
NEW SYSTEM 1200 FIRMWARE V1.52 (CONT)

The last newsletter described the new features of the “main” firmware within the new System1200 v1.52 firmware.

This newsletter focuses on the new loadable application programs which are available and also the new features added to existing programs such as COGO and RoadRunner. Remember that application programs such as COGO, Stakeout and RoadRunner are loadable and must first be loaded onto the instrument before they can be used.

It is important to note that the existing, previously available loadable application programs (v1.35 or earlier) will not run with the v1.52 firmware. So if you load the new v1.52 firmware and wish to use COGO, Stakeout, RoadRunner or any other loadable application program then you must also load the new application program. These loadable applications can be available from your local Leica representative or can be downloaded from the Leica download website: <http://downloads.leica-geosystems.com/downloads/index.htm>

Remember also that some application programs are available free of charge and others must be purchased. Purchasable application programs can however be used free of charge for a 30 day period.

NEW APPLICATION PROGRAMS

The following new application programs are now available.

REFERENCE PLANE

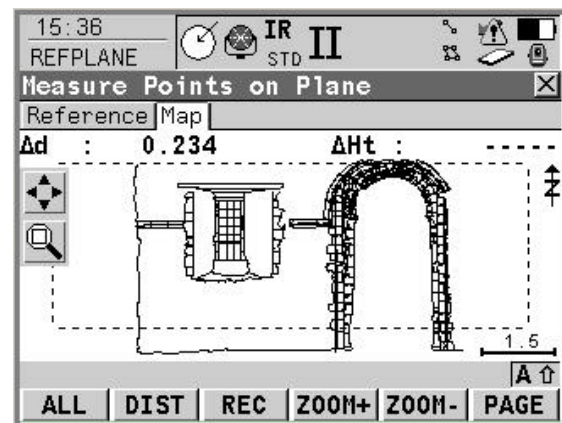
This application program is available for both GPS and TPS instruments (TPS: art no. 734181, GPS: art no. 742590).

This application program is based on the old TPS1100 Reference Plane program and also incorporates the TPS1100 Face Scan program – but has been very much enhanced. The main features include the following:

Any number or vertical, tilted or horizontal reference planes can be stored in a job and can be recalled to be used at any time. These planes can be defined by any number of points by measuring new points and/or using previously measured points. Each plane can be offset by a certain distance, or offset to a selected point. Additionally, an origin point for the plane can be selected with “local plane specific coordinates” being assigned to this point.

Once a plane is defined, points can be measured to this plane (or previously measured points can be selected and compared to the plane) – the perpendicular and vertical offsets of these points relative to the plane are displayed.

Throughout the Reference Plane application program (and as for any other application program), a graphical map of surveyed points is available. Additionally for the Reference Plane program, it is also possible to view the map an “elevation” view – that is, orthogonally to the plane as shown below.



This functionality allows the visualisation of what has been measured when surveying building faces or any other vertical or tilted planes. Additionally, when viewing a map in this new “elevation” view, a slice width (or distance) can be defined which means that only points which fall into this distance from the plane are displayed.

For TPS1200 only, an area to be automatically scanned can be defined and the spacing at

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which points should be measured can be configured – this area is then scanned automatically.

And of course, as with all other applications, the **Format Manager** software has been extended to allow comprehensive log files to be created.

ALIGNMENT TOOL KIT

This application program is available free of charge for both GPS and TPS instruments (TPS: art no. 737844, GPS: art no. 739681).

This program allows new alignments to be created or existing alignments to be edited – these alignments are then used in the Road-Runner application program.

Both horizontal and vertical alignments and chainage equations can be entered with a graphical representation of the entered alignments. Straights, arcs and spirals (clothoid and cubic parabolas) are supported for horizontal alignments and straights, arcs and quadratic parabolas are supported for the vertical alignment. It is even possible to create alignments “on the fly” by using points surveyed in the field.

The map view is of course fully supported throughout the application with the possibility to view horizontal and vertical alignments.

TPS HIDDEN POINT

This application program is available for TPS instruments only (art no. 742442).

This allows points which cannot be directly measured with a TPS instrument to be measured by first measuring to 2 (or 3) other points.

If needed, the Hidden Point rod as shown below is now available to make this task even easier (art no. 742329).

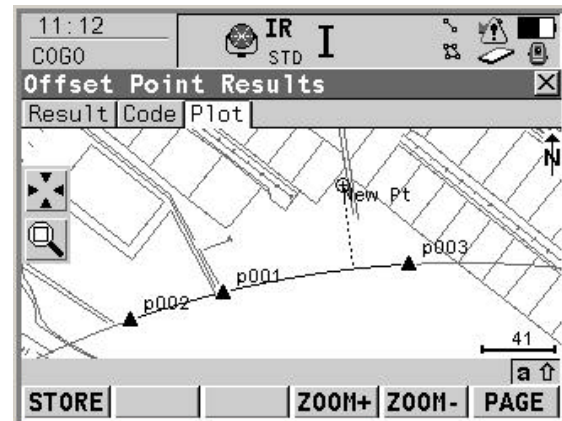


IMPROVEMENTS TO EXISTING APPLICATION PROGRAMS

The following improvements have been made to the existing application programs.

COGO

It is now possible to make additional COGO calculations relative to lines and arcs.



Lines and arcs can be defined and then either the coordinates of a point at a defined distance along the line and offset relative to the line can be computed.

Alternatively, a point can be selected and then the distance along the line and offset to the line is computed – also, the coordinates of the “base point” on the line are computed.

Additionally for arcs, the coordinates of the centre point of the arc can be computed.

STAKEOUT

For GPS instruments, it is now possible to define if the line or point which is being used as the orientation point should be chosen from the stake or store job. This can be selected in the **STAKEOUT Configuration** panel – **General** page view.

ROADRUNNER

Numerous new features have been made to the RoadRunner application program. A future

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newsletter will focus on these improvements, but for now, it is recommended to read the System1200 v1.52 Release Notes which can be obtained from the Leica download web page:

<http://downloads.leica-geosystems.com/downloads/>

SUMMARY

The new System1200 v1.52 firmware is now available. It is protected and therefore needs a valid maintenance contract to be used - it is available now and can be obtained from the Leica web download site.

Existing, previously available loadable application programs (v1.35 or earlier) will not run with the v1.52 firmware. So if you load the new v1.52 firmware and wish to use COGO, Stake-out, RoadRunner or any other loadable application program then you must also load the new application program.



Please contact your local Leica representative if there are specific topics you would like covered in these newsletters.

We welcome all suggestions for TPS1200, GPS1200, specific applications or LGO. We look forward to receive your ideas.

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