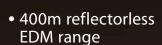
PENTAX R-400V Series

EFFICIENT ACCURACY AT YOUR FINGERS!



- Easy transfer to a PĆ via USB, SD connection
- Dual axis compensator 3" and 5" models
- Triple axis compensator 2" model
- Adjustable laser plummet

INCREASED PRODUCTIVITY FASTER TURNAROUND







Total Station R-400V Series Specifications

Model		R-422VN	R-423VN	R-425VN	R-435VN	
Telescope	Magnification		3	0 x		
	Effective aperture	45mm (EDM45mm)				
	Resolving power	3.0"				
	Field of view	2.6 % (1° 30′)				
	Minimum focus	1.0 m				
	Focus	Manual				
istance measurement	Laser Class	Visible laser: Class III a (3R) (Reflectorless) / Class II (2) (Prism, sheet)				
leasurement range	Reflectorless (*1)	1.5 ~ 400 m				
Good conditions) (*3)	Reflector sheet (*2)	1.5 ~ 600 m (800 m)				
	Mini Prism			m (2,000 m)		
	1 P	1.5 ~ 5,500 m (7,000 m)				
	3 P		1.5 ~ 7,000 m (9,000 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)				
Meassuring time (*4)	Repeat meas. Normal (1 mm)	Prism / Reflector sheet 2.0 sec - Reflectorless 2.0 sec				
	Quick (1 mm)			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				
Angle measurement	Measurement method	Absolute rotary encoder				
	Direction method	Vertical / Horiz	zontal angle: 2 sides		ntal angle: 1 side	
	Minimum count	Vertical / Horizontal angle: 2 sides Vertical / Horizontal angle: 1 side 1" / 5" selectable				
	Accuracy (ISO 17123-3)	2"	3"		5"	
ompensator	//ccd/acy (150 17 125 5)	3 Axis		2 Axis		
arget screw		377713	15	peed		
iensitivity of vials	Plate level		30" / 1 mm			
Scholing of this	Circular level	8' / 2 mm				
lummet	en caracitetes		Laser Plummet			
Base		Detachable Shifting				
Oust & water resistance		IP56 (instrument only)				
Ambient temperature			-20°C ~ +50°C / -4°F ~ 122°F (working range)			
ripod thread			5/8" x 11 35 mm P2			
Dimensions / Weight	Dimensions			(H) x 177 (L) mm	33 111111 2	
Difficustions / Weight	Weight (incl. battery)		5.7 kg	(11) A 17 / (L) 111111	5.5 kg	
	Carrying case	250 (W) x 365 (H) x 425 (L) mm				
Battery 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	Арргох. 7.0 ms (стп + сым) / тэпіз (стп) with approx. 2.2 ms of charging time 380 q				
Sattery charger	Input Voltage			0 ~ 240 V		
and AC adapter	Output Voltage			7.5 V		
	Weight			7.5 v 30 g		
Data Process	Data recording method			l Memory		
	Coordinates data (*6)			.000		
	Special function			TopoLite		
	1/F			D CARD, USB		
Display / keyboard	Display type			D CARD, USB 20 characters x 8 lines / 240 x 96	nivols	
					pixeis	
	Quantity			optional)		
	Keys			/ 5 function / 5 special)		
D - I - 1	Display back light		-	tings: 10 steps		
Laser Pointer				/es		
Date clock			\	/es		

- *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

- *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 per job site: 3000 points
Maximum data points to be sent from PC to the instrument: 3000 points

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Your Official Pentax Dealer		



ISO

You should be able to use any SD card in your camera. While Pentax does not guarantee compatibility with any particular manufacturer or model, we have seen consistent compatibility with SD cards from Panasonic (1GB). SanDisk (1GB), and Toshiba (1GB)







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