

PENTAX *VISIO*

FAMILY OF PRODUCTS

PENTAX V-325DN

Capture the full picture!
More details, Higher Field Performance

- Simply measure the point and capture the image
- Analyse and compare
- Print - it's easy!

Key Features

- 3.1M pixel CMOS camera
- 3 x Digital Zoom
- 1.5inch TFT LCD Monitor/ Finder
- FL=50mm Field Angle=8.8deg
- Point mark function with data record
- SD card slot(1Gb) / Int. memory (32Mb) for data storage
- Super impose function
- Data output using SD Card/USB

Applications:

Surveying & Construction
Mapping and GIS
Utilities
Police departement
Accident investigation
Environmental Studies
Geomarking



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Total Station V-325DN Series Specifications

Model	V-325DN	
Telescope	Magnification	30 x
	Resolving Power	3"
	Field of View	2.6% (1° 30')
	Minimum Focus	1.0 m
	Reticule Illumination	Yes
	Pointer	Visible Laser
	Focus	Manual
EDM	Laser Class	Visible Laser Class III a (3R)
	Measurement Range (Good Condition)	
	Reflectorless - Standard	1.5 ~ 90 m
	- Long Range Mode	1.5 ~ 250 m
	Reflector Sheet	1.5 ~ 600 m (800 m)
	Mini Prism (40 km visibility)	~ 1100 m (1600 m)
	1P (40 km visibility)	~ 3400 m (4500 m)
	3P (40 km visibility)	~ 4500 m (5600 m)
	Accuracy	
	Reflectorless	1.5 m ~ 200 m : ± (5 + 2 ppm x D) mm - 200 m ~ ± (7 + 10 ppm x D) mm
	Prism/Reflector Sheet	± (2 mm + 2 ppm x D) mm
	Distance Measurement	
	Minimum Reading - Normal	Approx. 2.0 seconds (1 mm)
- Tracking Mode	0.4 second (cm)	
Laser Pointer	Yes	
Automatic Atmospheric Correction	No	
Angle Measurement	Measuring system	Absolute Rotary Encoder
	Detection Method	Vertical/Horizontal angle: Single
	Minimum count	5" / 1"
	Accuracy (ISO17123-3)	5"
	Vertical Angle Compensation	Single Axis
	Tangent Screw	1 Speed
Digital Camera (DSC)	Sensor	CMOS 3.1 megapixels
	Resolving Power of LCD	"2048 x 1536 / 1600 x 1200 / 1280 x 960 / 640 x 480 Selectable
	Monitor (LCD)	1.5" Color TFT 34 mm x 24 mm (502x240 dot.)
	EV Compensation	-2 EV ~ + 2 EV (0.5 EV Step): Selectable
	White Balance	Auto / Daylight / Cloudy / Fluorescent Light / Incandescent Light: Selectable
	Sensitivity	ISO=100/200/400
	File Format	JPEG
	JPEG Quality (Compression)	BEST 1/4 BETTER 1/8 GOOD 1/16 Selectable
	File Management	DCF (Ver.1.0)/FAT 16 Format
	Digital Zoom	1x/2x/3x
	Play Back Function	Yes
	Internal Flash Memory	32MB
	External Memory	SD Card (up to 1G)
	Focal Length	50 mm
	Focus Range	20 m ~ ∞ (fixed focal length)
	Field of View	8.8°
	Effective Diameter	f/5.6
I/F	USB 2.0	
Power	Internal (supplied from Total Station)	
Data Process (TS)	Data Recording Method	Internal Memory
	Internal Memory	30,000 points
	Clock function	Yes
	Special function	PTL+DSC
	Interface	RS-232C
Display / Keyboard	LCD	Full DotMatrix STN LCD Two side
	Language	English
	Keyboard	Alphanumeric Key (10 Keys)
Tangent Screw		1 Speed
Plate Vial	Plate Vial	40" / 2mm
	Circular Vial	8" / 2 mm
Plummet		Optical Plummet
Base		Detachable
Dust and Water Protection		IP55
Working Temperature		-20°C ~ +50°C
Physical	Dimension	173 (W) x 343 (H) x 177 (L) mm
	Weight	5.4 kg
	Battery	BP02
	Battery Charger	BC03 + AC01
Remarks	Application Software is the same as that of V-300 series	

Note:

- * The measurement range may vary by measurement conditions.
- Normal conditions: 20km visibility with slight shimmer.
- Good conditions: 40km visibility, overcast, no heat, no shimmer and moderate wind.
- * Reflector sheet: PENTAX genuine Reflector sheet (5cm x 5cm).
- * EDM Measuring time varies according to distance to be measured and conditions of the environment.

Ahead of Vision

Light is the element of seeing and it brings color into the world. Pentax has excelled in this medium for over 85 years. Since our beginning our engineers have brought forth innovative precision optical equipment year after year. Pentax Optics – photo cameras, medical endoscopes as well as industrial and measuring optics – are always ahead of their time regarding quality, precision and innovation.

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www.pentaxsurveying.com

DANGER
 LASER RADIATION - DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENT INTO SUNLIGHT
 620-690 nm/4.95mW 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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