# Leica TPS1200+ Technical specifications and system features



## Models and options

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	TC	TCR	TCRM	TCA	TCP	TCRA	TCRP
Angle measurement	•	•	•	•	•	•	•
Distance measurement (IR-Mode) •		•	•	•	•	•	•
PinPoint reflectorless dist. measurem. (RL-Mode)		•	•			•	•
Motorized			•	•	•	•	•
Automatic Target Recognition (ATR)				•	•	•	· • .
PowerSearch (PS)					•		•
Guide Light (EGL)	0	0	0	•	•	•	•
Remote Control Unit / RadioHandle	0	0	0	0	0	0	0
GUS74 Laser Guide				0		0	
SmartStation (ATX1230+ GNSS)	0	o	0	0	0	o	0

= Standard

= Optional

# Angle measurement



		Type 1201+	Type 1202+	Type 1203+	Type 1205+
Accuracy (std.dev., ISO 17123-3)	Hz, V	1" (0.3 mgon)	2" (0.6 mgon)	3" (1 mgon)	5" (1.5 mgon)
	Display resolution:	0.1" (0.1 mgon)	0.1" (0.1 mgon)	0.1" (0.1 mgon)	0.1" (0.1 mgon)
Method	absolute, continuous, diametrical				
Compensator	Working range:	4' (0.07 gon)	4' (0.07 gon)	4' (0.07 gon)	4' (0.07 gon)
	Setting accuracy:	0.5" (0.2 mgon)	0.5" (0.2 mgon)	1.0" (0.3 mgon)	1.5" (0.5 mgon)
	Method:	centralized dual axis compensator			

### Distance measurement (IR-Mode)



Distance measurement (IR-Mode)				
Range	Round prism (GPR1):	3000 m		
(average atmospheric conditions)	360° reflector (GRZ4):	1500 m		
	Mini prism (GMP101):	1200 m		
	Reflective tape (60 mm x 60mm)	250 m		
	Shortest measurable distance:	1.5 m		
Accuracy / Measurement time	Standard mode:	1 mm + 1.5 ppm / typ. 2.4 s		
(standard deviation, ISO 17123-4)	Fast mode:	3 mm + 1.5 ppm / typ. 0.8 s		
	Tracking mode:	3 mm + 1.5 ppm / typ. < 0.15 s		
	Display resolution:	0.1 mm		
Method	Special phase shift analyzer (coaxial, visible red laser)			

# PinPoint R400/R1000 reflectorless distance measurement (RL-Mode)



This old Rado, Kroot Tellectoriess distance incasarement (Kr Mode)						
Range PinPoint R400:		400 m / 200 m (Kodak Gray Card: 90 % reflective / 18 % reflective)				
(average atmospheric conditions)	PinPoint R1000:	1000 m / 500 m (Kodak Gray Card: 90 % reflective / 18 % reflective)				
	Shortest measurable distance:	1.5 m				
	Long Range to round prism (GPR1):	1000 m - 7500 m				
Accuracy / Measurement time	Reflectorless < 500 m:	2 mm + 2 ppm / typ. 3 - 6 s, max. 12 s				
(standard deviation, ISO 17123-4)	Reflectorless > 500 m:	4 mm + 2 ppm / typ. 3 - 6 s, max. 12 s				
(object in shade, sky overcast)	Long Range:	5 mm + 2 ppm / typ. 2.5 s, max. 12 s				
Laser dot size	At 30 m:	approx. 7 mm x 10 mm				
	At 50 m:	approx. 8 mm x 20 mm				
Method	PinPoint R400 / R1000:	System analyzer (coaxial, visible red laser)				

# Motorized



Maximum speed	Rotating speed:	45° /s	
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