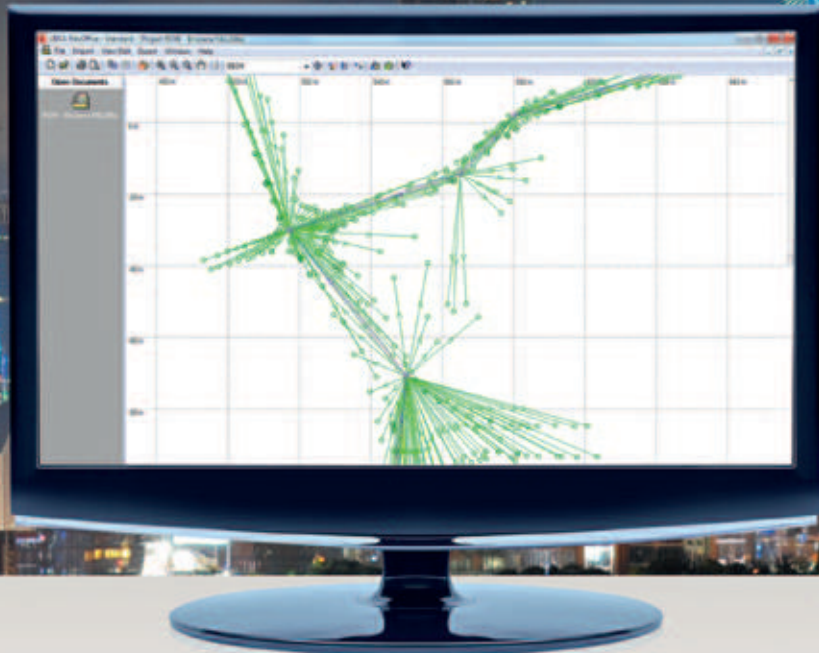














# Leica FlexField plus & Leica FlexOffice A Perfect Match














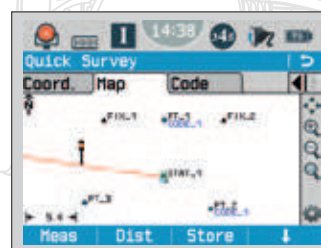
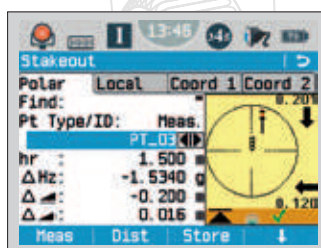
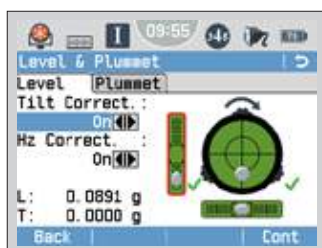
- when it has to be **right**

**Leica**  
Geosystems

# FlexField plus Onboard Software

	General	Description	TS02 plus	TS06 plus	TS09 plus
	File Management	Manage jobs, fixpoints, measurements, codes and formats in the internal memory or on the USB stick.	✓	✓	✓
	Data Import	GSI, DXF, LandXML, ASCII, CSV	✓	✓	✓
	Data Export	GSI, DXF, LandXML, user defined ASCII, CSV	✓	✓	✓
	Status icon bar	See the full instrument status at all times.	✓	✓	✓
	Instrument Protection with PIN	Protect the instrument by entering a Personal Identification Number.	✓	✓	✓
	Stake Out beep	To enhance stake out efficiency, the beep becomes faster the closer you move to the point to be staked out.	✓	✓	✓
	Map Select	To select fixpoints, measurements or stations from a map	-	-	✓
	<b>Programs</b>	<b>Description</b>			
	TPS Setup	Various station setup methods - Set Orientation, Known Backsight, Multiple Backsights, Resection, Helmert Resection, Local Resection, Height Transfer.	✓	✓	✓
	Survey	Measuring an unlimited number of points including Coding and QuickCoding with up to 8 attributes. Codes can be selected from predefined list, or manually entered.	✓	✓	✓
	Map view	To view data in Q-Survey and Survey in a graphical map.	-	✓	✓
	Offset	Calculation of target point coordinates if it is not possible to set up the reflector, or to aim at the target point directly.	✓	✓	✓
	Stake Out	Staking of points with graphical navigation from total station.	✓	✓	✓
	Tie Distance	Calculation of slope distance, horizontal distance, height difference, grade and bearing between two target points.	✓	✓	✓
	Area & Volume	Measuring and calculation of plan areas, surface areas and DTM-Volumes with graphical view.	✓	✓	✓
	Remote Height	Calculation of the position of an inaccessible point by measuring to a base point and then aiming at the remote point.	✓	✓	✓

