

PENTAX | W-1500N Series

A Truly Integrated System



500M



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	Visible Laser: Class IIIa (Reflectorless, sheet) / Class I (Prism)			
Measurement range (Good 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)		±(2+2ppm x D)mm		
Angle measurement	Prism		±(3+2ppm x D)mm		
	Reflector Sheet		2~200m: ±(3+2ppm x D)mm		
	Reflectorless		200~300m: ±(5+2ppm x D)mm		
			300~500m: ±(10+2ppm x D)mm		
Angle measurement	Measuring method		Absolute rotary encoder		
	Detection method		Vertical / Horizontal angle		
			2 sides		
	Minimum count	0.1" / 0.5" / 1" / 5"		1" / 5"	
Compensator	Accuracy (ISO 17123-3)	1"	2"	3"	5"
	Axis		2 axis		
Tangent screw	Range		±3'		
			1 Seed/Clamping (<30")		
Sensitivity of vials	Plate level		30"/div. (electrical)		
	Circular level		8/2mm		
Plummet			Visible Laser, ±0.5mm (instrument height 1.5m)		
Base			Detachable		
Dust and Water Protection			IP55 (instrument only)		
Ambient temperature			-20°C ~ 50°C / -4°F ~ 122°F (Working range)		
Tripod 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) x 370 (H) x 275 (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		
Battery charger and AC Adapter	Weight		5.4kg		
	Input voltage		AC 100 ~ 240V		
Data Process	Output voltage		DC7.4V		
	CPU Memory/Clock frequency		4GB/528MHZ		
	OS		Microsoft Window CE 7.0		
	Application software		Selectable		
Display / Keyboard	I/F		RS232C, USB mini, Bluetooth(Class 2), USB Flash Drive		
	Display type		3.5" colour TFT LCD (320 x 240 dots) touch screen		
	Quantity		2		
	Keys		26 each		
Display back light			Yes		
Laser Pointer			Yes		
Date clock			Yes		

* Specifications are subject to change without any 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 overcast, no heat, no shimmer and moderate wind.
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



www.pentaxsurveying.com/en/

Your Official Pentax Dealer



The CE marking assures that this product complies with the requirements of the EC directive for safety.



DANGER
 LASER RADIATION - DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENT INTO SUNLIGHT
 620-690 nm/4.75mW max.
 CLASS IIIa LASER PRODUCT
 Laserclass IIIa, conform FDA 21 CFR Ch. 1 § 1040

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

JSIMA
 Japan Surveying Instruments Manufacturers' Association
 Member symbol of the Japan Surveying Instruments Manufacturers' Association representing the high quality surveying products.