



Switch on and measure!
The on site measuring equipment for everyone.





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X-PAD Construction is the ideal solution for use, in an efficient and productive way, the measuring equipment in all construction activities. X-PAD Construction, combined with the total station or GPS, allows you to perform the measurement, stakeout and control with simple and functional procedures. With X-PAD, construction company can solve all measuring situations in site in autonomous and independent way, by improving the productivity and reducing costs.

General

- Simple and intuitive user interface;
- High readability of text and commands;
- Operative via touch screen or physical keyboard;
- Direct switching from TPS mode to GPS mode and vice versa;
- Two modes of operation allow any type of operator present at the site to use the software and instrumentation.

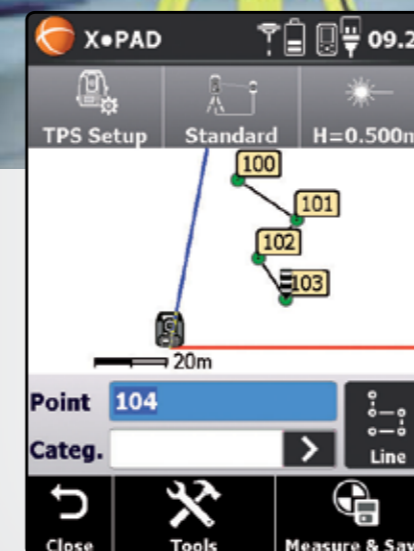


Orientation and coordinate system

- Total station orientation on reference line;
- Total station orientation on known points (free station);
- Station elevation from reference point;
- GPS local coordinate system on reference line;
- GPS local coordinate system on reference points (site calibration);
- Load of already define coordinate system for immediate use of GPS;
- Fast setup of coordinate system to site requirements.

Robotic total station

- One-man mode for every operation: survey, stakeout and checking;
- Prism search and locking;
- Continuous tracking;
- Manual commands for full control of total station.

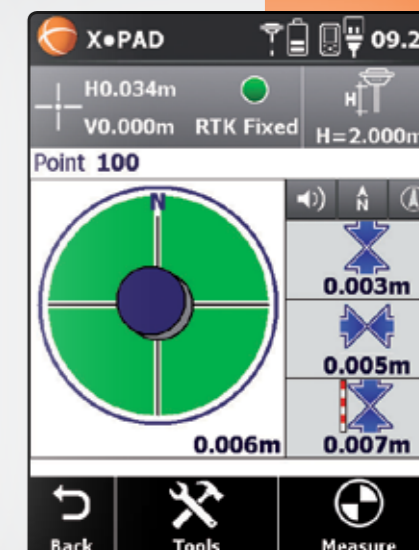
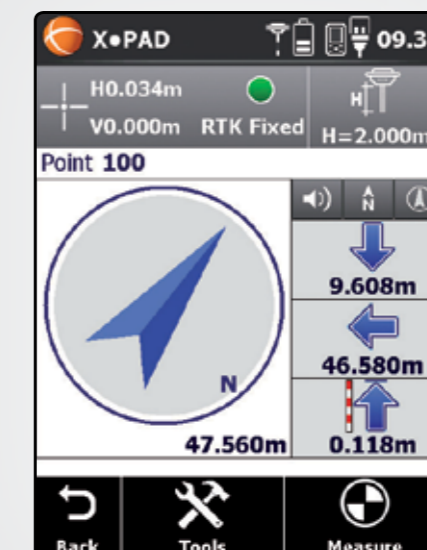


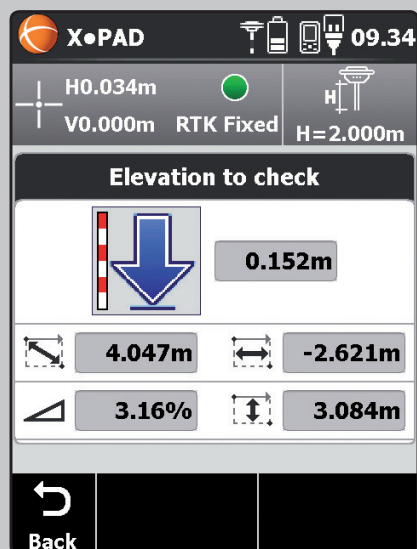
Survey

- Measuring of points with code descriptor assignment;
- Automatic drawing during survey;
- Automatic survey of points;
- Real time visualization of survey and drawing;
- Measurement of not accessible points.

Stakeout

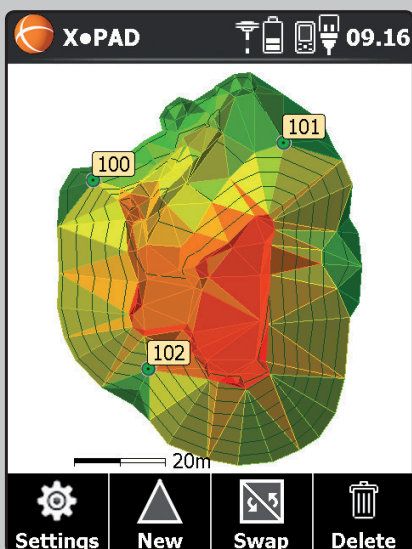
- Stakeout of points and drawing coordinates;
- Creation and management of list of points to stakeout;
- Stakeout of lines, arcs and drawing elements even by offset;
- Stakeout of sideslopes;
- Stakeout on vertical facades;
- Voice guidance;
- Orientation to North or Sun (GPS);
- Speed, ease of use and clarity of navigation;
- Creation of stakeout final report.





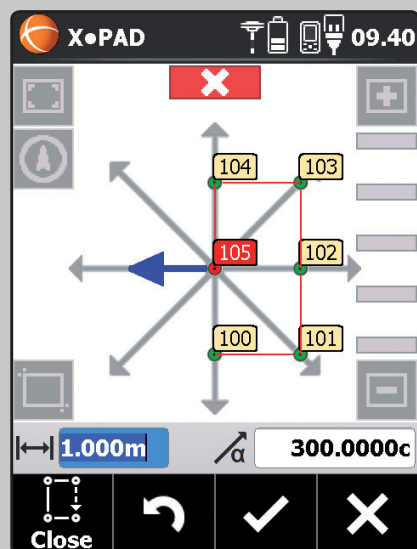
Checking

- Check of elevations on horizontal and sloped levels;
- Check of distances between points and elements;
- Check of angles;
- Calculation of surfaces and perimeters;
- Continuous check of the quality of work and the progress.



Volumes

- Creation of 3D surfaces in automatic and manual way;
- Calculation of horizontal and sloped area;
- Display of surfaces with shading and contour lines;
- Management of more surfaces on the same job;
- Volume calculation on reference elevation or on a reference level;
- Volume calculation of stockpile or pit;
- Management of all volume calculation results.



Cad

- Import/Export of DXF/LandXML files;
- Drawing of lines, arcs, circles, polylines, points;
- Layout for fast creation of design points;
- Snap to object in drawing operations;
- COGO commands: offset, divide, measure, chain and offset, intersection, ecc. ;
- Calculation of distances, surfaces, ecc. ;
- Autohide zoom buttons to offer maximum drawing surface.

MODULARITY

TPS

Full support of total station.

GPS

Full support of GPS receiver.

VOLUMES

Calculation of surfaces and volumes.

ROBOTIC

Additional module to TPS for full control of robotic total stations.



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