	Programs	Description	TS02 plus	TS06 plus	TS09 plus
	Hidden Point	Measuring points which are not directly visible, using a special hidden point rod.	✓	✓	✓
	Check Tie	Calculation of slope distance, horizontal distance, height difference, grade, bearing and coordinate difference between the last two measured points.	✓	✓	✓
	Backsight Check	Check if the station position is still correct by re-measuring control points with graphical navigation from total station.	✓	✓	✓
	Reference Line	Defining lines and checking points relative to the line with graphical view. Staking points, line segmentations and grids with graphical navigation from total station.	✓	✓	✓
	Reference Arc	Defining arcs and checking points relative to the arc with graphical view. Staking points, arcs, chords and angles with graphical navigation.	○	✓	✓
	Reference Plane	Defining planes and measuring points relative to the plane. Staking the calculated intersection point with graphical navigation from total station.	○	✓	✓
	COGO	Various methods for calculation of coordinate geometry with graphical view of computed results - Inverse, Traverse (distance & bearing), Intersections, Set Point, Offset Plane, Line Extension.	○	✓	✓
	Road 2D	Defining straights, curves, spirals and checking points relative to the defined element with graphical view. Staking points with graphical navigation from total station.	○	✓	✓
	Road 3D	Upload or manual creation of horizontal and vertical alignments. Checking and staking points and slopes relative to the alignments.	-	○	✓
	Traverse	Measure, compute and adjust traverses including survey observations.	-	○	✓
	Mining	Carrying out a Peg Survey, setting Line Pegs, setting out Grade lines and performing pickups underground by the Offset method.	○	○	○














