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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX R-326EX. You'll find the answers to all your questions on the PENTAX R-326EX 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-326EX
User guide PENTAX R-326EX
Operating instructions PENTAX R-326EX
Instructions for use PENTAX R-326EX
Instruction manual PENTAX R-326EX



TOTAL STATION R-300X^{SERIES}

QUICK REFERENCE GUIDE

POWERTOPOLITE
FOR R-300X SERIES

R-322NX	R-322EX
R-323NX	R-323EX
R-325NX	R-325EX
R-335NX	R-335EX
R-315NX	R-315NX
	R-326EX



PENTAX Industrial Instruments Co., Ltd.

2-5-2 Higashi-Oizumi
Nerima-Ku, Tokyo 178-8555, Japan
Tel. +81 3 5905 1222
Fax +81 3 5905 1225
E-mail: international@pllc.pentax.co.jp
Website: www.pentax.co.jp/pllc/survey
www.pentaxsurveying.com

PENTAX
Ahead of Vision



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Manual abstract:

, Ltd. 2-5-2 Higashi-Oizumi Nerima-Ku, Tokyo 178-8555, Japan Tel. +81 3 5905 1222 Fax +81 3 5905 1225 E-mail: international@piic.pentax.co.jp
Website: www.pentax.co.jp/piic/survey www.pentaxsurveying.com

Ahead of Vision Total Surveying Solutions Electronic Total Station Quick Reference Guide PowerTopoLite For R-300X series Operating Procedure R-322NX, R-323NX, R-325NX, R-335NX, R-315NX, R-322EX, R-323EX, R-325EX, R-335EX, R-315EX, R-326EX PENTAX Industrial Instruments Co., Ltd. CONTENTS Instruction Manuals Precautions regarding safety Operational Procedure 1 Starting Special Function 2 Creating / Selecting a Job File 3 Input a Known Point Coordinate 4 Rectangular Coordinate Measurement 4.1 4.2 4.

3 4.4 4.5 Station Point Setup Orientation (Station Point H. @@@@Angle Setup) Stakeout Point Setup Stakeout Measurement 18 18 18 19 8 Stake Out (Point to Line) 8.1 8.

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CONTENTS >> 9 Traverse Measurement 9.1 9.2 9.3 9.4 Measurement at the Start Point Measurement at a Corner Point To Finish the Traverse Measurement Traverse Calculation 22 23 24 25 25 10 Cogo Calculation Parameters and Output 26 27 11 Area Calculation 12 3D Surface and Volume Calculation 13 REM (Remote Element Measurement) 14 RDM (Remote Distance Measurement) 15 VPM (Virtual Plane Measurement) 16 Changing Preference Preference List 28 28 29 30 30 31 32 6 INSTRUCTION MANUALS Quick Reference Guide is intended to provide a quick reference in the field. For ease of use in the field, the following Quick Reference Guide booklets are provided in the carrying case.

1. Basic procedure 2. PowerTopoLite for R-300X series, Operating procedure The complete instruction manuals are contained on the CD that is attached to each R-300X. PRECAUTIONS REGARDING SAFETY Before using this product, be sure that you have thoroughly read and understood the instruction manual that is included on the attached CD-R to ensure proper operation. OPERATIONAL PROCEDURE The operational procedure in this guide is described based on the default software parameter settings (preferences). Changing preferences may cause a different operational procedure. @@@@Starting Special Function or ESC MODE A SCREEN MODE F5 S. FUNC F1 POWER TOPO LITE MAIN MENU 2. @@@@PC list can be also transferred from a computer. For more detail, refer to the instruction manual of PowerTopoLite.

@@select "PointCodeList" job and add a PC as a new Rect.Coord.Data. 4. Rectangular Coordinate Measurement POWER TOPO LITE MAIN MENU MEAS F2 ENT STATION POINT SETUP 4.

1 Station Point Setup To select from the memory: LIST F2 select the point by FIND PN F2 F4 ENT ACCEPT F5 H. ANGLE SETUP 10 Or to input the station point information: STATION POINT SETUP ENT input Point Name by ESC TO 123 F1 F5 , 0 9 DEF . ENT repeat to input value to quit SAVE F1 or ACCEPT F5 ENT H. ANGLE SETUP input PC (point code) NOTE: The input item (cursor position) may be selected by F3 , ENT F4 To input PC (point code): move cursor to PC ENT select a PC from the list by x2 input a new PC by using , 0 ENT F1 F4 TO 123 F1 F5 ENT 9 DEF . NOTE: Input items are PN (point name), X, Y, Z, IH (instrument height), and PC (point code).

