

# Survey Pro Software Functions

- Survey Standard
- ▲ Survey Pro
- ◆ Survey Pro Robotics
- Survey Pro GNSS
- ★ Survey Pro Max

## TITLE BAR/TASK BAR/MENU

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| Toggle collection mode (total station/ GNSS) | ● | ▲ | ◆ | ■ | ★ |
| Battery status indicator                     | ● | ▲ | ◆ | ■ | ★ |
| Map access button                            | ● | ▲ | ◆ | ■ | ★ |
| Editable quick picks                         | ● | ▲ | ◆ | ■ | ★ |
| Home screen                                  | ● | ▲ | ◆ | ■ | ★ |
| Build your own custom menu                   | ● | ▲ | ◆ | ■ | ★ |

## FILE

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| Import/export   | ● | ▲ | ◆ | ■ | ★ |
| JOB, RAW <sup>1</sup> , TXT, CSV, LandXML, JobXML, CRS5 | ● | ▲ | ◆ | ■ | ★ |
| Import Control  | ● | ▲ | ◆ | ■ | ★ |
| Backup/Restore  | ● | ▲ | ◆ | ■ | ★ |

## JOB

|                           |   |   |   |   |   |
|---------------------------|---|---|---|---|---|
| Edit points/polylines     | ● | ▲ | ◆ | ■ | ★ |
| Edit alignments           | ▲ | ◆ | ■ | ★ |   |
| Auto linework (real time) | ▲ | ◆ | ■ | ★ |   |
| View/edit raw data        | ● | ▲ | ◆ | ■ | ★ |
| View DTM                  | ● | ▲ | ◆ | ■ | ★ |
| Manage layers             | ● | ▲ | ◆ | ■ | ★ |
| Calculator                | ● | ▲ | ◆ | ■ | ★ |
| AU Conversions            | ● | ▲ | ◆ | ■ | ★ |

## SURVEY (CONVENTIONAL MODE)

|                           |   |   |   |   |   |
|---------------------------|---|---|---|---|---|
| Backsight setup           | ● | ▲ | ◆ | ■ | ★ |
| Traverse/sideshot         | ● | ▲ | ◆ | ■ | ★ |
| Quick shot <sup>4</sup>   | ● | ▲ | ◆ | ■ | ★ |
| Repetition shots          | ● | ▲ | ◆ | ■ | ★ |
| Multiple sideshots        | ● | ▲ | ◆ | ■ | ★ |
| Distance/angle offset     | ● | ▲ | ◆ | ■ | ★ |
| Corner & 2 lines          | ● | ▲ | ◆ | ■ | ★ |
| Corner & angle            | ● | ▲ | ◆ | ■ | ★ |
| Corner & offset           | ● | ▲ | ◆ | ■ | ★ |
| Corner & plane            | ● | ▲ | ◆ | ■ | ★ |
| Shoot from 2 ends         | ● | ▲ | ◆ | ■ | ★ |
| Resection                 | ● | ▲ | ◆ | ■ | ★ |
| Remote elevation          | ● | ▲ | ◆ | ■ | ★ |
| Check point               | ● | ▲ | ◆ | ■ | ★ |
| Bluetooth support (Recon) | ● | ▲ | ◆ | ■ | ★ |
| Solar observation         | ▲ | ◆ | ■ | ★ |   |
| Remote control            | ◆ | ■ | ★ |   |   |
| Fine turning              | ◆ | ■ | ★ |   |   |
| Tap to turn               | ◆ | ■ | ★ |   |   |
| Surface Scan <sup>2</sup> | ▲ | ◆ | ■ | ★ |   |

**SURVEY STANDARD™** is a complete data collection package for surveyors. It contains a complete COGO suite as well as traverse, sideshot and staking routines.

**SURVEY PRO** shares all Survey Standard functions and adds advanced road layout routines, advanced staking routines, attribute collection, DTM routines and much more.

