



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX R-325NX. You'll find the answers to all your questions on the PENTAX R-325NX in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PENTAX R-325NX User guide PENTAX R-325NX Operating instructions PENTAX R-325NX Instructions for use PENTAX R-325NX Instruction manual PENTAX R-325NX

Reflectorless Measurement Mode by Pentax
Innovative Dual Mode EDM Measuring system

No more obstacles on the construction site with Pentax R-300X. Simply select the desired laser mode by striking one of the five function keys and you can measure objects up to 120 meters away without a prism.

Centralize data

The R-300X Total Station incorporates a clock allowing time and date data to be recorded in the jobsite, making it possible for the user to effectively manage job history.

- Four classes of angular accuracy: 2" (30gon), 3" (1gon), 5" (0.5gon) and 6" (0.3gon)
- 31 models
- two configurations
- minimum count of 1"
- RTI EVERY APPLICATION

On-board software PowerTopoLite

R-300X comes equipped with full-featured PowerTopoLite software that helps you handle your most difficult survey jobs. This powerful software package features an easy-to-use operator interface that guides you through all measuring jobs. PowerTopoLite's architecture provides open access to a number of powerful integrated functions to solve any advanced surveying application.

Reliability made by Pentax: Waterprotection IP56

The R-300X complies with the most stringent international industry standards. It is designed and engineered to ensure accuracy and reliability under the harshest work conditions, at the same time protecting your investment. The degree of protection against dust and water of the R-300X complies with the International Protection standard IP56 as defined following the standard IEC 60529.

Reliable Data Exchange with DL-01

Information is exchanged via a standard RS-232 cable. DL-01 software supports all upload and download between PENTAX surveying instruments and PCs. DL-01 allows direct exchange of data from any software. It operates under Windows™ 95, 98, 2000, S/NT and Windows CE. Data can be converted into the following formats: Pythagoras files, DXF, IS-Info, TDS, SDA, IAS separated ASCII, IZ, 3 User Definable Formats and various other accepted formats.

R-300X Series Specifications

	R-300X	R-315NX	R-325NX	R-335NX	R-315EX	R-325EX
Model	300X	315NX	325NX	335NX	315EX	325EX
Measuring range	120m	120m	120m	120m	120m	120m
Measuring accuracy	±2.0mm	±2.0mm	±2.0mm	±2.0mm	±2.0mm	±2.0mm
Measuring range (prism)	300m	300m	300m	300m	300m	300m
Measuring accuracy (prism)	±2.0mm	±2.0mm	±2.0mm	±2.0mm	±2.0mm	±2.0mm
Measuring range (prism)	300m	300m	300m	300m	300m	300m
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Measuring accuracy (prism)	±2.0mm	±2.0mm	±2.0mm	±2.0mm		

Manual abstract:

