



PRECISE T3 Lite
Enjoy a
PRECISE,
RELIABLE,
and EASY
experience!

Super-high Fix Rate

99.9%

All You Need for Surveying, All in One.

M MATRIX

Enhanced by
the MATRIX ALGORITHM

Think ***PRECISE!***

WWW.PRECISE-Geo.COM
SALES@precise-geo.com
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PRECISE T3 Lite Total Station

Originated from European optical technology, PRECISE T3 Lite comes out with a brand new hardware structure and new measuring tape, and static absolute encoder. The 2" angle measurement accuracy and the 1000m non-prism measuring range enable PRECISE T3 Lite to do various kinds of precision measurements.



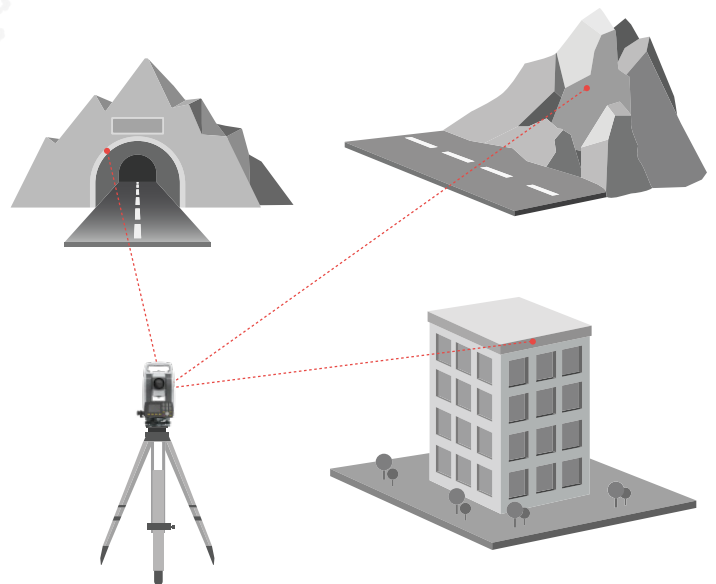
Precision distance measurement technology

PRECISE T3 Lite can achieve fast and accurate distance measurement through built-in eight adaptive high-frequency measuring rulers and advanced phase laser ranging algorithms, meeting the accuracy requirements of various advanced engineering measurements.

1,000_m **4,000_m**

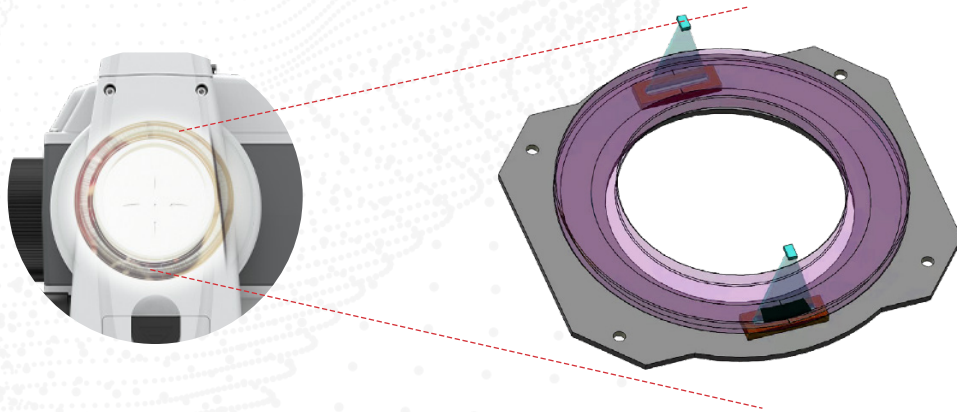
Non-Prism Distance measurement

Single Prism Distance Measurement



Precision Angle Measurement Technology

It adopts a self-developed precision angle sensor architecture, adds a global sub-second high-order error compensation algorithm, and combines sub-pixel resolution photoelectric decoding and nano-level photolithography process absolute encoding code disk to bring stable and reliable angle measurement accuracy.



Coaxial comprehensive compensation

The compensator is located directly above the vertical axis. It can quickly and accurately compensate during rotation. At the same time, CCD is used for precise calibration. The compensation range is up to 4', and the operation efficiency is extremely high.



Special Grade Dense Bead Shaft System

Using customized ultra-high-precision grinder precision processing technology, the carefully selected top-grade G3 steel balls are processed through dozens of processes to create a special-grade dense ball shaft system that can meet the stringent requirements of 1"-level instruments.



Strong Protection

PRECISE T3 Lite's excellent protective performance, powerful precision shafting electronic compensation technology and high redundancy. The angle measurement decoding algorithm allows the total station to be used in various extreme engineering environments, making measurements stable and reliable.



Ease-to-use Interaction



Equipped with a full-featured operation panel, 3.2-inch bright color screen, and mute buttons with comfortable spacing. Built-in commonly used measurement functions, standard Bluetooth 5.0 for convenient data transmission, and the third-party application. PRECISE T3 Lite 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.

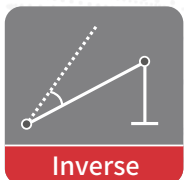
Customized Fn Function Key

The customized function key for a personalized total station.

