TOPCON

TOPSURV

CONTROLLER SOFTWARE

Topcon Controller Software; TopSURV

Topcon's TopSURV field controller software brings the latest advancements to the field of modern data collection. Bright, clear graphics and a straight forward, intuitive user interface will allow the surveyor and contractor to accomplish field tasks faster and easier than ever before.

Topcon TopSURV

One software package for all instruments, seamless data transfer between total station, GPS systems and the office.

TopSURV is Topcon's field collector software solution for the surveyor. TopSURV is a modular integrated field controller package with total station data logging and Solo-Survey total station control, and controller software for Topcon GPS systems. An Additional Advanced Roads module, mmGPS module and GIS module for GPS data collection is available. Providing a seamless integration among Topcon surveying systems.

Modular Software

TopSURV is available in six different modules, which can be used separately or combined.

The TopSURV Total Station module includes all functions of the total station software offering full graphical functionality for data collection, control work, calculations and stakeout.

TopSURV Robotic Total Station module brings the power of the instrument to the prism position. Via remote control or radio, all field survey functions are available at the pole.

The TopSURV GPS module includes all the functions to get the most out of Topcon's GPS systems. Base set-up, GPS status including satellite sky plots and position details, RTK data collection, graphical stakeout, post-processing and multiple base detection.

TopSURV Advanced Roads module creates, edits and displays horizontal and vertical alignments combined with placed template information graphically on the screen. Stakeout points on a road, on either side of it, stakeout cross sections or transition points. All are possible with TopSURV's Advanced Roads module.

TopSURV GIS (DGPS) module lets you map any type of feature you encounter quickly and accurately. The real-time differential correction signals (DGPS) collected will ensure that the position you see on the data collector display reflects your actual location, plus or minus 1 meter. This makes navigating and relocating features a fast and simple process.

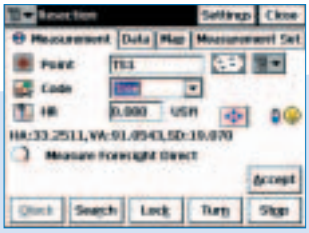
With Topcon's unique LazerZone technology added to a Topcon GPS+ System, instantly, elevation accuracy is increased from centimeter, to millimeter level!
TopSURV mmGPS module opens this technology to be used in the user-friendly TopSURV GPS module environment.

Menus and screens

All TopSURV menus and screens have been designed with the operator in mind. All important field operations and features are easy and quick to reach via straightforward pull-down menus and direct icon-links.

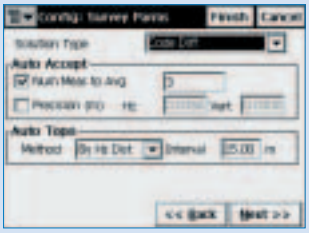
Graphical Data Collection and Stakeout

TopSURV uses coloured graphic displays in data collection and stakeout. Different symbols, colours and line-styles can be chosen for point and line display. The survey progress is displayed and can be zoomed in or out, depending on the operators' demand. Graphical arrow and bulls-eye, leads the operator to the desired stakeout point. Easy to stop and start staking, or move to the next point!



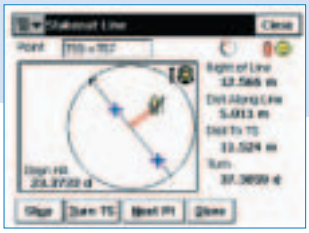
Data Collection Access

All raw data is in TopSURV visible to the operator along with simple entry fields for point ID, attribute code, and pole height. With one-touch access to Data-, Map- and Offset-screens makes data collection possible in every desirable way.



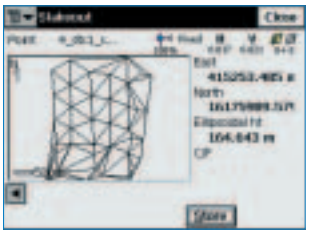
Automated Data Collection

For Total Station and GPS applications, TopSURV's Auto-Topo function is automated data collection in it's highest form; data logging by time or distance. Data is collected while you move!



Reference Line

TopSURV has a clear indication of the operator's location with respect to the reference line. Reference text and graphics are all in one easy to view screen and the design elevation relationship is also provided.

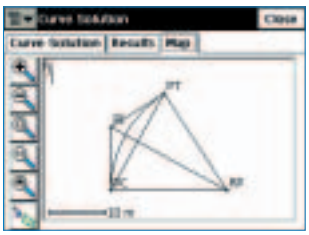


DTM Stakeout

TopSURV's DTM-Stakeout features stakeout using digital terrain models. DXF and DWG files with 3D faces are directly imported. DTM Stakeout gives the operator a great tool in staking out the design model!

GPS status

When using TopSURV for GPS+ systems, satellite status continuously shows the current accuracy based on the actual satellite geometry and conditions as well as sky plots of the actual satellite positions. GPS and GLONASS indicators display the number of satellites in view and the radio- and mmGPS-signal-indicator informs the operator about signal reception and strength.



COGO

TopSURV has build in different COGO-functions. COGO Point to Point calculates inverses, point in directions, intersections and more. COGO's Curve Solutions calculates curves out of points, radiuses and tangents. Rotation, translation and scale are performed by COGO Transformations. All geodetic tools are available to get the job done in the field!

Topcon Field Computers; FC-100 and FC-2000

Compact, ultra bright, sealed and sturdy field computers. The demands of modern field data collection and control have changed dramatically over the past few years and the technology shows no signs of slowing down. The new Topcon field computers are designed to meet these high-technology demands, as well as the performance in tough outdoor circumstances.

The Topcon field computers have the Windows CE operating system build in, on a bright, colour touchscreen display that makes the field data clear to view and easy to access. The removable Li-Ion battery pack provides up to 20 hours of operation and with the optional Bluetooth wireless connectivity, Topcon field computers connect to modern wireless capable systems.

Windows CE

Windows CE operating systems include all Microsoft features as Microsoft Wordpad, Microsoft Explorer, Microsoft Media Player and Internet Explorer.
Windows CE makes digital manuals directly accessible and job reports filled in on the spot. Taking the office in the field!

Internet

With the Topcon field computers direct access to Internet via Internet Explorer can be achieved by connecting to your cell phone. All desirable sites are just a click away!
E-mail jobs from the field; no more data-transfer at the end of the day! Get the latest mutations, on-line information or direct access to the office-server on the spot! How flexible can you be?

FC-100

- Full-colour portrait 320x240 QVGA touchscreen display
- High-speed 400MHz processor
- 128-MB internal memory
- 10 key keyboard with smart keyboard technology
- Windows CE.NET 4.2 operating system

FC-2000

- Full-colour landscape 320x240 QVGA touchscreen display
- 56 key keyboard with separate alpha and numeric buttons
- 400 MHz processor
- 128-MB internal memory
- Windows CE.NET 4.2 operating system

Perfect combination

The advanced features of Topcon's TopSURV field collector software are seen at their best when used with Topcon data controllers. Bright graphics and a straight forward, intuitive user interface allow the surveyor to accomplish field tasks faster and easier than ever before. Making it surveyors' and contractors' perfect combination!

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