



# Pentax R-300DNX Evolution Series

- Measure the point
- Capture the image
- Analyse and compare
- Print - it's easy!

***The R-300DNX is an advanced and innovative combination of Pentax' Total Station technology with Pentax's unique know-how of optical and imaging technology***

**Applications:**

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

# Total Station R-300DNX Series Specifications

\* Specifications are subject to change without notice.

Model		R-322DNX	R-323DNX	R-325DNX
Telescope	Magnification		30 x	
	Optical aperture		45mm (EDM45mm)	
	Resolving power		3"	
Focus			Manual focus	
Digital camera	Image capture device		1/2 inch CMOS	
	Effective pixels		3.1M pixels	
	LCD		1.5 inch TFT Color LDC (with Backlight), Approx. 120,000 pixel	
	File format Still		JPEG	
	Storage pixels Still		2048 x 1536, 1600 x 1200, 1280 x 960, 640 x 480 (pixel)	
	Storage media		Internal Memory (Approx. 32MB) - miniSD or SD Memory card	
	Image quality		☆☆☆ (S.fine), ☆☆ (fine), ☆ (Economy)	
	Interface port		USB2.0 (USB Mini-B Connector)	
	Focal length/View angle/F number		50mm/8.8° (Diagonal) / F 5.6	
EDM	Laser class		Class 3R/ Class 2 (Switchable)	
	Measurement range	Reflectorless	1.5m~270m (Long range mode)	
		Mini prism	1.5M~1100m (1600m) *(1)	
		Single element prism	1.5m~3400m (4500m) *(2)	1.5m~3000m (4000m) *(2)
		Reflector sheet	1.5m~600m (800m) *(3)	
	Accuracy	Prism, Reflector sheet	±(2+2ppm x D) mm	
		Reflectorless	±(5+2ppm x D) mm *(4)	±(5+3ppm x D) mm *(4)
Software			Power Topo Lite	
Internal Memory			18,600 points	16,000 points
Angle measurement	Method		Absolute Rotary Encoder	
	Accuracy (ISO 17123-3)	2"	3"	5"
	Compensator		Triple Axis	Dual Axis
Display	Display type		2 faces, 240 x 96 pixels, 20 alphanumeric 8 lines, Backlight	
Calendar clock			Available	
Plummet			Visible laser	
Base			Detachable	
Physical (including Battery)	Dimension		177(W) x 343(H) x 177(L)mm	
	Weight		5.7 kg	

\*(1), \*(2), \*(3): Values in ( ) are distance measurement range in good condition  
 \*(4): Over 200 to 270m : ±(7+10ppm x D)mm

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**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

**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



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 Japan Surveying Instruments Manufacturers' Association  
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 Ahead of Vision

\* Designs and specifications are subject to change without notice. - PENTAX 2006 - AS591320 - SURVEY01/1/10/06