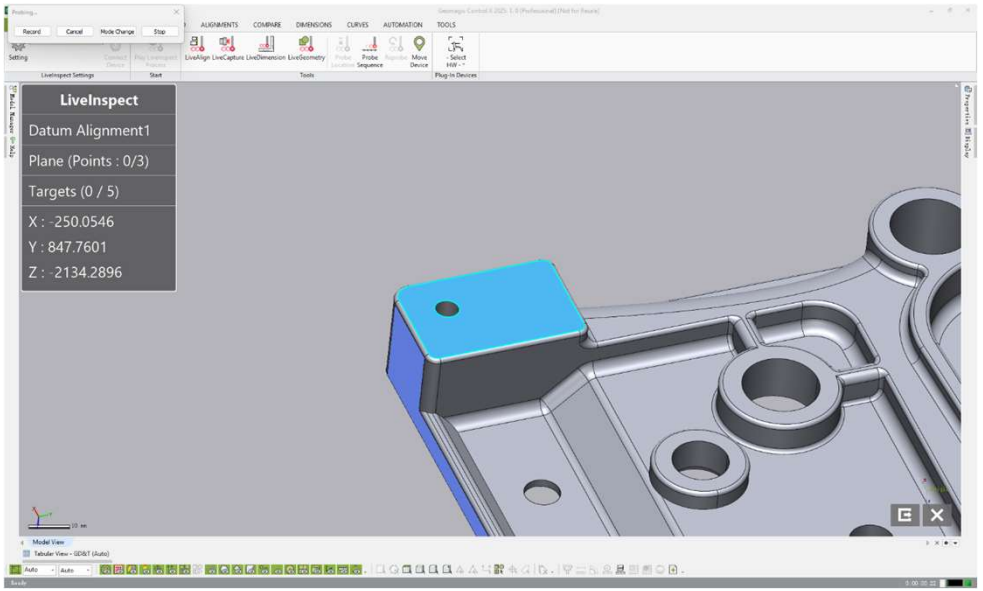
Probe in Control X

Probe

- Under LIVE CAPTURE, select “Play LiveInspect Process,” and Control X will automatically navigate to the feature detection screen for feature alignment.





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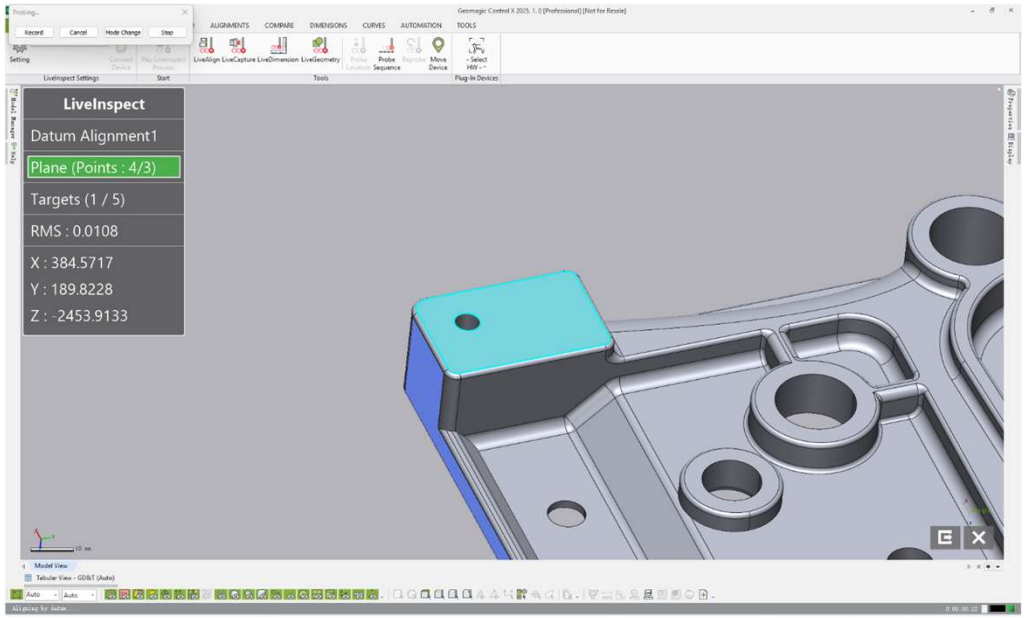
Probe in Control X

Probe

- Tap to activate the light pen, then position the probe over the feature.