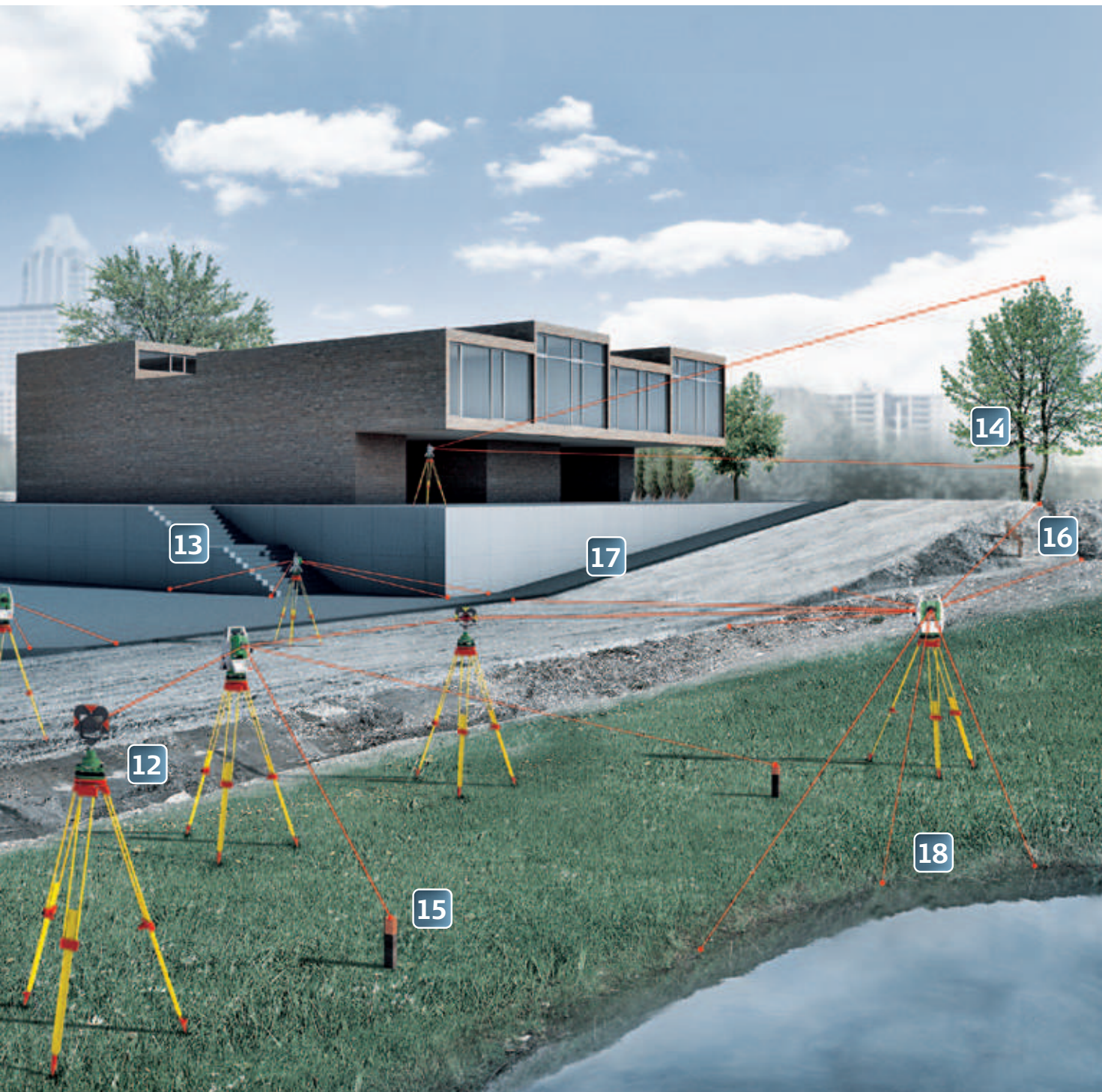
# FlexField plus

## An Application for every Task



- |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1                                                                                   | 2                                                                                   | 3                                                                                   | 4                                                                                   | 5                                                                                   | 6                                                                                   | 7                                                                                     | 8                                                                                     | 9                                                                                     |
|  |  |  |  |  |  |  |  |  |
| Setup & Surveying                                                                   | Height Transfer                                                                     | Area & Volume Calculation                                                           | Reference Line                                                                      | Backsight Check                                                                     | Offset                                                                              | Hidden Point                                                                          | Tie Distance                                                                          | Reference Grid                                                                        |





10



Reference  
Plane

11



Reference  
Arc

12



Traverse

13



COGO

14



Remote  
Height

15



Stake Out

16



Road 3D

17



Road 2D

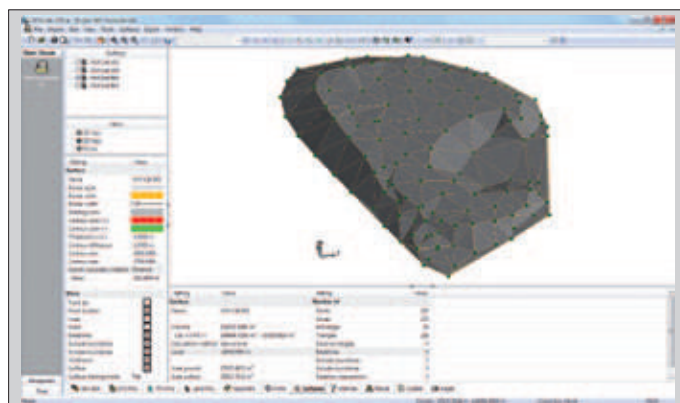
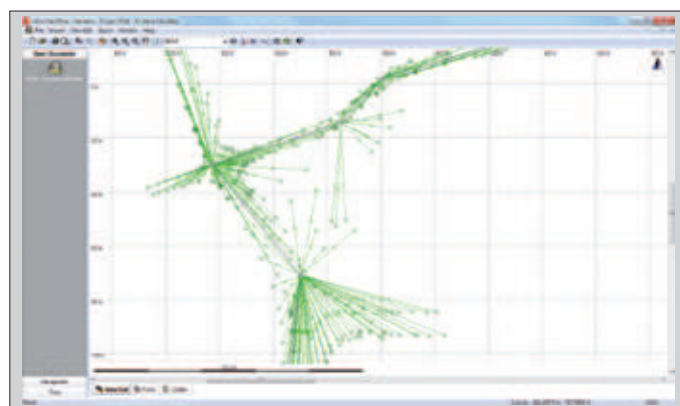
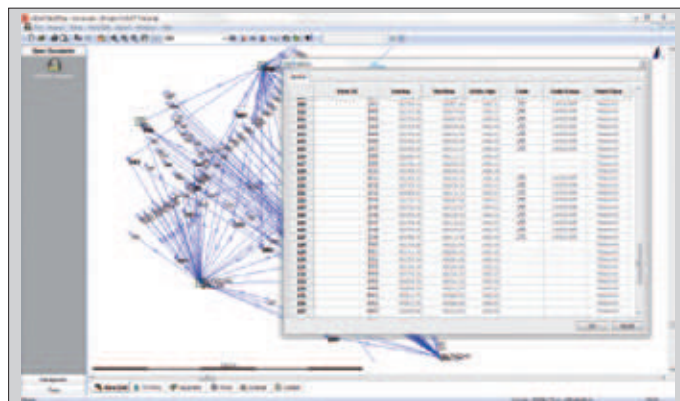
18



