

PULSE TOTAL STATION

GPT-3000LN/Nseries

Universal Reflectorless

Long Range • Surface Independent • Pulsed Precision





- New road function can automatically calculate a complicated spiral curve and a long distance route only by inputting the starting point, terminal point and a curvilinear element.
- Topcon realize easy to push alphanumeric keyboard interval.

SPECIFICATIONS

	GPT-3002LN/N GPT-3003LN/N GPT-3005LN/N GPT-3007LN/N		GPT-3002LN/N GPT-3003LN/N GPT-3005LN/N GPT	Γ-3007LN/N
TELESCOPE		ANGLE MEASUREMENT		
Length	150mm	Method	Absolute Reading	
Objective Lens Dia.	45mm (EDM 50mm)	Detecting System	H: 2 sides H: 2 sides H	I: 1 side
Magnification	30×			7: 1 side
Image	Erect	Minimum Reading		0"(1/2mgon)
Field of View	1°30′	Accuracy*1	2"(0.6mgon) 3"(1mgon) 5"(1.5mgon) 7"	
Resolving Power	2.8"	Measuring Time	Less than 0.3 sec.	
Min. Focus Distance	1.3m (4.29 ft.)	Diameter of Circle	71mm	
DISTANCE MEASUREMENT		DISPLAY		
Prism Mode		Display Unit	Graphics LCD 160 × 64 Dots with backlight	
Measuring Range				side
Mini prism	1,000m*	Keyboard	Alpha-Numeric key	
1 prism	3000m*/4,000m**	TILT CORRECTION (AUTOM		
3 prisms	4,000m*/5,300m**	Tilt Sensor		gle axis
9 prisms	5,000m*/6,500m**	Method	Liquid type	igic datis
	bout 20km (12.5 miles) moderate sunlight with light heat shimmer.	Compensating Range	±3'	
** Condition 2: No haze with visibility about 40km(25 miles), overcast with no heat shimmer.		Correction Unit	1" (0.1mgon)	
Measurement Accuracy*3	Fine: ±(2mm+2ppm×D)m.s.e.	OTHERS	1 (0.1111gOII)	
Measurement Accuracy	Coarse: ±(7mm+2ppm×D)m.s.e.	The Number of Measuring Points	Approx. 24,000 points	
Measuring Time	Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)	Instrument Height	176mm (6.93 in.)	
Weasuring Time	0.2mm: Approx. 3.0 sec. (Initial 4 sec.)	Laser Class	Class 1 (for distance measurement	- 1
	Coarse mode 1mm/10mm Approx. 0.5 sec. (Initial 2.5 sec.)	Laser Class		.)
N Di M-1- (Diffi Cf-		LEVEL SENSITIVITY	Class 2 (Laser Pointer on)	
Non-Prism Mode (Diffusing Surface) Measuring Range 1.5m to 250m		Circular Level 10' /2mm		
Measuring Accuracy	Fine: 1.5 to 25m \pm (10mm)m.s.e.	Plate Level		0" /2mm
Measuring Accuracy	25m or more ±(5mm)m.s.e.	DIMENSION	336(H)×184(W)×172(L)mm/13.2(H)×7.2(W)×	
	Coarse: ±(10mm)m.s.e.	WEIGHT	330(H)×164(W)×172(L)IIIII/13.2(H)×7.2(W)×	0.8(L)III.
Measuring Time	Fine mode 1mm: Approx. 1.2 sec. (Initial 3 sec.)	Instrument (with battery)	5 2h- (11 (1h-)	
Measuring Time	0.2mm: Approx. 3.0 sec. (Initial 4 sec.)	Plastic Carrying Case	5.3kg(11.6 lbs.)	
		Plastic Carrying Case	3.4kg (7.5 lbs.) (Weight of the carrying ca	
N. D. I. M. I. (Diff. :	Coarse mode 1mm/10mm: Approx. 0.5 sec. (Initial 2.5 sec.)	TATUS A TATE PERF	be slightly different due to specific ma	rket.)
Non-Prism Long Mode (Diffusing Surface)*2		DURABILITY Description of the state of the		
Measuring Range	5m to 1,200m	Protection against water and dust	IP66 (with BT-52QA) (Based on the standard IEC60529)	
Measuring Accuracy*3	Fine 1mm: ±(10mm+10ppm×D)m.s.e.	Ambient Temperature Range	-20°C to +50°C (-4°F to +122°F)	
(<500m, Kodak Gray Card	Coarse 5mm/10mm: ±(20mm+10ppm×D)m.s.e.	BATTERY BT-52QA*4	DC7.2V	
White Surface (90%))				
Measuring Time	Tracking 10mm: ±(100mm)m.s.e.	Output Voltage		
	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.)	Capacity	2.7 Ah (Ni-MH)	
	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.)	Capacity Maximum operating time (when	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F)	
	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.)	Capacity Maximum operating time (when Including distance measurement	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou	rs
Least Count in Measurement	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.) Tracking mode 10mm: Approx. 0.4 sec. (Initial 4 to 7 sec.)	Capacity Maximum operating time (when Including distance measurement Angle measurement only	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou 45 hours	rs
