

Smart Survey, Work With Ease

300m Search and Track: Stable and Smooth

RTS1 is able to actively search for a prism in 300m, and follow prism's movement constantly. The range is Horizontally 360°, Vertically $\pm 18^\circ$. So when the prism-man has moved to a new target point, there is no need to re-aim and reset from the total station. It ensures the continuity of the measurement work and decrease the down time.



1200m Prism Recognition: Accurate and Easy

RTS1 is able to recognize prism within 1200m line of sight, operators don't need to frequently adjust instrument by their hands. It improves the efficiency and make the work easier.



Advanced Hardware: Superb Experience

4+64GB Memory & LTE Support

Data file storing and sharing is convenient.

Zigbee or Long-range BT

Provide a stable connection between total station and data logger in maximum 600m range.



5.5 Inches touch screen

With 13 shortcut keys enables intuitive viewing of measurement results and quick function execution, eliminating menu-based searching and boosting work efficiency.



Multiple Data Logger Options

Supports various external devices like tablets, smartphones, and controllers. Choose suitable device combinations and working modes based on different measurement tasks and scenarios.



More Innovation, More Possibility

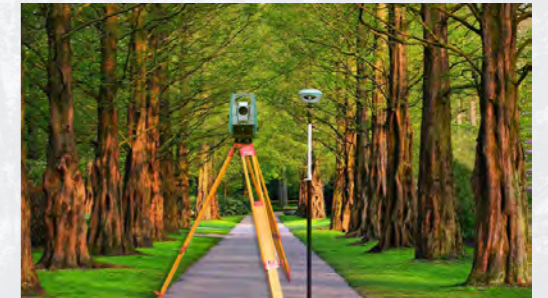
One-man Survey: More Intelligence, More Creativity

Traditional Mode (without RTK)

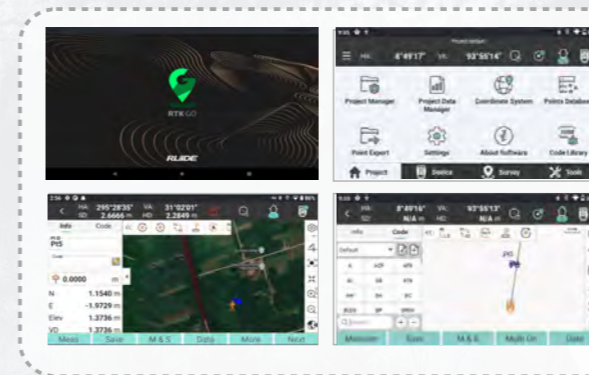
Under Traditional mode, RTS1 is able to achieve functions like Prism Search, APR, and LocknTRack. Also Long-range data link offers a flexible and agile remote control for One Person Survey system.

Prism Plus Position Mode (with RTK)

Now RTS1 is allowing surveyors to combine their GNSS RTK into total station measurement, by installing RTK receiver above the prism. When the prism is temporarily getting out of the line-of-sight, RTS1 can use RTK positioning data to find the prism. Once the prism is moving out from the obstacle, total station can re-sight at it immediately. It saves a lot of time of prism re-searching.



Onboard APP RTK



RTK-GO 2026

Previously, RTK-GO can be used with RUIDE GNSS receiver, manual total station, now it comes to Robotic Total Stations.

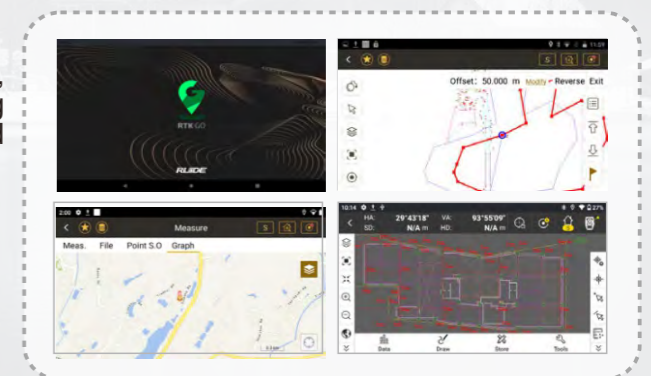
Graphical and iconic guidance - helps you collect data and conduct staking out efficiently.

Map-driven workflow - provides you intuitive guidance and real-time feedback.

RTK-GO 2026

High performance CAD - We can survey, stakeout, draw and edit CAD seamless switching between Survey and CAD modules. Also optimized algorithm makes RTK -GO load big size CAD files faster.

Code Library Survey - We can give Code and Graphic features to surveying points, which makes mapping and road survey easier.



In later 2024, a few update have been done: CAD function is available in all of measurement and stakeout program; Point picking on CAD drawing is much more precise; A new user interface is available; User is able to choose portrait display or landscape display according to their work need.

Automated Monitoring

By delivering exceptional angular and distance measurement accuracy, RTS1 enables precise detection of minor displacement changes at monitoring points. The wireless communication function on board allows users to perform remote control and data management at anytime. Automated measuring and data recording also can reduce labor cost and improve accuracy.

