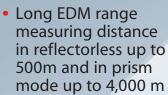
PENTAX | R-1500N Series

Total Surveying Solution



- Large internal memory: 60000 points.
- Dual display as a standard equipment
- Easy transfer to a PC via SD card, USB mini and RS-232C data port
- Pre-loaded versatile software functions
- Dual battery system for long time use



INCREASE YOUR WORK EFFICIENCY

FASTER TURNAROUND





Technical Specifications R-1500N Series Total Station

Model			R-1501N	R-1502N	R-1503N	R-1505N
elescope	Image			Er	ect	
	Magnification		30 x			
	Effective Aperture			45	mm	
	Resolving Power			3.0"		
	Field of View			1°20′		
	Minimum Focus			1.0m		
	Focus			Manual		
	Laser Class			Visible Laser: Class IIIa (Reflectorless, sheet) / Class I (Prism)		
Neasurement Range (Go	ood condition) *3					
Reflectorless *1			1.5m ~ 500m			
	Reflector Sheet *2		1.5m ~ 800m			
	Mini Prism			1.5m ~ 800m		
	1P			1.5m ~ 4000m		
	3P			1.5m ~ 5000m		
Accuracy	Prism			±(2+2ppm x D)mm		
Accuracy	Reflector Sheet			±(3+2ppm x D)mm		
	Reflectorless				(3+2ppm x D)mm	
	Reflectoriess				(5+2ppm x D)mm	
					- ' '	
	Minimum Count				10+2ppm x D)mm mal mode), 10mm (Track mode)	
Measurement Time *4						
	Repeat Meas. Fine (0.1mm)				ess 3.0sec. (over 300m 5.0sec.)	
		Normal (1mm) Track (10mm)			ess 2.0sec. (over 300m 4.0sec.)	
					less 0.4sec. (over 300m 0.4sec.)	
	Initial Meas.	Fine (0.1mm)			over 300m ~ 13sec.	
		Normal (1mm)			over 300m ~ 12sec.	
		Track (10mm)			over 300m ~ 12sec.	
Angle Measurement	Measuring Method				tary encoder	
	Detection Method				rizontal angle	
					ides	
	Minimum Count				/ 5"	
Accuracy (ISO17123-3)		23-3)	1"	2"	3"	5″
ompensator					axis	
ompensator range					30"	
angent Screw				1 Speed/Cla	mping (<30")	
Sensitivity of Vials	Plate Level			30"/1div.	(electrical)	
	Circular Level			8'/2	2mm	
lummet				Visible Laser, ±0.5mm (instrument height 1.5m)	
Base				Deta	chable	
Dust and Water Protection				IP55 (instru	ument only)	
Ambient Temperature				-20°C ~ 50°C / -4°F ~	122°F (Working range)	
ripod Thread			5/8	″x 11		
Dimensions/Weight	Dimensions			183 (W) x 342	(H) x 167(L)mm	
	Weight (incl. Battery)			5.4	ł kg	
arrying Case				440(W) x 370 (H) x	275 (L)mm /3.9 kg	
attery Pack	Power Source			Li-ion 3,350mAh X 2 :	= 6,700mAh (hotswap)	
	Operation Time		Continuous approx. 10.0hrs (ETH+EDM) with approx. 2.5hrs. of charging time			
	Weight				00g	
Sattery Charger and AC	Adapter					
Input Voltage (AC05)		(05)		AC 100) ~ 240V	
	Output Voltage (BC05)				8.4V	
Data Process	Data Recording Method			Internal	Memory	
	Capacity / Coordinates Data				GB / 60000	
	Special Function				oExpress 2	
	I/F				8 mini, Bluetooth (class2)	
Display / Keyboard	Display Type				rs x 8 lines / 240 x 96 pixels	
	Quantity			·	2	
	Keys				/ 5 function / 5 special)	
	iceys				tings: 10 steps	
Jisplay Rack Light					unus, 10 steps	
Display Back Light Laser Pointer					es	

* Specifications are subject to change without notice

- *1 The measurement range and accuracy of reflectorless, and time required to measure may vary by the shape, size of surface area and reflection rate of the target and its environment.

 The measurement range of reflectorless is determined by the white side of the Kodak Gray Card.
- *2 Reflector sheet: Genuine Reflector sheet *3 The measurement range may vary by conditions of the environment. Normal conditions: 20km visibility with slight shimmer Good conditions: 40km visibility with overcast, no heat, no shimmer and moderate wind.
- *4 EDM measuring time is determined in good conditions. It may takes longer than usual to measure the distance exceeding 4000m in prism mode and 300m in reflectorless mode.

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