- Click the “√” to use the light pen to measure one point on the feature. Once at least three points have been measured, Control X will display a green notification and the RMS value.



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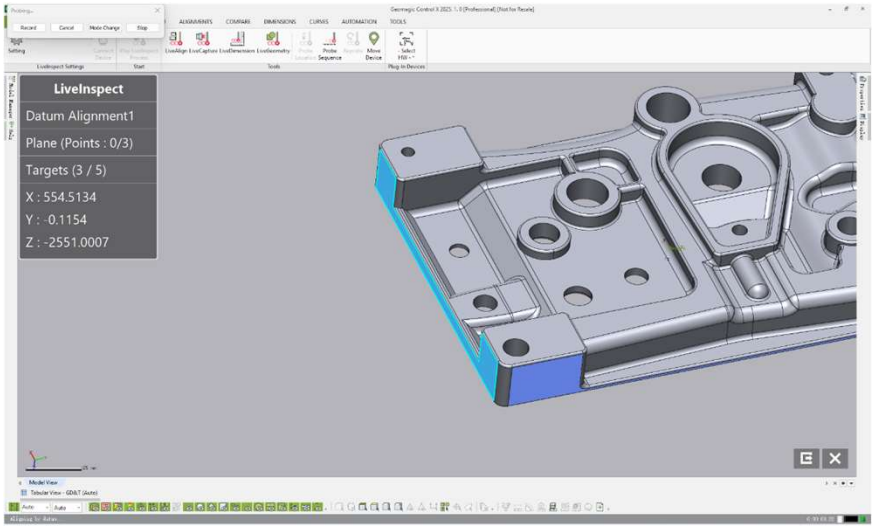
Probe in Control X

Probe

- Click the forward button, and Control X will automatically complete the creation of this feature and move on to the next feature to be tested.



