

Trimble RealWorks



GEOSPATIAL

May 2023

Version 12.4.2 Release Notes

Introduction

These release notes describe the features and enhancements that are new in version 12.4 of the Trimble® RealWorks® software. For further information, visit www.trimble.com/support/.

System Requirements

- Operating system: Microsoft® Windows® 8.1, 10, 11 - 64 bit
- Processor: minimum 2.8 GHz (Quad-Core) or higher, (additional cores with Hyper-Threading support strongly recommended)
- RAM: minimum 16GB (32GB and higher recommended)
- Graphics card: OpenGL 3.3 compatible with minimum 1GB VRAM (3GB or higher and OpenGL4.4 recommended)
- NVidia graphics cards based on the Ampere architecture (RTX Axxx series) are currently not supported in commands 'Auto-Segment Steel Beams' and 'Auto-Segment Moving Objects'
- 3-button mouse

Other requirements

Solid State Drive (SSD) for maximum performance (pref. 500GB) - strongly recommended.

Upgrade Procedure

Install the software from this location (**Internet connection required during installation and license or subscription verifications**): [Support and Downloads](http://www.trimble.com/support/)

<http://geospatial.trimble.com>

New Features and Enhancements

Support

Description	New or Enhanced	Feature Overview	Benefit/Comments
Trimble X9	New	The Trimble X9 gives you the power to do more. Features include a capture rate of 1 million points per second, a range of 150 meters, auto calibration and leveling, and improved sensitivity for difficult environments. Process X9 data in the same way as the X7, leveraging the entire workflow from Trimble Perspective and Trimble RealWorks.	New product support

Data and Visualization

Description	New or Enhanced	Feature Overview	Benefit/Comments
Scan colorization and panorama image creation	Enh	The quality of panorama creation and scan colorization has been improved: better image stitching at the edge of the scan, better blending at occlusion areas. This applies to data from Trimble X7 and X9 scanners.	Data quality
Panorama JPEG export	New	Export high quality panorama images as 2:1 JPEGs when importing TDX file format or importing via Import and Register.	Data visualization and interoperability
Panorama position and orientation parameters	New	Export a .csv file containing the panorama position and orientation parameters to visualize in image viewing software.	Data visualization and interoperability
Cloud-based Registration default cloud colors	Enh	The default color options for the reference station and moving station are now orange and blue respectively. These color choices are recommended for those with Color-Vision Deficiency and align with the colors used in Trimble Perspective.	Usability

Resolved Issues

- **TZF Import:** failure to import TZF files into an existing project not containing TZF files
- **Inspection Map:** inverted image when using cylindrical or tunnel projections
- **Export Orthophoto to DWG/DXF:** inverted image when exporting
- **Project Load Times:** resolved slow project load time regression introduced in 12.4.1
- **Target Analyzer:** resolved target extraction issue with scans over 150 million points
- **Scan Explorer:** resolved pixelation issue when using color-coded intensity display
- **Memory Leak:** resolved unnecessary memory usage when displaying/hiding images

Note: The updated API for the FARO .fls format has not been provided to Trimble, meaning FARO Premium scanners are not supported by Trimble RealWorks or any other Trimble product.

Legal Notices

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Release Notice

This is the May 2023 release of the Release Notes. It applies to version 12.4.2 of the Trimble® RealWorks® software.

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