

PENTAX

W-1500 Series

A TRULY INTEGRATED SYSTEM



500M



Bluetooth



80th
PENTAX
SURVEYING
SINCE 1933
TI Asahi Co., Ltd.
anniversary

PENTAX Total Station W-1500 Series Technical specifications

Model	W-1502N	W-1505N
Operation Panel	Numerical board with function buttons, user can input English letters	
LCD / CDU	Double-keyboard color screen panel	
Language	English / Traditional Chinese	
I/F	RS232C, SD card, USB mini type B	
Telescope	Integrated coaxial telescope, 360 degree rotatable	
Magnification	30X	
Resolving Power	3"	
Field of View	2.6% (1° 31')	
Minimum Focus	1.0m	
Focus	Manual focus	
Hair Cross Illumination	Available	
Collimator	Optical	
Distance Measurement	User can input horizontal angle, User can measure horizontal and zenith angle	
	Angle-measure ready after switch-on, Show vertical angle and horizontal angle in same screen	
Laser Class	Class III a (3R) (Reflectorless) / Class II (2) (Prism, sheet), Optional laser plummet or optical plummet	
Measuring range		
Reflectorless	1.5 ~ 500 m	
Reflective sheet	1.5 ~ 500 m	
Mini prism	1.5 ~ 1200 m (1500 m)	
Single prism	1.5 ~ 4000 m (5000 m)	
Triple prism	1.5 ~ 5000 m (7000 m)	
Accuracy		
Prism	±(2+2 ppmxD) mm	
Reflective sheet	±(2+2 ppmxD) mm	
Reflectorless	±(3+2ppmxD) mm(1.5 ~ 300 m); ±(7+10ppmxD) mm(301 m ~)	
Sensitivity of vials	Plate level (electronic)	30" / 1 div.
	Circular level	8' / 2 mm
EDM system		
Minimum display	0.1 mm	
Fast measurement	Available	
Laser pointer	Available	
Horizontal angle measurement	Based on ISO 17123-3	
Measurement method	Absolute encoder	
Detection	2 sides detection	
Minimum display	1"/5"	
Accuracy	2"	5"
Vertical angle measurement	Based on ISO 17123-3	
Encode system	Absolute encoder	
Detection	2 sides detection	
Minimum display	1"/5"	
Accuracy	2"	5"
Compensator		
Compensator	2 Axis(±3)	
Type	Capacitive tilt sensor system	
Range	±3'	
Resolution	1"	
Accuracy	⊠5"	
Application functionality		
Base Tangent screw	1 Speed	
Sensitivity of vials		
electric vial	30"/1div	
Plate level	One side vial (30"/2mm)	
Plummet		
	LDP	
	Detachable	
Water resistance	IP65	
Ambient temperature	-20°C ~ + 50°C	
Weight/Dimension		
Type Dimensions	194(W)×345(H)×167(L)mm	
Weight	5.9kg	
Battery	5000mah(2), >14 Hrs	
Input voltage	DC7.4 V	
	Li-Ion	
Charger		
Input	AC 100 ~ 240V	
Output	DC 8.4 V	
Internal memory	30,000(built-in)	
Bluetooth	Option	

* Designs and specifications are subject to change without notice. - © PENTAX, 2013

TI Asahi Co.,Ltd.

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
http://www.pentaxsurveying.com/en/



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



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