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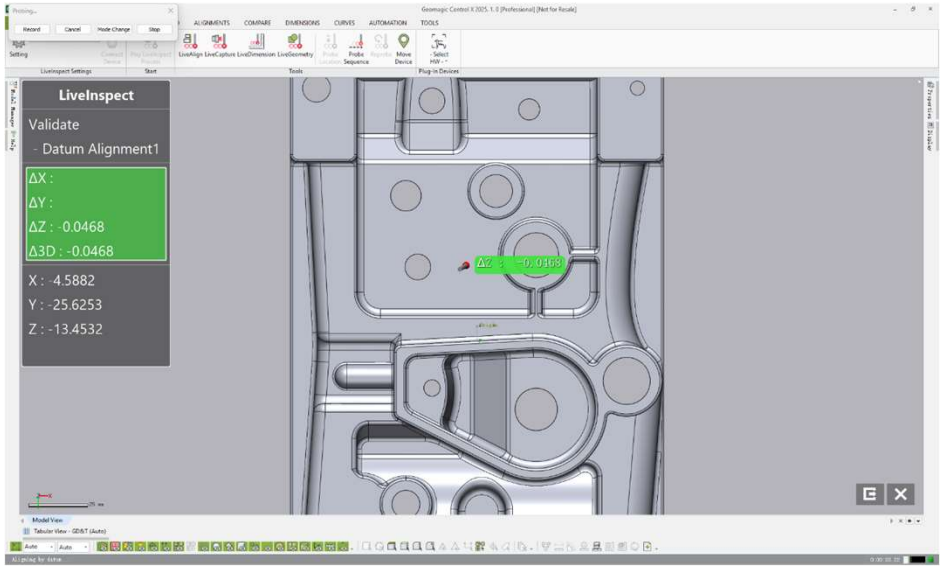
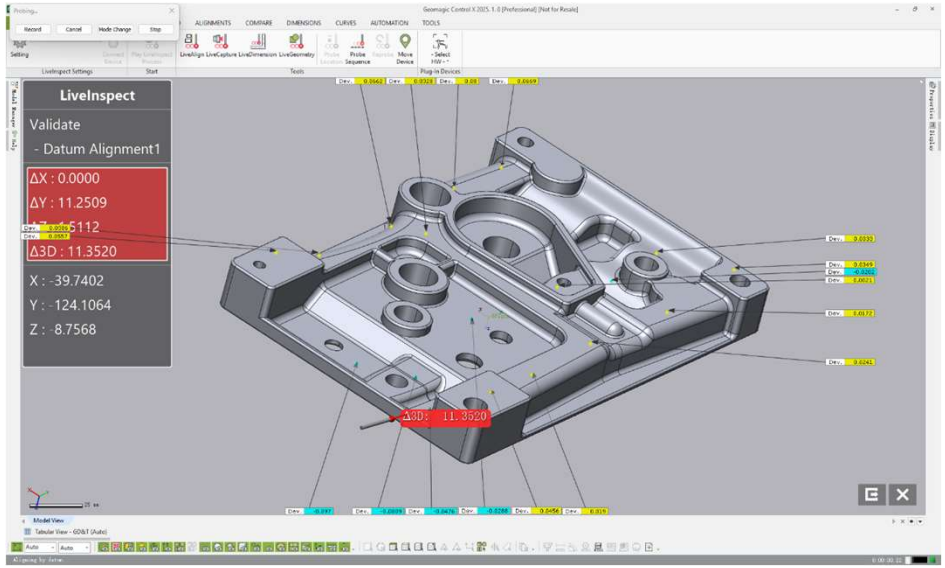
Probe in Control X

Probe

- Once the alignment feature detection is complete, the laser pointer and CAD software will automatically align the objects.
- After alignment, the system will automatically switch to the surface deviation detection function. Move the laser pointer to mark points on all relevant surfaces and calculate the deviations.





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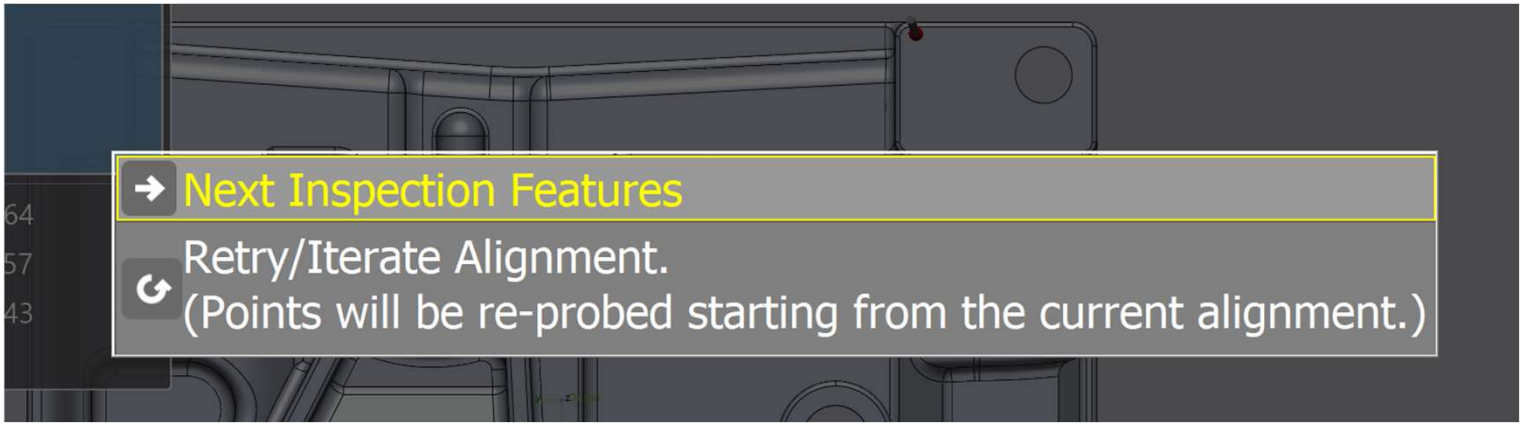
Probe in Control X

