RefSet

Automatic Reference Line and Stakeout Program for Leica TS15/MS50, TS16/MS60

Release Notes

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Version:	V3.2
Release Date:	01 Nov 2024
Changes:	Add Map View to Stakeout functions
	Add Reference Line selection by line segment in Map View
	Improvements in DXF file read times
	Add DXF file conversion to simple DXF to ensure the DXF File is valid when adding/measuring points to the file
	Add Text and Arrow Labels in Map View for DXF files
	Add Background DXF in Map View for other data file types
	Add Point ID description character separator option to allow Point Descriptions in Point IDs
Bug Fixes:	Fix incorrect error message when Virtual Geocom not installed on instrument
Known Issues:	See v3.0 below

Version:	V3.1
Release Date:	20 Apr 2022
Changes:	Add Distance Units setting in Config for metres or feet
	Add ASCII data file type
	Add DXF option to save data to a provisional CSV file for faster subsequent loading of DXF files
	Add Auto Start Delay setting in each stakeout functions config to delay start of auto stakeout
	Add Auto Survey to Survey function for automatic recording of points based on instrument movement
Bug Fixes:	Fix DXF file not reading 2D Polylines and not reading and applying Extrusion Transformation
	Fix crashing if Profiles Folder was empty
Known Issues:	See v3.0 below

Version:	V3.0
Release Date:	09 Oct 2018
Changes:	Remove Suspend and Shut Down buttons from start screen on TS16 or MS60 instruments which causes Captivate to crash Program name change from "RefSet Viva" to "RefSet" Add Target Type selection to Survey Rig/Holes function to enable using prisms as well as Reflectorless measurement
Bug Fixes:	Fix problems with upper/lower case alpha character input
Known Issues:	On TS15 instruments with Smartworx firmware version 6.03 or higher RefSet has problems when Smartworx is left running in the background, so on these instruments you <u>MUST</u> Exit the Leica Smartworx program and not just Minimise it before running RefSet

Version:	v2.9
Release Date:	22 Feb 2018
Changes:	Nil
Bug Fixes:	Fix RefSet not working on TS16 or MS60 instruments with v3.0 or later of the Captivate firmware
Known Issues:	On TS15 instruments with Smartworx firmware version 6.03 or higher RefSet has problems when Smartworx is left running in the background, so on these instruments you <u>MUST</u> Exit the Leica Smartworx program and not just Minimise it before running RefSet

Version:	v2.8 Beta
Release Date:	20 Sep 2015
Changes:	Add support for TS16/MS60 instruments
Bug Fixes:	Nil
Known Issues:	Nil

Version:	v2.7
Release Date:	22 Jun 2015
Changes:	Add *Stakeout Laser* function to install alignment lasers on curved and straight development drives
	Add *Stakeout Profile* function to check and stakeout development drive profiles on the drive face
	Add *Grade Display* options in the main RefSet configuration (V:H, H:V, %) to set the way grades are displayed
	Add *Screen Options* in the *Survey* functions to enable the information displayed to be changed
Bug Fixes:	Fix map view display when data file has negative coordinates
Known Issues:	See v2.6

Version:	v2.6
Release Date:	18 Jul 2013
Changes:	Change the *Check Drill Rig* function to *Survey Rig/Holes* to include the survey drill holes function including producing a drill hole report file for the survey
	Add *Offsets* option to the *Survey* function to offset a measured pt
	Add *Use Common Data File* option in the RefSet configuration
Bug Fixes:	Fix laser turning off after auto stakeout in firmware version 5.0
	Fix to stop level check when the TPS compensator turned off
Known Issues:	Previous versions of RefSet before v2.5 will not work with version 4.6 or above of the firmware (Leica SmartWorx) installed. This version will run on instruments with any firmware version including 4.6 and above however a new Leica Virtual Geocom key is needed for version 4.6 and above.

Version:	v2.5
Release Date:	16 Jan 2013
Changes:	Added *Survey* function for doing survey pickups using continuous reflectorless mode with coord check before point storage Added map view for point selection in all stakeout functions and working job display in *Survey* function Auto stakeout speed improvements
Bug Fixes:	Fixed problem with auto stakeout in arc gradelines
Known Issues:	Previous versions of RefSet will not work with version 4.6 or above of the firmware (Leica SmartWorx) installed. This version will run on instruments with any firmware version including 4.6 and above however a new Leica Virtual Geocom key is needed for version 4.6 and above.

Version:	v2.0
Release Date:	02 June 2012
Changes:	Major program update – completely revised program interface Added *Maximum Auto Search Time* to limit the search time in all auto stakeout modes Added *Stakeout Patterns* for auto ring stakeout and function for using a set *Auto Stakeout Height* in auto ring stakeout Added *Measured Line* and *Arc* grade line definitions Added *Check Drill Rig* function for checking the orientation (azi & dip) of drill rigs
Bug Fixes:	n/a
Known Issues:	This version will ONLY run on instruments that have at least version 3.5 of the firmware (Leica SmartWorx) installed

Version:	v1.8
Release Date:	17 Oct 2011
Changes:	Added reading of dxf files
Bug Fixes:	Fixed "No Distance Measured" dialog appearing when a valid distance had been measured Fixed reading string files with points with no point description
Known Issues:	This version will ONLY run on instruments that have at least version 3.5 of the firmware (Leica SmartWorx) installed

Version:	v1.7
Release Date:	26 Sep 2011
Changes:	Nil
Bug Fixes:	Fixed program crashing when +/- key pressed in a blank textbox Fixed negative interval values not working as expected on ARef
Known Issues:	This version will ONLY run on instruments that have at least version 3.5 of the firmware (Leica SmartWorx) installed

Version:	v1.6
Release Date:	19 Sep 2011
Changes:	Nil
Bug Fixes:	Fix program appearing to not work when there were no valid data files in the data folder
Known Issues:	This version will ONLY run on instruments that have at least version 3.5 of the firmware (Leica SmartWorx) installed

Version:	v1.5
Release Date:	05 Sep 2011
Changes:	Nil
Bug Fixes:	Fix program crashing when measuring new points in v1.4 Fix slow point selection when using large data files Various fixes to key input and item selection
Known Issues:	This version will ONLY run on instruments that have at least version 3.5 of the firmware (Leica SmartWorx) installed

Version:	v1.4
Release Date:	23 Aug 2011
Changes:	Nil
Bug Fixes:	Fix distance measuring problem when measuring to mesh, etc Fix data file selection when no memory card installed
Known Issues:	This version will ONLY run on instruments that have at least version 3.5 of the firmware (Leica SmartWorx) installed

Version:	v1.3
Release Date:	13 Apr 2011
Changes:	Nil
Bug Fixes:	Fix Meas/Input Point not being stored in correct data file in some instances

Version:	v1.2
Release Date:	08 Mar 2011
Changes:	Add ability to save automatic setout points to a Log file
Bug Fixes:	Minor auto setout speed improvements

Version:	v1.1
Release Date:	24 Dec 2010
Changes:	Nil
Bug Fixes:	Various fixes to improve performance Various minor fixes to program operation & configuration

Version:	v1.0
Release Date:	08 Dec 2010
Changes:	Initial release
Bug Fixes:	Nil