If the input PN already exists in the memory, then the corresponding point information (coordinate & point code) is displayed in the screen. The result of Free Station, prior to stakeout, is automatically set in each field of Station Setup. 4.2 Orientation (Station Point H.Angle Setup) To input a given angle: INPUT F2 input value by using 0 9 DEF . ENT x2 MEASUREMENT SCREEN Or to set the angle 0°: 0 SET F1 x2 ENT MEASUREMENT SCREEN Or to calculate by the

Back Sight Point: BSP F5 input value or select from the list ENT MEASUREMENT SCREEN LIST F2 ENT ACCEPT F5 aim Back Sight Point 11 4.3 Measurement To select the Target type: PAGE F5 x2 repeat TARGET F2 until the desired target type is selected PAGE F5 NOTE: You can check the selected target type at the left side of the Battery mark in the top line of the screen. To measure: Or to start tracking: MEAS F1 MEAS F1 x2 PAGE F5 NOTE: EDM measurement mode can be changed by EDM F1 x2 select and change the EDM mode To input the point information: EDIT F4 move cursor by input values by using F3 , F4 TO 123 , , ENT F1 F5 ESC 0 9 DEF . ACCEPT F5 ENT RETURN TO THE MEASUREMENT SCREEN ENT repeat to input value to quit input point code To save the point information: SAVE F2 (next measurement) Or to measure and save: ME/SAVE F3 (next measurement) NOTE: the Point number is automatically incremented or decremented to make rapid continuous measurements possible. 12 4.

4 Offset Measurement For Radial Offset (the horizontal distance offset along the line of measurement): MEASUREMENT SCREEN PAGE F5 OFFSET F2 ENT input value by using RETURN TO THE MEASUREMENT SCREEN 0 9 DEF . ENT ESC ACCEPT F5 For Tangential Offset: MEASUREMENT SCREEN PAGE F5 OFFSET F2 F4 x3 ENT ENT input value by using , 0 9 DEF . RETURN TO THE MEASUREMENT SCREEN For Distance Offset (slope distance): MEASUREMENT SCREEN PAGE F5 OFFSET F2 F4 x2 ENT ENT input value by using , 0 9 DEF . ESC ACCEPT F5 RETURN TO THE MEASUREMENT

SCREEN NOTE: The Offset values are cleared once the measurement is saved. 4.5 Remote measurement To enter the Remote mode: MEASUREMENT SCREEN PAGE F5 REMOTE F1 x2 PAGE F5 ACCEPT F5 ENT x2 MEAS F1 SAVE F2 RETURN TO THE MEASUREMENT VALUES ARE UPDATED BY TURNING THE TELESCOPE EDIT F4 Input PN, PH ESC (next measurement) input PC or MEASUREMENT SCREEN MEAS F1 PAGE F5 ESC REMOTE F1 ACCEPT F5 ENT x2 REMOTE MODE MEASUREMENT VALUES ARE UPDATED BY TURNING THE TELESCOPE EDIT F4 Input PN, PH SAVE F2 (next measurement) input PC 13 NOTE: Remote values are calculated based on the assumption of the reference plane. Three types of the reference plane are available in PowerTopoLite; Cylindrical surface, Fixed plane (default) and Rotated plane. @@@@The input item (cursor position) may be selected by F3 , ENT F4 14 5.2 Orientation (Station Point H. @@@@To proceed to the next point: ENT ADD F1 KNOWN POINT SETUP Repeat "6.

1 Known Point Setup" and "6.2 Measuremenk in the top line of the screen. 21 To measure in Tracking mode: MEAS F1 x2 (move the target to the desired position) MEAS F1 To quit measurement (position the target accurately) To confirm the position of the stake: PAGE F5 RECT.



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@@@@@@@@@@@@@@@@. Do not escape from the MEASURE screen. · The same PN should not be used in one Job.

And the PN can not be overwritten in the traverse. · The same traverse route can not be calculated again. @@@@For example, change "T1" to "T1-1" etc. Open traverse: The closing errors are not calculated.No need to end the measurement by pressing ENT .

9.4 Traverse Calculation To Start Fixed traverse calculation: TRAVERSE MENU F4 x2 ENT NOTE: To select CLOSE TRAVERSE CALC.: To select OPEN TRAVERSE CALC.: Start Point Coordinate setup: LIST F2 F4 x3 x4 F4 select the point by FIND PN F2 F4 ENT ACCEPT F5 END POINT SETUP or to input the known coordinate; ENT input Point Name by ESC TO 123 F1 F5 ACCEPT F5 , 0 9 DEF . ENT input the next value or to quit END POINT SETUP 25 End Point Coordinate setup: the same operation as in the above. NOTE: The End Point Coordinate Setup is required only in the fixed traverse. Result of Traverse Calculation: To see the result of each corner point: To see all points in order: To save all results: F1 or or F2 F3 F4 ACCEPT F5 TRAVERSE MENU 10.

@@@Distance of the intersect point from the SP of the line Coordinate of the offset point 8 Point Distance Offset SP (Start point of the line) EP (End point of the line) DI (Distance on the line from SP) OD (Offset distance from the line) SP (Start Point of the screen LARGE CHARACTER "AIM" message ON/OFF ON Dist. Meas.mode for 1st MEAS CONT, TRACK SHOT, TRACK CONT MEAS key Dist.

Meas.mode for 2nd TRACK SHOT, MEAS CONT, MEAS SHOT MEAS key 3 times, 5 times, INPUT 01-99 times -9999.999m - +9999.999m 0.00000001 - 1.99999999 ON 34 PENTAX Industrial Instruments Co., Ltd. 2-5-2 Higashi-Oizumi Nerima-ku, Tokyo 178-8555, Japan Tel. +81 3 5905 1222 Fax +81 3 5905 1225 E-mail: international@piic.pentax.

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