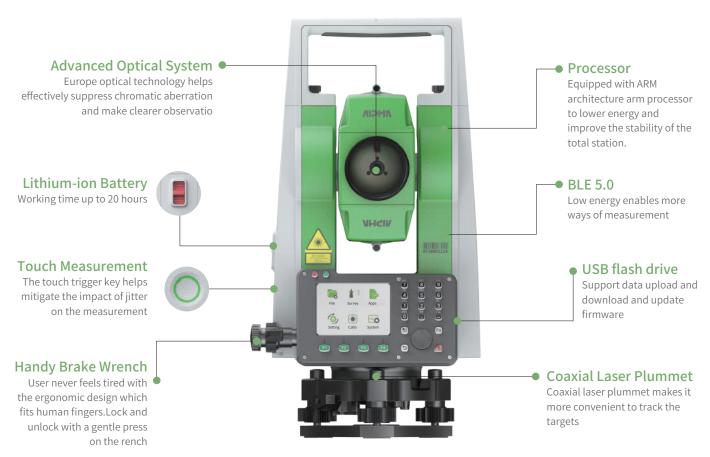


Alpha Tx Alpha Tx 1" Total Station

Alpha Tx Total Station

Alpha Tx 1" High-precision Total Station, boasts high quality and high performance with its outstanding design, advanced encoding technology and stable alloy axis. It has achieved 1"accuracy measurement and is applied to control measurement, industrial measurement, tunnel engineering, and deformation monitoring





High-precision Ranging Technology

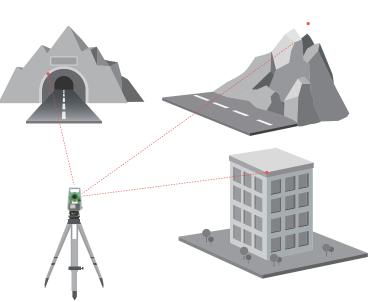
Alpha Tx can achieve fast and accurate ranging through built-in eight adaptive high-frequency measuring rulers and advanced phase laser ranging algorithm, meeting the accuracy requirements of various advanced engineering measurements

1000_m

Without Prism

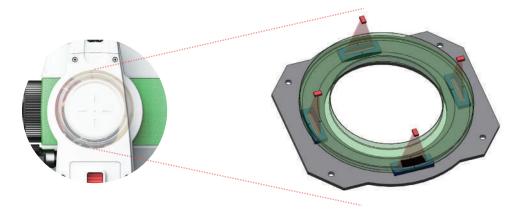
5000_m

With Prism



4CCD for higher angular accuracy

The self-developed four-quadrant precision angle sensor design, error compensation algorithm, combined with photoelectric decoding, top-notch precision photolithographic absolute coding disk, brings stable and reliable accuracy of 1"



Coaxial Comprehensive CompensationFor 1"Accuracy

The compensator is located just above the vertical axis, and the accurate compensation is obtained quickly between rotations. At the same time, the CCD is used for accurate calibration, and the compensation range is as high as 4', high operation efficiency.



Superfine Shafting For 1"Accuracy

The high-quality alloy steel is heat-treated several times being processed with a specially designed ultra-high precision grinder. The G3 top-grade steel balls are selected and ground through dozens of procedures to meet the strict requirements of 1" accuracy instruments.



Strong Protection

Powerful and precise electronic compensation and high redundancy angle measurement algorithm enable the total station to work efficiently and reliably in all kinds of extreme environments.



Package includes



Tx	X1
Battery	Х2
Charger	X1
Tool bag	X1
Manual	X1
Warranty Card	Х1
Certificate	X1
USB flash drive	X1
RP60 reflector	X1
RP30 reflector	X1
Objective cap	Х1

Technical Specification

Telescope	Image	Right-reading		
	Magnification	30x		
	Field Of View	1°30′		
	Minimum Focus	1.7m		
	Resolution	2.8"		
Angle Measurement	Accuracy	1"		
	Reading System	Absolute Encod	ers	
	Minimum Reading 0.2"			
Distance Measurement	Measuring	Non-Prism	1000m	
		Reflector	2000m	
		Single Prism	5000m	
		Non-Prism	$\pm (3 \text{mm} + 2 \times 10^{-6} \times D)$	
	Measuring Accuracy	Reflector	$\pm (3 \text{mm} + 2 \times 10^{-6} \times D)$	
		Single Prism	$\pm (1$ mm + 1 \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 ±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 -		h - + +	
		2600mAh Li-ion		
		Low voltage ale	rt	
	Working Time –	25 hours angle		
		20 6	and distance	
		20 hours angle a	and distance	
	Operating Temp			
Physical		erature -20°C ~	+50°C	

^{*}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

Guangzhou Alpha Surveying Technology Co.,Ltd.

- NO.203 Kezhu Road, Science City Huangpu District, Guangzhou
- www.alpha-surveying.com
- +86-20-82108930