



# Geomagic Control X

## Why upgrade to Geomagic Control X 2023?

### New Features Comparison by Major Release

New Features Comparison by Major Release	V23	V22.0	V20.0	V18.1	V17
Select Poly-Faces by Angle (23.3)	•				
Plugin for Hexagon Absolute ASI-XL scanner (23.3)	•				
Merge scans from all existing scan groups into a single mesh when scanning using Hexagon Structure Light Scanner (23.3)	•				
Retain Preference settings from the current version when upgrading to a newer version (23.3)	•				
Updated action items in Visual Scripting to expand its capabilities (23.3)	•				
Improved and more efficient experience in debugging the visual script (23.3)	•				
UI/UX Improvements (Clipping plane selection from Feature/Model Tree, Customized font for real-time deviation range and geometry type checks) (23.3)	•				
Plugin for Scantech KSCAN-Magic Series, AXE-B Series 3D and SIMSCAN Handheld 3D Laser Scanners (23.2)	•				
Plugin for Scantech TrackScan-Sharp and TrackScan-P Optical 3D Measurement System (23.2)	•				
Plugin for Scantech K-Probe and T-Probe probing devices (23.2)	•				
Plugin for PMT Alpha ARM Series (23.2)	•				
UI/UX Improvements (Customized font for Measurements and Color Bar) (23.2)	•				
Support for Chinese (Traditional) (23.2)	•				
Improvements and increased robustness for the automation server (23.2)	•				
New and updated action items in Visual Scripting to expand its capabilities (23.2)	•				
Localized Visual Scripting Editor (23.2)	•				
Subscription Licensing (23.1)	•				
New and updated action items in Visual Scripting to expand its capabilities (23.1)	•				
Connection between automation server and visual scripting to support more workflows (23.1)	•				
Improvements and increased robustness for the automation server (23.1)	•				
GD&T: 2D Line Profile & Deviation Option for Surface Profile (23.1)	•				
Additional alignment methods for the Hexagon SLS plugin (23.1)	•				
Import the latest versions of CAD software (23.1)	•				
Customize and Automate Workflows using Visual Scripting	•	•			
Scan with Hexagon Structured Light Scanners within Control X	•	•			
Unequal Tolerance in Surface Profile	•	•			
Use mesh as reference data	•	•			
Updated native CAD file import along with PMI for most formats	•	•			
Improved CAD tessellated mesh segmentation	•	•			
New Flexible Geometry Creation Methods in LiveGeometry	•	•	•		
New P.C.D. (Bolt Hole Circle) Method to LiveGeometry	•	•	•		
Define Probing Method for Pre-Planned Inspection	•	•	•		
Define Local Plane creation for Pre-Planned Inspection	•	•	•		
Automatic Geometric Tolerance Calculations in DRO during Live Capture	•	•	•		
Enhanced Progress indicator in DRO during LiveInspect	•	•	•		
Move Device Enhancement: Remove Outlier Points and Refit	•	•	•		
Move Device Enhancement: Export Transform Matrix	•	•	•		
New Probe Data Management to Remove Outlier Points and Recalculate	•	•	•		
X, Y, and Z components can be tolerated for Reference Geometry and Comparison Points	•	•	•		
X, Y, and Z components can be viewed for Linear Dimensions, Angular Dimensions, and Position	•	•	•		
ASCII Geometry Importer can import X, Y, and Z tolerances	•	•	•		
Simulated CMM Points are now compatible with Point Cloud data	•	•	•		
Deviation Location can now automatically measure Major Length and Minor Width	•	•	•		
Control X has a new Inspection Viewer mode when unlicensed	•	•	•		