Probe

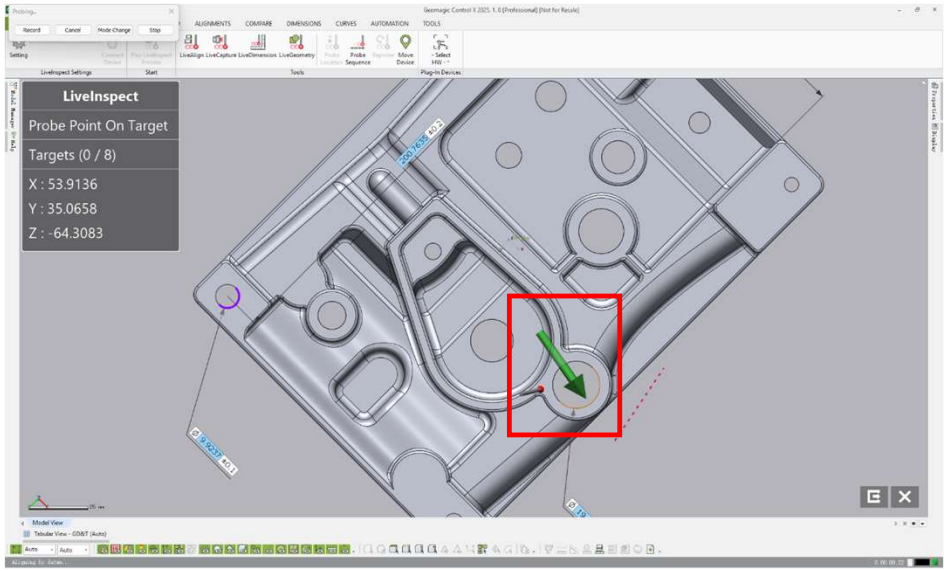
- Click the Back button to exit the surface inspection feature.
- Click “Next Inspection Features” to proceed to GD&T inspection.

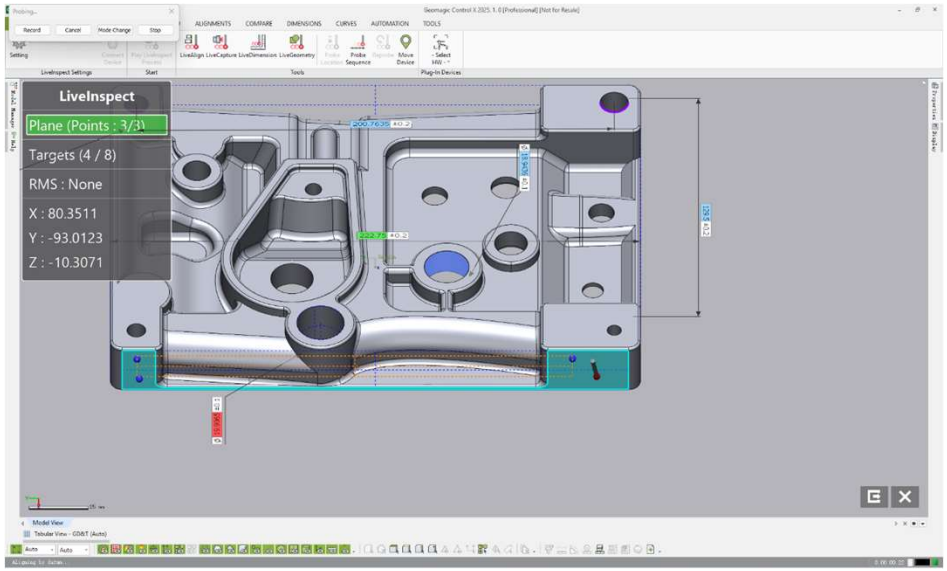


Probe in Control X

Probe

- Follow the arrows in Control X to inspect the various features.