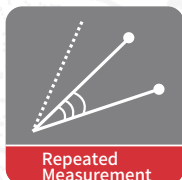
One-touch Laser Fixed

One touch, rapid centring and leveling up for measurement.

On-board Measurement Software



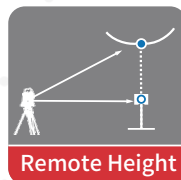
Inverse



Repeated Measurement



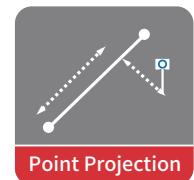
Road Measurement



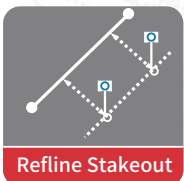
Remote Height



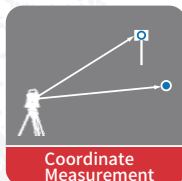
Resection



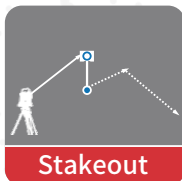
Point Projection



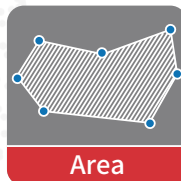
Refline Stakeout



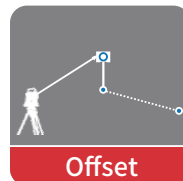
Coordinate Measurement



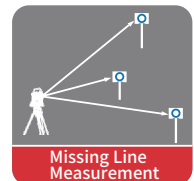
Stakeout



Area



Offset



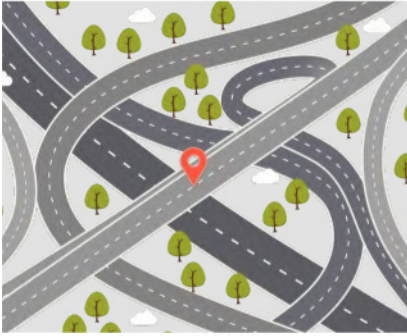
Missing Line Measurement

Compatible with third-party APP

PRECISE T3 Lite supports mobile phone communication via Bluetooth with third parties APP such as DiMap Pro or Surveyor software to realize the function of intelligent total station.



For high-class projects

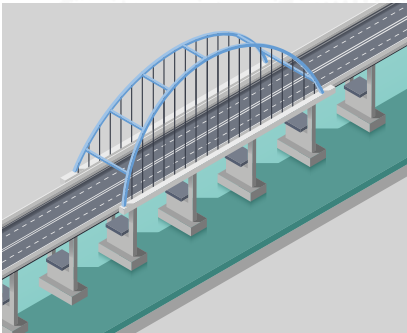


Road

PRECISE T3 Lite has excellent angle measurement accuracy, distance measurement accuracy and compensator accuracy, and is suitable for highways and high-precision rail transit.



Unique coding design and highly fault-tolerant photoelectric decoding technology allow the code disc to accurately measure angles even when 70% of them are blocked, achieving accurate readings without fear of moisture and dust.



Bridge

PRECISE T3 Lite has excellent distance measuring performance. It has fast short-distance measurement speed and high long-distance accuracy. It is suitable for bridge installation and construction.

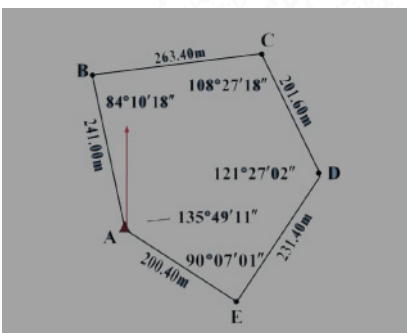


Online power supply and debug.



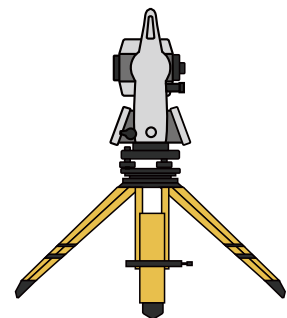
Tunnel

Unique angle measurement technology, no fear of dust and condensation, with laser indicator and keyboard backlight, PRECISE T3 Lite is fully qualified for tunnel measurement.



Traverse Survey

PRECISE T3 Lite has stable angle measurement accuracy and distance measurement accuracy, strong consistency, and is suitable for traverse survey.



Professional Set



Total station	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	2"		
	Reading System	Absolute Encoders		
	Minimum Reading	1"		
Distance Measurement	Measuring	Non-Prism	1000m	
		Reflector	2000m	
		Single Prism	4000m	
	Accuracy	Single Prism	$\pm (2\text{mm}+2 \times 10^{-6} \times D)$	
		Non-Prism	$\pm (3\text{mm}+2 \times 10^{-6} \times D)$	
		Reflector	$\pm (3\text{mm}+2 \times 10^{-6} \times D)$	
	Time	Fine :0.7s	Rapid:0.5s	Tracking:0.3s
Compensator	Minimum Display	Fine/Tracking:0.1mm		
	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		
Power	Battery	Type: 2600mAh Li-ion battery		
		Low voltage alert: Shut down in 10 mins		
	Working Time	Angle Measuring: 25h		
		Distance + Angle Measuring: 20h		
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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