sheet: $\pm(2 + 10\text{ppm} \times D)\text{mm}$ / Reflectorless: $\pm(5 + 10\text{ppm} \times D)\text{mm}$ ("NX" models only) Minimum count Fine mode (0.1mm) Normal mode (1mm) Track mode (1cm) Measuring time Repeat meas. Normal: Prism, Ref.sheet 2.0sec. (1mm) Normal: Prism, Ref.sheet 1.2sec. (1mm) Track: Prism, Ref.sheet 0.4sec. (1cm) *Quick mode Initial meas. Normal: Reflectorless 2.3sec. (1mm) Normal: Prism, Ref. sheet 2.5sec. @@Circular 8' / 2mm Plummet Visible laser Accuracy $\pm 0.8\text{mm}$ (instrument height 1.5m) Intensity 10 steps Base Tribrach Shifting Fixed Working temperature $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ / $-4^{\circ}\text{F} \sim +122^{\circ}\text{F}$ Dust and Water protection IP56 Tripod thread 5/8 x 11 Instrument dimensions 177 (W) x 343 (H) x 177 (L) mm Inst. weight (with battery) 5.7 kg / 12.6 lbs 5.5 kg / 12.1 lbs Case dimensions 268 (W) x 442 (H) x 465 (H)mm Case weight 3.8 kg / 8 lbs Battery Varies by country (standard camcorder battery, Ni-MH rechargeable DC6V) Charger Input voltage AC 100~240V (AC01) Output voltage DC7.5 (BC03) Internal Memory Coordinates data 18.600 points 16.000 points 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). * Quick mode, which is effective only under Normal mode (1mm) setting, functions with Prism and Reflector Sheet. It is incorporated in all X series models and effective up to 500m. @@@@- Printed in Belgium - © PENTAX 2006 - ZAS591330 - SURVEY/01/12/06 - Four classes of angular accuracy 2" (0.6mgon); 3" (1mgon), 5" (1.5mgon) and 6" (1.9mgon) > 11 models > two configurations > minimum count of 1" > FIT EVERY APPLICATION 6" No On-board software PowerTopoLite R-300X comes equipped with full-featured PowerTopoLite software that helps you handle your most difficult survey jobs. This powerful software package features an easy-to-use operator interface that guides you through all measuring jobs. @@@@DL-01 allows direct exchange of data from any software.

It operates under Windows™ 95, 98, 2000 & NT and Windows XP. @@@@1 § 1040 CLASS IIIa LASER PRODUCT Laserclass IIIa, conform FDA 21 CFR Ch. 1 § 1040.620-690 nm/4.95mW max. Visit the R-300X series at: www.pentaxsurveying.com Your Official Pentax Dealer Japan Surveying Instruments Manufacturers' Association Member symbol of the Japan Surveying Instruments Manufacturers' Association representing the high quality surveying products. Ahead of Vision R-300X Optimal configuration, optimal productivity R-300X Key features · On-board memory: 18,600 points · Measurement time to prism/reflector sheet: 0.4 sec in Tracking Mode and 1.2 sec in Quick Mode setting · EDM accuracy: $\pm (2+2\text{ppm})$ on all models, except R-326EX $\pm (3+2\text{ppm})$ · Date clock on all non prism models · Reflectorless measuring up to 270m · Single prism measuring up to 4,500m (14,764 ft), with $\pm (2+2\text{ppm})$ accuracy · Four classes of angular accuracy 2" (0.6mgon); 3" (1mgon), 5" (1.5mgon) and 6" (1.9mgon) Applications: · Surveying · Construction · Industrial applications · Free Station · Stake Out · Reference Line / Arc · Area Calculation · Tie Distance · Height transfers · Inaccessible Points · Prismless Auto Focus EDM Reflective tapes may also be used as targets · Auto Focus [World First Triple Focusing System] · World First Dual Prismless Mode EDM [90/270m] · Telescope with 30x magnification · Visible Laser pointer · Automatic Atmospheric Correction · Indicator LED for Laser beam · Ni-MH Battery With the compact standard camcorder Ni-MH battery (rechargeable DC6V), the R-300X user can go anywhere to measure for up to a whole working day (6 - 12 hours) without having to depend on a power source. @@ · Electronic vial easy-to-operate through function keys. · Incorporated date clock for more efficient job management. @@@@This makes the Pentax R-300X Total Station a versatile measuring system that brings you and your customers important cost savings. These features, together with a measurement time of 0.4 sec in tracking mode and 1.

2 sec in quick mode, contribute to an excellent productivity of Pentax R-300X total stations. Standard configuration · Plumb Bob · A set of tools · Rain cover · Carrying case · Manual · Battery pack * · Battery charger * optional accessories SB-12 SC-6 Simple operation All functions are initiated from just five keys. A function that keeps the operation intuitive and logical. @@2,000 measuring points (XYZ) can be recorded in one job file. The user can make up to 20 job files. · Highest standard in Waterprotection IP56 (following the IEC 60529 standard). @@On other models the 2nd display (TA06) is optional. .



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