

Terramodel[®]

including Geocomp Update

Release Notes

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- New features



Version 10.13
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Release Notice

This notice includes extracts from the January 2003 release (Revision B) of the Terramodel Release Notes, Trimble part number 0321-0804. It applies to version 10.13 of the Terramodel® software.

These release notes are for Trimble Terramodel® 10.13 with Geocomp Update.

Product Information

This is a complete installation of Terramodel 10.13, including the Geocomp Update. It will update Terramodel 10.12 if already installed.

These release notes describe changes and new features to Terramodel since 10.12 with Geocomp Update so refer to *Terramodel 10 User Guide* and *Trimble Terramodel 10.12 with Geocomp Update Release Notes* where needed.

For other applications on this CD, see their separate *Release Notes*.

See `\Documentation\en>List of Terramodel 10.13 manuals.pdf` on the CD for more manuals supplied on the CD.

Installation

When you insert the Geocomp Systems installation CD for Terramodel 10.13, an AutoRun menu should appear.

Installing Terramodel 10.13

Terramodel 10.13 requires Windows 95, 98, Me, NT, 2000 or XP. If you use the Geocomp Data Collector interface with certain data collectors, you may require Windows 95, 98, NT, 2000 or XP Pro.

You will need administrator user privileges.

Select the first option from the menu to install (or uninstall) Trimble Terramodel 10.13 in your preferred language.

During installation, you will get requests to display *readme* files. Select No, because the relevant content is repeated in this document you are now reading.

Terramodel 10.13 is added to the programs in the *Start menu* under *Trimble Office*. You also have the opportunity to add a Terramodel shortcut to the Desktop.

Coordinate System

The Terramodel installation can modify coordinate systems used by functions such as COORDCON, GEOSYS and Coordinate System Manager and other Trimble applications such as Trimble Data Transfer and SiteVision. If you have already set a coordinate system in any Trimble application, select No when you are asked “Would you like to replace the coordinate system and sites?”.

Don't reboot yet

If you are asked to reboot at the end of the installation, select No.

Also, you don't need to display the *release notes* (as you are already reading a newer version).

Geocomp Update

Once Terramodel 10.13 is installed, you will be asked whether you want to install the Geocomp update. You can install it now, or select the Geocomp Update from the menu later.

The Geocomp Update extends Terramodel 10.13 with new and modified programs developed by Geocomp Systems. It also modifies the Windows Registry and *.ini* files. This upgrade is available free of charge for each Terramodel licence with a current Geocomp Systems Customer Care membership. To join, see <http://www.geocomp.com.au/contact/>.

This installation updates files such as *tmodwin.ini*, *p3server.ini* and *alias.ini* to include new default prototype and AutoDraft Configuration files. You can easily reselect your existing prototype and *.adc*. However, before installation, you may want to back up files you may have changed that might be overwritten or updated. If you do copy an old *tmodwin.ini* file into Terramodel 10.13, please refer to *Trimble Terramodel 10.12 with Geocomp Update Release Notes* for an explanation of the Terramodel Search Path.

Hydrographic Data Management System

If you prepare hydrographic charts, at this point you may want to install the Terramodel Hydrographic Management System (TM HDMS) from the AutoRun menu on the CD. To use HDMS, refer to *hdms.pdf* installed with the software.

Checking installation

After completing the installation, reboot. In Terramodel, select About from the Help menu. This will confirm the version of Terramodel and the modules.

If the only module listed is Field Data, either no modules have been found on the key, the key cannot be found, or the lock version needs to be updated.

If there is no Products button next to the OK button, the key cannot be found and you should see Rainbow Sentinel System Driver and Sentinel Keys below.

Click on the Products button. If the lock version is 0 or 1, you will need to upgrade the lock version to 2 to activate the modules for Terramodel 10.12. If so, see *Trimble Terramodel 10.12 with Geocomp Update Release Notes*, any instructions provided with your upgrade code or go to <http://www.terramodel.com/LockUpdate/>.

Blue crosses are permanent modules. Blue clocks are timed modules. If timed, note the number of demo days left.

Try a few commands from the menus and toolbar. Try a TML that is only included with the Geocomp Update such as GCIMPORT.TML.

Rainbow Sentinel System Driver and Sentinel Keys

Terramodel modules, except Field Data, are secured with a Rainbow Sentinel SuperPro key. The key contains the code indicating the licence number, modules and version and plugs into either a USB or parallel port.

For most computers to see the key on the port, the Rainbow Sentinel System Driver needs to be installed.

Remove any USB keys before installing or removing the Sentinel System Driver. Otherwise, the USB portion of the driver installation might fail.

Terramodel installation should install the Rainbow Sentinel System Driver automatically. You can install version 5.41 of the driver directly using the AutoRun menu.

The latest driver and a troubleshooting guide is available from http://www.rainbow.com/support/eu_support.htm#sentinel.

Some new Toshiba notebooks only allow the Sentinel System Driver to activate the USB port, and not the parallel port. If Terramodel cannot find the key on the parallel port of a Toshiba notebook computer, even after installing the driver, see <http://www.geocomp.com.au/support/toshiba.html>.

See <http://www.geocomp.com.au/support/dongle.html> for more about Sentinel keys.

Please specify whether you want a USB or parallel port key at time of purchase.

