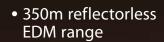
PENTAX R-200 Series

EFFICIENT ACCURACY AT YOUR FINGERS!



- 2" and 5" models
- Adjustable laser plummet

INCREASED PRODUCTIVITY FASTER TURNAROUND







Total Station R-200 Series Specifications

Model		R-202NE	R-205NE		
Telescope	Magnification	30)x		
reiestope	Effective aperture	45mm (EDM45mm)			
	Resolving power	3.0"			
	Field of view	2.6 % (1° 30′)			
	Minimum focus	1.0 m			
	Focus	Manual			
Distance measurement	Laser Class	Visible laser: Class III a (3R) (Ref	lectorless) / Class II (2) (Prism, sheet)		
Measurement range	Reflectorless (*1)	1.5 ~ 3			
(Good conditions) (*3)	Reflector sheet (*2)	1.5 ~ 600 i	m (800 m)		
	Mini Prism	1.5 ~ 1,100 m (2,000 m)			
	1 P	1.5 ~ 3,000 m			
	3 P	1.5 ~ 4,500 m			
Accuracy	Prism / Reflector sheet	1.5 ~ 10 m: ± (3 + 2 ppm x D) mm / 10 m ~: ± (2 + 2 ppm x D) mm, Quick: ± (3+2ppm×D) mm (*5)			
•	Reflectorless	1.5 ~ 300 m: ± (5 + 2 ppm x D) mm / 300 m ~: ± (7 + 10 ppm x D) mm			
	Minimum count	0.1 mm (Fine mode) / 1 mm (Normal mode) / 10mm (Track mode)			
leassuring time (*4)	Repeat meas. Normal (1 mm)	Prism / Reflector sheet 2.0	sec - Reflectorless 2.0 sec		
•	Quick (1 mm)	Prism / Reflector sheet 1.2 sec (*5)			
	Track (10 mm)	Prism / Reflector sheet 0.4 sec - Reflectorless 0.4 sec			
	Initial meas. Normal (1 mm)	Prism / Reflector sheet 2.5	sec - Reflectorless 2.4 sec		
	Quick (1 mm)	Prism / Reflector sheet 1.7 sec (*5)			
	Track (10 mm)	Prism / Reflector sheet 2.5 sec - Reflectorless 2.5 sec			
ingle measurement	Measurement method	Absolute rotary encoder			
	Direction method	Vertical / Horizontal angle: 2 sides Vertical / Horizontal angle: 1 side			
	Minimum count	1" / 5" selectable			
	Accuracy (ISO 17123-3)	2"	5"		
ompensator	Axis	Single	Single		
	Range	±3'			
arget screw		1 sp	eed		
ensitivity of vials	Plate level	30" / 1 mm			
	Circular level	8' / 2 mm			
Plummet		Laser Plummet			
Base		Detachable			
Oust & water resistance		IP56 (instrument only)			
Imbient temperature		-20°C ~ +50°C / -4°F ~ 122°F (working range)			
ripod thread		5/8" x 11			
Dimensions / Weight	Dimensions	180 (W) x 342 (H) x 177 (L) mm			
	Weight (incl. battery)	5.7 kg			
	Carrying case	250 (W) x 365 (H) x 425 (L) mm			
attery pack	Power source	Ni-MH 4300 mAh (rechargeable) DC 6.0 V			
	Operation time	Approx. 7.0 hrs (ETH + EDM) / 15hrs (ETH) with approx. 2.2 hrs of charging time			
	Weight	380 g			
attery charger	Input Voltage	AC 100 ~ 240 V			
and AC adapter	Output Voltage	DC 7	7.5 V		
	Weight	280 g			
Data Process	Data recording method	Internal Memory			
	Coordinates data (*6)	20,000			
	Special function	PowerTopoLite			
	I/F	RS-232C			
Display / keyboard	Display type	Graphic LCD / 20 character	rs x 8 lines / 240 x 96 pixels		
	Quantity	double			
	Keys	22 each(12 numeric / 5 function / 5 special)			
	Display back light	Intensity settings: 10 steps			
aser Pointer		Yes			
Date clock		Yes			

- *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. (KODAK is a trademark of Eastman Kodak Company)

 *2 Reflector sheet: PENTAX genuine Reflector sheet

- *2 Reflector sheet: PENIAX 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, 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 4000m in prism mode and 300m in reflectorless mode. Also the measurement time in reflectorless mode is influenced by the share; size and surface area and reflection rate of the target and its environment.
- *5 Quick mode, which functions with prism and reflector sheet, is effective only under normal mode(1mm) and up to 500m.

*6 Number of points to be recorded may vary by usage.

Maximum number of point to be recorded per job site: 3000 points

Maximum number of job file to be recorded: 50 job files

Maximum data points to be sent from PC to the instrument: 3000 points

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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