Survey

# FlexOffice Software

General components	Description	Standard	Advanced
Data and Project Management	Fast, powerful database automatically manages all points and measurements within projects to ensure data integrity is always maintained. Includes management for projects, codelists and instrument configurations.	✓	✓
Raw Data Import	Import LandXML raw data from FlexLine instruments.	✓	✓
ASCII Import & Export	Import coordinate lists as user-defined ASCII files using the import wizard. Export results in any format to any software using the ASCII export function.	✓	✓
View & Edit	Various graphical displays for visualizing data and giving an instant overview of the data contained within a project. Full editing functionality is provided to perform instant quality checks before processing or exporting data.	✓	✓
Codelist Manager	Generation of codelists with codes and attributes. Management of codelists for FlexLine instruments.	✓	✓
Tools	Powerful and easy-to-use tools are included to seamlessly and easily transfer and export data.	✓	✓
<b>Advanced processing options</b>			
COGO	Computation of coordinates of points using inverse, traverse, intersection, line and arc calculations and area divisions. Select points graphically and create HTML-based reports.	-	✓
TPS data processing	Re-calculate TPS setups to update station coordinates and orientations. Define setups and traverses and process with preferred parameters. Define and re-calculate Sets of Angles. Display all results in HTML-based reports.	-	✓
<b>Optional components</b>			
Design & Adjustment 3D	Combination of all measurements in a least-squares network adjustment to obtain the best possible set of consistent coordinates and to check that the measurements fit with the known coordinates. Outlier detection and extensive statistical testing.	-	○
GIS / CAD Export	Export to GIS / CAD systems such as AutoCAD (DXF / DWG), Micro-Station	-	○
Surfaces & Volumes	Assign measured points of surfaces and calculate Digital Terrain Models. Automatic boundary creation or manual definition. Introducing break-lines will automatically update the model. Visualize the surface in a 2D or 3D view. Calculation of volumes above reference heights or between surfaces.	-	○
<b>System</b>	<b>Description</b>		
Requirements	512 MB RAM or more Microsoft® Windows™ 7, XP or Vista	✓	✓



Whether you want to survey a parcel of land or objects on a construction site, determine measured points on facades or in rooms, gather the coordinates of a bridge or a tunnel – Leica Geosystems' total stations provide the right solution for every application. They unite reliable results with easy operation and user-friendly applications. Our total stations are designed to meet your specific requirements. Modern technology enables you to work fast and productively, thanks to the straightforward and clearly structured range of functions.

**- when it has to be right.**



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Cover picture: Shanghai Pudong skyline

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**FlexLine  
TS02plus**  
Brochure



**FlexLine  
TS06plus**  
Brochure



**FlexLine  
TS09plus**  
Brochure



**Viva TS11**  
Brochure



**Original  
Accessories**  
Brochure

Please visit [www.leica-geosystems.com](http://www.leica-geosystems.com) for detailed information about Leica FlexLine plus and more documents.