Least Count in Measurement Prism Mode/Non-Prism Mode	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.) Tracking mode 10mm: Approx. 0.4 sec. (Initial 4 to 7 sec.) Fine mode 1mm/0.2mm	Capacity Maximum operating time (when Including distance measurement Angle measurement only Weight	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou	rs
Prism Mode/Non-Prism Mode	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.) Tracking mode 10mm: Approx. 0.4 sec. (Initial 4 to 7 sec.) Fine mode 1mm/0.2mm Coarse mode 10mm/1mm	Capacity Maximum operating time (when Including distance measurement Angle measurement only Weight BATTERY CHARGER BC-27	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou 45 hours 0.3kg (0.7 lbs.)	rs
	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.) Tracking mode 10mm: Approx. 0.4 sec. (Initial 4 to 7 sec.) Fine mode 1mm/0.2mm Coarse mode 10mm/1 mm Fine mode 1mm	Capacity Maximum operating time (when Including distance measurement Angle measurement only Weight BATTERY CHARGER BC-27 Input Voltage	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou 45 hours 0.3kg (0.7 lbs.) AC 100-240V (BC-27)	rs
Prism Mode/Non-Prism Mode	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.) Tracking mode 10mm: Approx. 0.4 sec. (Initial 4 to 7 sec.) Fine mode 1mm/0.2mm Coarse mode 10mm/1mm Fine mode 1mm Coarse mode 5mm/10mm	Capacity Maximum operating time (when Including distance measurement Angle measurement only Weight BATTERY CHARGER BC-27 Input Voltage Frequency	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou 45 hours 0.3kg (0.7 lbs.) AC 100-240V (BC-27) 50/60Hz	rs
Prism Mode/Non-Prism Mode Non-Prism Long Mode	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.) Tracking mode 10mm: Approx. 0.4 sec. (Initial 4 to 7 sec.) Fine mode 1mm/0.2mm Coarse mode 10mm/1mm Fine mode 1mm Coarse mode 5mm/10mm Tracking mode 10mm	Capacity Maximum operating time (when Including distance measurement Angle measurement only Weight BATTERY CHARGER BC-27 Input Voltage Frequency Recharging Time (at +20°C/+68°F)	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou 45 hours 0.3kg (0.7 lbs.) AC 100-240V (BC-27) 50/60Hz Battery BT-52QA: 1.8 hours	
Prism Mode/Non-Prism Mode Non-Prism Long Mode Measurement Display	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.) Tracking mode 10mm: Approx. 0.4 sec. (Initial 4 to 7 sec.) Fine mode 1mm/0.2mm Coarse mode 10mm/1mm Fine mode 1mm Coarse mode 5mm/10mm Tracking mode 10mm 12 digits: max. display 9999999.9999	Capacity Maximum operating time (when Including distance measurement Angle measurement only Weight BATTERY CHARGER BC-27 Input Voltage Frequency Recharging Time (at +20°C/+68°F) Discharging Time (at +20°C/+68°F)	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou 45 hours 0.3kg (0.7 lbs.) AC 100-240V (BC-27) 50/60Hz Battery BT-52QA: 1.8 hours Battery BT-52QA: 8 hours (in case of full	charge)
Prism Mode/Non-Prism Mode Non-Prism Long Mode	Fine mode 1mm: Approx. 1.5 to 6 sec. (Initial 6 to 8 sec.) Coarse mode 5mm/10mm: Approx. 1 to 3 sec. (Initial 6 to 8 sec.) Tracking mode 10mm: Approx. 0.4 sec. (Initial 4 to 7 sec.) Fine mode 1mm/0.2mm Coarse mode 10mm/1mm Fine mode 1mm Coarse mode 5mm/10mm Tracking mode 10mm	Capacity Maximum operating time (when Including distance measurement Angle measurement only Weight BATTERY CHARGER BC-27 Input Voltage Frequency Recharging Time (at +20°C/+68°F)	2.7 Ah (Ni-MH) fully recharged) at +20°C (+68°F) 3000LN: 3.5 hours 3000N: 4.2 hou 45 hours 0.3kg (0.7 lbs.) AC 100-240V (BC-27) 50/60Hz Battery BT-52QA: 1.8 hours	charge)

- *1 Standard deviation based on DIN18723 *2 GPT-3000LN only *3 D: Measuring Distance
- *4 Battery using time will vary depending on environmental conditions and operations done with GPT-3000LN/N series.
- Designs and specifications herein are subject to change without notice (E. & O.E.).

Important In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.





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Your local authorized Topo	on distributor is :
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