The PTS-121A Total Station is widely used in the engineering field. Equipped with a true color screen, full seal encoding disc, step motor and newly designed optical path, the PTS-121A achieves excellent angle and distance measurement performance.

The PTS-121A Series Total Station consists of a wealth of communication interfaces and smart online calibration software, allowing the PTS-121A's rich data transmission and real-time detection capabilities. <u>Leica Total Station Refill</u>





Features:

Fast and accurate EDM features

A newly designed optional path improves the accuracy and speed of distance measurements.

Anti-reflective 800m/600m.

Fine 0.8 seconds, track measurement 0.3 seconds.

STM32 Architecture

The STM32 MCU provides high-speed processing and low power consumption for the total station.

Intelligent Troubleshooting Software

Sunway has developed intelligent total station troubleshooting software that can diagnose 90% of the issues. This is a powerful tool for maintenance and repair workers.

Full-seal Absolute Encoding Unit

The full seal absolute encoding unit prevents moisture and dust from entering.

After restarting or powering off, previous information remains and no initialization is required.

Angle accuracy of all series: 2"

Stable biaxial correction

It is configured for automatic accuracy correction.

Correction range: ±3

Vivid graphic electronic bubble display.

Rich communication and communication

A wide range of data transfer options to meet a variety of needs, for example, USB Pen Drive, SD Card, Mini USB Interface

Wireless data transfer possible via Bluetooth



Model					
Angle Measurement		PTS-	-121A		
Measurement Method	Absolute Encoding				
Minimun Readout	1*				
Accuracy			2*		
Telescope					
Magnification			30X		
Field of View	1°30′				
Minimum Fousing Distance	1.5m				
Reticle	Illuminated				
Compensator					
System		Dual-ax	is tilt sensor		
Working Range	±3'				
Accuracy	1'				
Distance Measurement (with Reflector)					
Single Prism		****	m /E000m		
(Under general/good conditions)	4000		lm/5000m		
Reflective Sheet	1000m				
Accuracy	2mm+2ppm				
Measuring Time(Fine/Tracking)	0.8s/0.4s		0.8s	/0.3s	
Distance Measurement (Reflectorless)					
Reflectoriess Range (Calculated by Kodak Gray Card white side with 90% reflective)	400m	600m	800m	1000m	
Accuracy	3mm+2ppm				
Measuring Time	1.5s				
Communication					
Internal Data Memory		Approx.2000	0 Points/SD Card		
Interface		Standard RS232,N	Mini-B,USB pen drive		
Wireless Communication		Bu	letooth		
Data Format			ASCII		
Operation					
System		Real-time Op	perating System		
Disply			240 TFT Screen		
Keyboard	2 sides Alphanumeric backlit crystal keyboard				
Laser Plummet					
Туре	Laer po	int,4 brightness levels adj	justment/Optical plummet(o	ptional)	
Centering Accuracy	1mm at 1.5m insturument height				
Environmental					
Operating Temperature		-20°C- +50°	C(-4F to +122F)		
Storage Temperature	-40°C- +70°C(-40F to +158F)				
Temperature&Pressure	Manual input				
Dust&Water Proof (IEC60529 Standard)	1P55				
Power Supply					
Battery Type		Li-ior	n battery		
Voltage/Capacity	ZBA-400:7.4V(DC)/3000mAh				
				10 hours/Tunical	
Operating Time With ZBA-400	Optimal 16 hour	rs(Continuous angle meas	surement every 30 seconds)/	to nouist typical,	