PENTAX | W-1500N Series

A Truly Integrated System

LONG RANGE



PENTAX

Technical Specifications W-1500N Series WinCE Total Station

Model		W-1501N	W-1502N	W-1503N	W-1505N
Telescope	Image	Erect			
	Magnification	30x			
	Effective aperture		45mm		
	Resolving power		3.0″		
	Field of view		1°20′		
	Minimum focus distance		1.0m		
	Focus		Manual		
Distance measurement	Laser class	N	Visible Laser: Class IIIa (Reflectorless, sheet) / Class I (Prism)		
Measurement range (G	ood condition) (*3)				
	Reflectorless (*1)		1.5m ~ 500m		
	Reflector sheet (*2)		1.5m ~ 800m		
	Mini Prism		1.5m ~ 1200m		
	Prism 1P		1.5m ~ 4000m		
	Prism 3		5000m		
Accuracy (*4)	Prism		±(2+2ppm x D)mm		
	Reflector Sheet		±(3+2ppm x D)mm		
	Reflectorless		2~200m: ±(3+2ppm x D)mm		
			$200 \sim 300 \text{m} \pm (5 + 2 \text{ppm x D}) \text{mm}$		
			$300 \sim 500$ m: $\pm (10+2ppm x D)$ mm		
	Measuring method		Absolute rotary encoder		
	Detection method		Vertical / Horizontal angle		
	Detection method		2 sides		
	Minimum count	0.5" / 1" / 5"	2 310	1" / 5"	
	Accuracy (ISO 17123-3)	1"	2"	3″	5″
Compensator	Axis	I			5
compensator			2 axis ±3'		
Range					
Tangent screw Sensitivity of vials	Distribusi		1 Seed/Clamping (<30")		
	Plate level		30"/1div. (electrical)		
	Circular level		8'/2mm Visible Laser, ±0.5mm (instrument height 1.5m)		
Plummet					
Base			Detac		
Dust and Water Protection			IP55 (instrur		
Ambient temperature			-20°C ~ 50°C / -4°F ~12		
ripod thread		5/8″x 11			
Dimensions / Weight	Dimensions		183 (W) x 342(H) x 167(L)mm		
	Weight (battery not incl.)	5.4kg			
Carrying case	Dimensions / weight	440(W) x370 (H) x275 (L)mm /3.9 kgs.			
Battery 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			ging time
	Weight		5.4kg		
Battery charger and AC	Adapter				
	Input voltage		AC 100	~ 240V	
	Output voltage		DC7.4V		
Data Process	CPU Memory/Clock frequency		4GB/528MHZ		
	OS	Microsoft Window CE 5.0			
	Application software		Selectable		
	I/F		RS232C, USB mini, Bluetooth(Class 2), USB Flash Drive		
Display / Keyboard	Display type		3.5" colour TFT LCD (320 >		
	Quantity		2		
	Keys		26 each		
Display back light	··-,-		Ye		
Laser Pointer			Ye		
-user r uniter			Ye		

*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 2000m in prism mode and 300m in reflectorless mode.

TI Asahi Co., Ltd.

International Sales Department 4-3-4 Ueno Iwatsuki-Ku, Saitama-Shi Saitama, 339-0073 Japan Tel.: +81-48-793-0118 Fax. +81-48-793-0128 E-mail: International@tiasahi.com

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CAUTION LASER RADIATION - DO NOT STARE INTO BEAM 620-690 nm/0.95mW max. CLASS II LASER PRODUCT Laserclass II, conform FDA 21 CFR Ch. 1 § 1040



The CE marking assures that his product complies with he requirements of the EC lirective for safety.

ISO

ISO 9001:2008

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