PENTAX | W-1500N Series

A Truly Integrated System

LR LONG RANGE

500M



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°30′			
	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)	500m			
	Reflector sheet (*2)	800m			
	Mini Prism	1200m			
	Prism 1P	3000m			
	Prism 3	5000m			
Accuracy (*4)	Prism	±(2+2ppm x D)mm			
	Reflector Sheet	±(3+2ppm x D)mm			
	Reflectorless	2~150m: ±(3+2ppm x D)mm 150~300m: ±(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	0.5″ / 1″ / 5″	1″ / 5″		
	Accuracy (ISO 17123-3)	1″	2″	3″	5″
Compensator	Axis	2 axis			
	Range	±3′			
Tangent screw		1 Seed/Clamping (<30″)			
Sensitivity of vials	Plate level	30″/1div. (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) x370 (H) x275 (L)mm /3.9 kgs.			
Battery pack	Power source	Li-ion 4400mAh			
	Operation time	Continuous approx. 8.0hrs (ETH+EDM) with approx. 2.5hrs. of charging 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 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 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

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.

ISO 9001:2008

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.

* Designs and specifications are subject to change without notice. - Printed in Belgium - LEAF-W1500N-EN-1503- © PENTAX 2015