## STAKEOUT

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| Quick stake <sup>4</sup>                        | ● | ▲ | ◆ | ■ | ★ |
| Cut/fill to design grade                        | ● | ▲ | ◆ | ■ | ★ |
| Generate cut sheet data                         | ● | ▲ | ◆ | ■ | ★ |
| Turn instrument to stake with 2-D and 3-D modes |   |   | ◆ | ■ | ★ |
| Remote stake from rod                           |   |   | ◆ | ■ | ★ |
| Stake points/list of points                     | ● | ▲ | ◆ | ■ | ★ |
| Stake to line/polyline                          | ● | ▲ | ◆ | ■ | ★ |
| Offset staking                                  | ▲ | ◆ | ■ | ★ |   |
| Slope staking from line or point                | ▲ | ◆ | ■ | ★ |   |
| Stake to line and offset                        | ● | ▲ | ◆ | ■ | ★ |
| Stake to curve and offset                       | ● | ▲ | ◆ | ■ | ★ |
| Stake to spiral and offset                      | ● | ▲ | ◆ | ■ | ★ |
| Stake DTM                                       | ▲ | ◆ | ■ | ★ |   |
| Define a location                               | ● | ▲ | ◆ | ■ | ★ |
| Where is next point                             | ● | ▲ | ◆ | ■ | ★ |
| Slope stake from a point                        | ▲ | ◆ | ■ | ★ |   |
| Station staking                                 | ▲ | ◆ | ■ | ★ |   |

## INVERSE

|                |   |   |   |   |   |
|----------------|---|---|---|---|---|
| Multiple types | ● | ▲ | ◆ | ■ | ★ |
|----------------|---|---|---|---|---|

## COGO

|                     |   |   |   |   |   |
|---------------------|---|---|---|---|---|
| Point in direction  | ● | ▲ | ◆ | ■ | ★ |
| Intersection        | ● | ▲ | ◆ | ■ | ★ |
| Offset line/points  | ● | ▲ | ◆ | ■ | ★ |
| Corner angle        | ● | ▲ | ◆ | ■ | ★ |
| Compute area        | ● | ▲ | ◆ | ■ | ★ |
| Triangle solutions  | ● | ▲ | ◆ | ■ | ★ |
| Map check           | ● | ▲ | ◆ | ■ | ★ |
| Predetermined area  | ● | ▲ | ◆ | ■ | ★ |
| HD/VD to/from SD/ZA | ● | ▲ | ◆ | ■ | ★ |
| Station & offset    | ▲ | ◆ | ■ | ★ |   |

## CURVE

|                        |   |   |   |   |   |
|------------------------|---|---|---|---|---|
| Curve solution         | ● | ▲ | ◆ | ■ | ★ |
| PI and tangents        | ▲ | ◆ | ■ | ★ |   |
| 3-point curve          | ▲ | ◆ | ■ | ★ |   |
| Radius point           | ● | ▲ | ◆ | ■ | ★ |
| Tangent to circles     | ▲ | ◆ | ■ | ★ |   |
| Curve layout           | ● | ▲ | ◆ | ■ | ★ |
| Traverse on a curve    | ● | ▲ | ◆ | ■ | ★ |
| Parabolic curve/layout | ● | ▲ | ◆ | ■ | ★ |
| Straight grade         | ● | ▲ | ◆ | ■ | ★ |
| Spiral/spiral layout   | ▲ | ◆ | ■ | ★ |   |
| Traverse on a spiral   | ▲ | ◆ | ■ | ★ |   |

## ROADS

|  |   |   |   |   |  |
|--|---|---|---|---|--|
| Create/edit templates (cross-sections) | ▲ | ◆ | ■ | ★ |  |
| Create/edit alignments                 | ▲ | ◆ | ■ | ★ |  |
| Save alignment to file                 | ▲ | ◆ | ■ | ★ |  |
| Add super elevations to road           | ▲ | ◆ | ■ | ★ |  |
| Add widenings to road                  | ▲ | ◆ | ■ | ★ |  |
| Road stakeout                          | ▲ | ◆ | ■ | ★ |  |
| Import LandXML Roads                   | ▲ | ◆ | ■ | ★ |  |

**SURVEY PRO GNSS** shares nearly all the Survey Pro functions, and it provides the capability to collect data from RTK GPS/GNSS receivers at centimeter-level accuracy. The GNSS software is easy to use, reduces training and simplifies setups. It provides meaningful error messages if anything goes wrong. All staking functions are supported when using GNSS receivers.

