

PTS-1202R Reflectorless Total Station

Our PTS-1202R reflectorless total stations of this type have more software features than the PTS142R and PTS132R total stations. Large display, 2-axis compansion, and absolute encoding. Without a reflector, the measurement distance is 1000 meters. Depending on the client's request, the long distance can reach 800 meters without a reflector. [China total station manufacturer](#)



Model PTS-1202R	
telescope	
Objective aperture	45mm (Electrode diameter 45mm)
magnification	30x
Field of view	30 minutes per degree
Resolution	3"
Minimum focus	1.0m(MF)
Distance measurement	
Mini Prism	1.5m to 1000m
Single prism	5,000m
Three prisms	8,000m
Non-prism	300-500m (depending on the condition of the object to be reflected)
Prism/Reflective Patch Accuracy	±(2mm2ppm XD)
Non-prism accuracy	±(3mm2ppm×D)
Distance measurement time	
Normal measurement	1.2 seconds (standard), 0.7 seconds (high speed)
Summary measurement	
Track mode	0.4 seconds
Angle measurement	

Angle measurement accuracy	2"
Angle measurement method	Absolute reading
Minimum Readout	1 inch/5 inch
screen	
Screen type	Double-sided (alphanumeric keyboard)
Compensator	
method	Single shaft (two shaft option)
Compensator Range	±3 inches
Centralizer	
Visible laser alignment, alignment accuracy: ±1.0mm (apparatus height 1.5m)	
Focus range	
0.5~∞	
Angle of view	
3°30	
Durability	
Dust and waterproof measures	IP54
Working temperature	-20°C to 50°C
power supply	
Built-in battery	Large capacity lithium battery/Nickel-hydrogen battery
Charger	Input voltage AC100-240V, output voltage DC7.5V
Operating time (angle measurement distance measurement)	10 hours
others	
Instrument size	343HX172WX177L
Weight (including batteries)	5.4kg
Communication interface	RS-232C
Internal functions	
software	REM measurement, coordinate measurement,
	Resection measurement, area measurement,
	Line setting, missing line measurement,
	Coordination, road surveying, design
Storage capacity	50,000 points