Annotations Presets can be applied to each inspection object	•	•	•		
3D Sprint Files are supported for Import	•	•	•		
Automation Server supports trigger options for multi-scan automation	•	•	•		
Transform Measured Data has a new Datum Match option	•	•	•		
Coordinate Alignment provides discrete control of geometry priority	•	•	•		
Coordinate Alignment allows target position by definition	•	•	•		
Coordinate Alignment now clearly provides Degrees of Freedom information	•	•	•		
2D Section tools have been enhanced for performance	•	•	•		
Probe Two Intersecting Vectors	•	•	•	•	
Improved Mesh Topology During Scanning	•	•	•	•	
Improved 2D Construction Geometry from Cross-Section	•	•	•	•	
Redefine Construction Geometry as Reference or Measured	•	•	•	•	
Added Clipping Plane in LiveCapture	•	•	•	•	
Pair Probe Points with CAD in Pairing Manager	•	•	•	•	
Improved Pairing Map and Pairing Manager	•	•	•	•	
Enhanced ASCII Importing Workflow	•	•	•	•	
Scan Grouping in Model Manager	•	•	•	•	
Added Single Point Circle Option	•	•	•	•	
Acquire Probe Data from One Project to Another	•	•	•	•	
Probe Compatibility with Data from Other Software	•	•	•	•	
Align Probe Data with Transform Measured Data	•	•	•	•	
Free Probe in LiveScan	•	•	•	•	
Added Save Current Profile to Manage User Profiles	•	•	•	•	
Optimized Tabular View	•	•	•	•	
Updated Hardware Device Compatibility for AICON, Creaform, FARO, Kreon, Nikon, and RPS	•	•	•	•	
Added Progress Indicator during Auto-Update	•	•	•	•	
Enhanced Anonymous Usage Statistics	•	•	•	•	
Ref. Geometry Automatically Grouped for Reporting	•	•	•	•	
Added User Profiles	•	•	•	•	
New Deviation Location Feature	•	•	•	•	
New Airfoil Analysis	•	•	•	•	
New 2D Twist Analysis	•	•	•	•	
New Scan Process Automation Tools	•	•	•	•	
New Probe Location Tool	•	•	•	•	
Customize Metrology Standards	•	•	•	•	
Toggle On and Off Global Coordinate System	•	•	•	•	
Updated CAD File Import	•	•	•	•	
Support for WRP and GEODOC Files	•	•	•	•	
New ASCII Geometry Import	•	•	•	•	
Edit Geometry in Tabular View	•	•	•	•	
Pair and Unpair Geometry from Model Manager	•	•	•	•	
Construction Geometries in Model Manager	•	•	•	•	
Enhanced Result Navigator	•	•	•	•	
Improved LiveInspect	•	•	•	•	
Added Re-Align To Existing Measure Data Option in Replace Measured Data	•	•	•	•	
Enhanced Report Tools with 3D PDF	•	•	•	•	
Alignment Matrix Exported as CSV	•	•	•	•	
Automatic Regenerated Measured Geometries	•	•	•	•	
Tessellate CAD Option in Import Tool	•	•	•	•	
Performance Enhancements in Scan Pair Searching, Best Fit Aligning, 3D Compare, and Point Cloud Handling	•	•	•	•	

## Get In Touch

Contact us for a demo at [oqton.com/geomagic-controlx](https://oqton.com/geomagic-controlx)

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Automatic Error Reporting	•	•	•	•	
Added Reprobe Tool	•	•	•	•	•
Added GPD File Support	•	•	•	•	•
Improved Scanning and Scan Processing Performance	•	•	•	•	•
Improved Probing UX and Performance	•	•	•	•	•
Improved CAD Platform	•	•	•	•	•
Twelve Languages Added	•	•	•	•	•
Added Status Indicator for LiveScan and Replace Measured Data	•	•	•	•	•
Optimized Mesh Buildup Wizard	•	•	•	•	•
Edit Radius Size of Probe Data	•	•	•	•	•
Licensing Upgrade	•	•	•	•	•
Synchronous Inspection	•	•	•	•	•
Multiple Results System	•	•	•	•	•
Walk-up Probing	•	•	•	•	•
Repeatable Probing Processes	•	•	•	•	•
Automatic Report Generation	•	•	•	•	•
CAD Aware Dimensioning and Tolerancing	•	•	•	•	•

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