



Alpha Surveying

Alpha **Ti**

High-precision Total Station

1.5" angular accuracy | Up to 1000m without prism | 3.2-inch colour screen | Backlit keys



High-precision Total Station

Originated from European optical technology, Alpha Ti comes out with a brand new hardware structure and new measuring tape, and static absolute encoder. The 1.5" angle measurement accuracy and the 1000m non-prism measuring range enable the Alpha Ti to do various kinds of precision measurements.



Advanced Optical System

Europe optical technology helps effectively suppress chromatic aberration and make clearer observation

BLE 5.0

Low energy enables more ways of measurement

USB Flash Drive

Support data upload and download and update firmware

Processor

Equipped with ARM architecture arm processor to lower energy and improve the stability of the total station.

Lithium-ion Battery

Working time up to 20 hours

Handy Brake Wrench

User never feels tired with the ergonomic design which fits human fingers. Lock and unlock with a gentle press on the wrench.

Touch Measurement

The touch trigger key helps mitigate the impact of jitter on the measurement

Coaxial Laser Plummet

Coaxial laser plummet makes it more convenient to track the targets.



Reliable Measurement

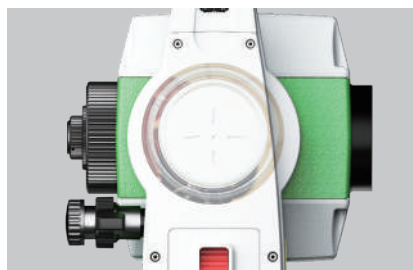
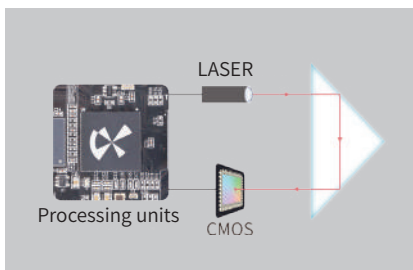
Advanced phase laser rangefinder. Eight adaptive precision measuring tape for accurate distance measurement. Up to 1000m Without Prism

Angle measuring technology

Absolute encoder enables angle measurement accuracy in dusty, humid and other harsh conditions. Starting up without initialization, all information will be kept after power interruption, power off or restart.

Photoelectric Compensator

The brand new Photoelectricity Compensator provides compensator range up to 4', reducing the effect of centering and leveling up, and improving measurement accuracy.



User-friendly High-precision Total Station



Equipped with a full-featured operation panel, 3.2-inch bright colour screen, and buttons with comfortable spacing and without sound. Built-in commonly used measurement functions, standard Bluetooth 5.0 for convenient data transmission, and the third-party application. Alpha Ti is a combination of advanced hardware and software!



3.2-inch Color Screen

Larger screen brings more data display and good viewing experience.



Rounded backlight button

The rounded backlight button makes it easier for measurement work at night.



Customized Fn Function Key

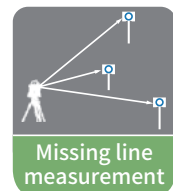
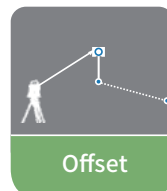
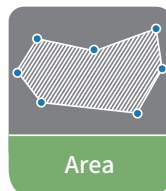
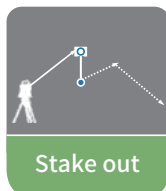
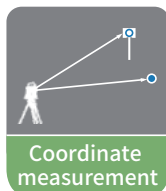
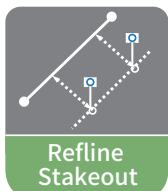
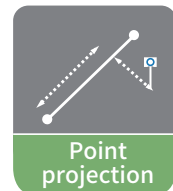
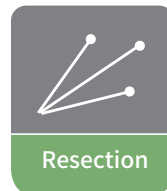
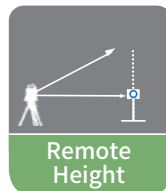
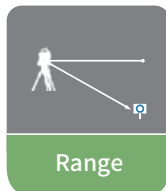
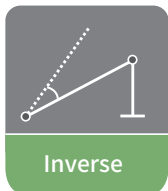
The customized function key for a personalized total station.



One-touch Laser Fixed

One touch, rapid centring and leveling up for measurement.

On-board Measurement Software



Professional set



| | |
|-----------------|----|
| Ts | X1 |
| Battery | X2 |
| Charger | X1 |
| Tool bag | X1 |
| Manual | X1 |
| Warranty Card | X1 |
| Certificate | X1 |
| USB flash drive | X1 |
| RP60 reflector | X1 |
| RP30 reflector | X1 |
| Objective cap | X1 |

Technical Specification

| | | | | |
|-------------------------------|------------------------|---|--|---------------|
| Telescope | Image | Right-reading | | |
| | Magnification | 30x | | |
| | Field Of View | 1°30' | | |
| | Minimum Focus | 1.7m | | |
| | Resolution | 2.8" | | |
| Angle Measurement | Accuracy | 1.5" | | |
| | Reading System | Absolute Encoders | | |
| | Minimum Reading | 1" | | |
| Distance Measurement | Measuring | Non-Prism | 1000m | |
| | | Reflector | 2000m | |
| | | Single Prism | 4000m | |
| | Measuring Accuracy | Non-Prism | $\pm (3\text{mm} + 2 \times 10^{-6} \times D)$ | |
| | | Reflector | $\pm (3\text{mm} + 2 \times 10^{-6} \times D)$ | |
| | | Single Prism | $\pm (2\text{mm} + 2 \times 10^{-6} \times D)$ | |
| | Time | Fine :0.7s | Rapid:0.5s | Tracking:0.3s |
| Minimum Display | Fine/Tracking:0.1mm | | | |
| Compensator | Compensator Type | Dual axis | | |
| | Compensator Range | $\pm 4'$ | | |
| | Compensator Resolution | 1" | | |
| Laser Plummet | Accuracy | 1.5mm@1.5m | | |
| | Wavelength | 635nm | | |
| | Safety | Class2 | | |
| | Output Power | 0.7-1.0nw | | |
| Level Vial Sensitivity | Tubular Level | 30"/2mm | | |
| | Circular Level | 8'/2mm | | |
| Keyboard | Screen | 3.2-inch colour screen | | |
| | Key | x26 | | |
| | Backlight | Support | | |
| Communication | Port | USB、Bluetooth | | |
| | Data Memory | 40000 points | | |
| Power | Battery | 2600mAh Li-ion battery | | |
| | | Low voltage alert | | |
| | Working Time | 25 hours angle 20 hours angle and distance | | |
| Physical | Operating Temperature | -20°C ~ +50°C | | |
| | Storage Temperature | -30°C ~ +55°C | | |
| | Water/Dust Proof | IP54 | | |

*The above technical parameters are for your reference. The company reserves the right to change the design and planning of the product based on the actual product.

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