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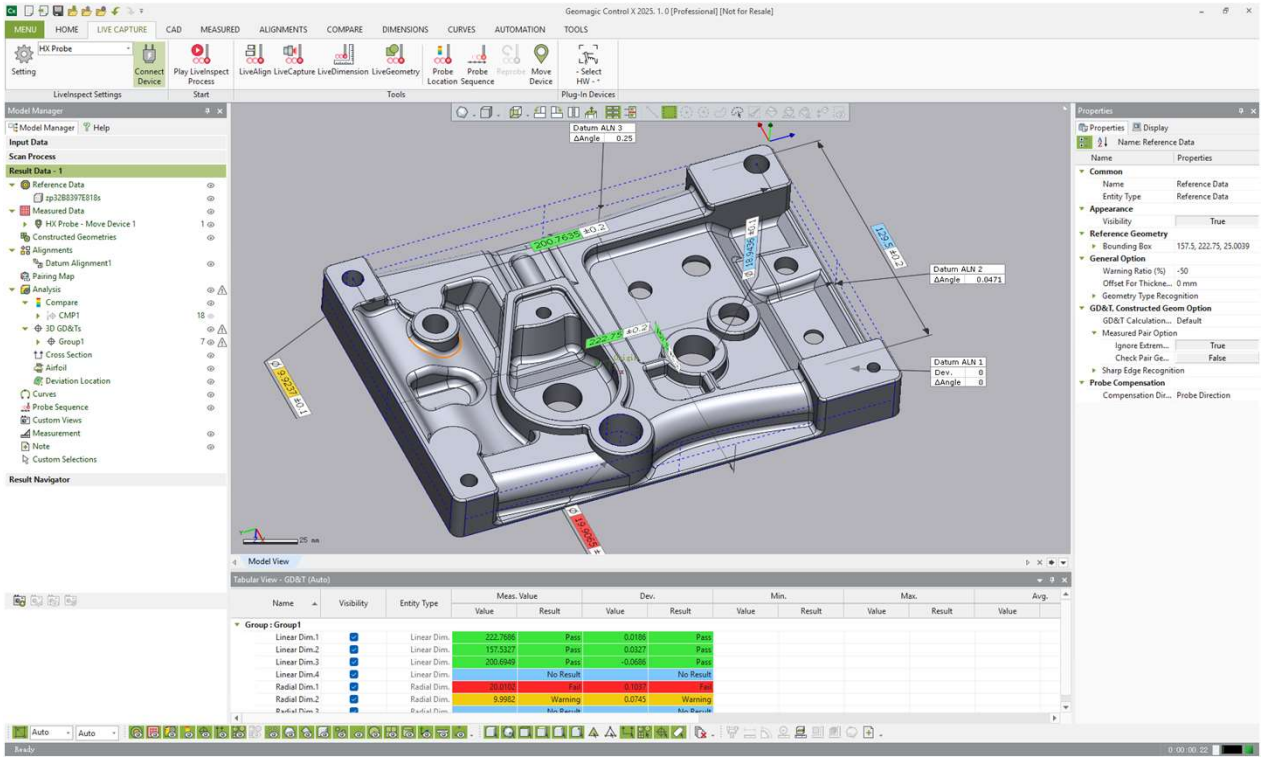
Probe in Control X

Probe

- Probe complete.



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Tips

Tips

Connection

- If HHSCAN 2026.3 and Control X lose connection or data cannot be transmitted between them, please close HHSCAN and Control X, then unplug the Bluetooth transmitter module. Reinsert the Bluetooth transmitter module, and follow the instructions in this tutorial to reopen HHSCAN and Control X and reconnect them.

- Should you need the HH Scan 2026.3 or above version, you can download them from our Portable MI download portal

If you have any questions, please contact local Hexagon representative.

THANK YOU

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