## ADJUST

|                        |   |   |   |   |   |
|------------------------|---|---|---|---|---|
| Scale/translate/rotate | ● | ▲ | ◆ | ■ | ★ |
| Traverse adjust        | ● | ▲ | ◆ | ■ | ★ |

## MAP VIEWS

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| Active Background maps                     |   |   |   |   |   |
| DXF Layers                                 | ● | ▲ | ◆ | ■ | ★ |
| DXF Colors                                 | ● | ▲ | ◆ | ■ | ★ |
| Select objects for survey operations       | ● | ▲ | ◆ | ■ | ★ |
| Active Survey Map                          |   |   |   |   |   |
| Collect points                             | ● | ▲ | ◆ | ■ | ★ |
| Manage linework                            | ● | ▲ | ◆ | ■ | ★ |
| Inverse point to point or line or location | ● | ▲ | ◆ | ■ | ★ |
| Create Point                               | ● | ▲ | ◆ | ■ | ★ |
| Stake to point or location                 | ● | ▲ | ◆ | ■ | ★ |
| Show past results                          | ● | ▲ | ◆ | ■ | ★ |
| Survey Setup display                       |   |   |   |   |   |
| Occupy point                               | ● | ▲ | ◆ | ■ | ★ |
| Backsight point                            | ● | ▲ | ◆ | ■ | ★ |
| Base location                              | ● | ▲ | ◆ | ■ | ★ |
| Rover location                             | ● | ▲ | ◆ | ■ | ★ |
| Rod location                               | ● | ▲ | ◆ | ■ | ★ |

## SURVEY (GNSS MODE)

|                                    |   |   |  |  |  |
|------------------------------------|---|---|--|--|--|
| Cell phone/radio modem settings    | ■ | ★ |  |  |  |
| GPS/GNSS status                    | ■ | ★ |  |  |  |
| Network connection manager         | ■ | ★ |  |  |  |
| Base/rover setup (Smart Setup)     | ■ | ★ |  |  |  |
| Control points                     | ■ | ★ |  |  |  |
| Collect point, features, offset    | ■ | ★ |  |  |  |
| Projection setup/statistics        | ■ | ★ |  |  |  |
| Remote elevation                   | ■ | ★ |  |  |  |
| Projection Calculator              | ■ | ★ |  |  |  |
| Receiver file manager <sup>3</sup> | ■ | ★ |  |  |  |

## SETTINGS (GNSS MODE)

|  |   |   |  |  |  |
|--|---|---|--|--|--|
| Post process   | ■ | ★ |  |  |  |
| Map Projection or Calibration (local transformation) modes | ■ | ★ |  |  |  |
| Adjust with projection and control update                  | ■ | ★ |  |  |  |
| All stakeout functions with GPS receiver                   | ■ | ★ |  |  |  |

Please note: This chart is an abbreviated general guide to software functions. All specifications are subject to change without notice.

1. Export Only.
2. Requires motorized instrument.
3. For Spectra Precision and Trimble receivers.
4. Only available on the Nivo C, FOCUS 8 and FOCUS 30.

**SURVEY PRO ROBOTICS** shares all Survey Pro functions, works with all major brands of robotic total stations, and adds graphical staking screens.

**SURVEY PRO MAX™** is the ultimate field software. It integrates Survey Pro Robotics and Survey Pro GNSS functions, enabling you to use the same job files with both GPS/GNSS receivers and total stations.

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Please visit [www.spectraprecision.com](http://www.spectraprecision.com) for the latest product information and to locate your nearest distributor. Specifications and descriptions are subject to change without notice.

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