

PENTAX | W-1500NL Series

A Truly Integrated System



500M



Model		W-1501NL	W-1502NL	W-1503NL	W-1505NL
Telescope	Image			Erect	
	Magnification			30x	
	Effective aperture			45mm	
	Resolving power			3.0"	
	Field of view			1°25'	
	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	
	Prism			±(2+2ppm x D)mm	
Accuracy (*4)	Reflector Sheet			±(3+2ppm x D)mm	
	Reflectorless			2~200m: ±(3+2ppm x D)mm 200~300m: ±(5+2ppm x D)mm 300~500m: ±(10+2ppm x D)mm	
	Measuring method			Absolute rotary encoder	
Angle measurement	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 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.

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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

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