Other applications

The AutoRun menu on the CD includes installations for:

- Trimble Terramodel 10.13
- Trimble Terramodel 10.13 Geocomp Update
- Trimble Terramodel Visualizer 2.04
- Terramodel Hydrographic Data Management System 1.9.5
- Trimble Data Transfer 10.7
- Rainbow Sentinel System Driver 5.41
- Adobe Acrobat Reader 4

For more information, see the release notes for each application. Each installation also includes the option to uninstall.

There is also a link from the menu to <http://www.ztree.com/html/ztreewin.htm>. From this site you can download a trial version of ZtreeWin, the file manager we recommend.

Changes

This update includes the following changes to Terramodel since 10.12:

Dialog box elements now align vertically whereas, in the English (UK) and Geocomp Update releases of 10.12, they did not.

ARC is now aliased to **GCARC** which allows for the creation of either a set or pline arc.

COORDCON now transforms points, plines, blocks and text and includes a new Australian and New Zealand menu option. The Perth Coastal Grid coordinate system has been corrected.

GC01 (Truncate names) now has a delete option and allows for text as well.

GC04 (Create point at midpoint of short plines) creates a single point at the centre of plines forming a cross.

GC20 (Volume report) now leaves existing points in layer 0 alone.

GC37 (Intersect xlines with sets) now can create cross section (.CES) file, create points, report or sort.

GC40/GC40A/GC40M (Compare points in two layers) can now use alphanumeric point numbers, alignment or search ranges.

GC50 (Modify 2D elevations along set) now allows for arcs.

GC51 (Intersection design) now stores multiple intersections.

GC57 (Swap in X, Y or Z) now handles points, plines, blocks and text.

GCPTSIN (Import coordinates) now includes from Geocomp Field and Geocomp Control Point files.

Raw Data Editor now adopts a bearing of 0°00'00", where there is no backsight.

Scripts The Topcon FC6, Liscad, Sokkia, Geocomp FLD, TDS Roads, DC and DC Roading scripts have been updated.

TDS Roads

- Import/Export Scripts – corrects script name
- Export – creates the 8.3 format file name required by TDS
- Export templates – creates segment names for all segments
- Export template slopes - writes in correct format
- Export – Exports TDS job files in the new SP 3.5.X format. Users may need to update their firmware.
- Export – Warns when the number of elements changes from one template to the next. (Terramodel has no constraints on varying the number of elements. TDS instruments require that the number of elements does not vary from template to template.)
- Import – Now uses widening data as an absolute value
- Import – Now supports non-tangential elements in HALs and VALs

DC Roading

- Import – Supports asymmetrical vertical curves by creating two parabolic curves
- Import – Now supports non-tangent elements, including spirals
- Import – Adds zero length segments to the ends of templates with different numbers of segments (before tie shapes) for transitioning
- Export – Now supports widening template transitioning
- Export – Now supports non-tangential alignments

TML LIST The latest list is at
<http://www.geocomp.com.au/support/tmlist.htm>.

The TML list current with this release is installed to
\\Program Files\\Trimble\\Terramodel\\Geocomp\\tmlist.htm.

You can also go to these lists through the menu under Help.

Please take the time to look through the index of the list as may find something powerful that you will need sometime.

VIEWSCAL has new arguments for resizing text for readability.

New features

Aliases Many new aliases have been added to alias.ini including alternative spellings and file conversions. For example, now AUTOCADOUT, ACADOUT, DXFOUT, DFXOUT and DWGOUT all launch the AutoCAD export script. You can easily add your own using ALIAS.

F8C Toggle on and off a configurable symbol on all visible points.

FLIPUP Create an elevation view from points relative to an alignment.

GC70 Combine elevation of point and DTM allows you to add, subtract, multiply or divide.

GC75 Report distance and slope between sets.

GC82 Compute DTM Areas within boundaries. Can use slope ranges.

GCDAMVOL Compute water volumes within boundaries.

GCDCOUT Export alignments and intersecting sets to DC Roading.

GCGSIOUT Export alignments to Leica GSI.

GCGTSOUT Export alignments to Topcon.

GCMULTDC Export multiple alignments to DC.

GCIMPORT GSI/GRE import supports new formats.

GCLABGRD Control text spacing from border.

GCMATCH, GCONECON & GCMULCON GCRIVER

Manipulate digitised contours.

GCQA Compare as-built elevations with design DTM.

GCRENUM Sequentially rennumbers points in sets.

GCSDROUT Export alignments and intersecting sets to Sokkia SDR.

GCSKIPMN Sort, edit, import or check for overlapping skips.

LC Locate coordinate.

LINEINT Evenly space points on set between two points.

MXVALIN Import VAL from MX report.

Paydirt SiteWork The Geocomp Update modifies Site32.ini, if found in the Windows folder, so that Paydirt Sitework launches Terramodel 10.13. Paydirt Sitework is distributed on a separate CD.

RPAN Recentre display.

SIGHTDST Compute vehicular sight lines for a road design.

Trimble Data Transfer

Trimble Data Transfer 10.7 can be installed from the AutoRun menu. This utility enables communication with various Trimble, Geodimeter and other instruments.

This utility will also update the Terramodel Remote Device Manager. This may be required to communicate with certain new Trimble instruments, such as the Active Control Unit.

See <http://www.geocomp.com.au/support/terramodel/acu.htm> for help with communication between Terramodel 10.13 and the Trimble ACU.

VRMLIN Import Virtual Reality (VRML) models.

VRMLOUT Export models to VRML.