

TOTAL STATION





MAIN FEATURES



RDM8 DIS.TECH is a unique and innovative EDM technology of RUIDE, which enables R2 Pro to deliver an accurate and long non-prism distance range up to 800m within stunningly 0.3s measuring speed. 4km distance with prism can be easily achieved with a high precision of 2mm+2ppm.



R2 Series is the first total station which is equipped with auto sensor of temperature and pressure. **ATMOsense** system can detect the surrounding temperature and air pressure then calculate the PPM value and correct the distance measuring result in real time.



R2 Pro is equipped with the Guide Light on the EDM. A red and yellow LED will flash by turns, assisting the pole man to move the prism to the right position during stake-out process.



A sophisicated liquid-electronic compensator on 2 axis ensures a stable compensation within a tilt range of 4'.



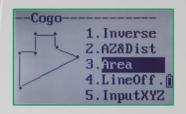
Various options for data transfer are available: SD-card, mini-USB, and RS232. Internal memory is capable to store up to 20,000 points. External storage can be extended to 2GB.



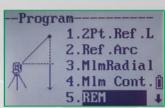
IP66 outstanding water and dust proof ensures a overall protection to the total station in any tough environments.



SOFTWARE



COGO is a suite of programs used in civil engineering for solving coordinate geometry problems. It employs some basic types of elements such as points, spirals, lines, curve, etc. to calculate the inverse, azimuth and distance, area, line and offset.



R2 Series provides various surveying programs which are usually used in survey job, including 2-point reference line, reference arc, measuring the HD, VD and SD between 2 points, remote elevation measurement, measuring distance and offset values on vertical plane, measuring distance and offset values on the slope plane, and road design.



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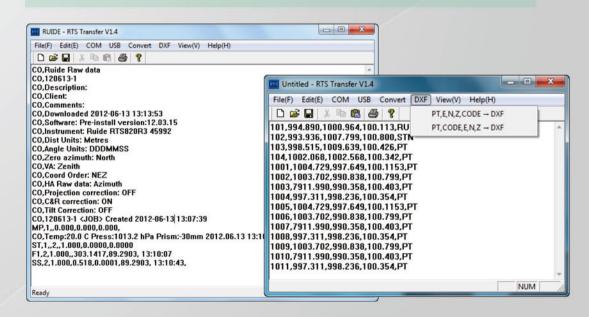


RTS TRANSFER

The transfer software RTS TRANSFER provides a complete and easy-to-use solution for data exchange between the total station and the computer, as well as transferring to DXF format.

Detailed raw data and coordinates data can be downloaded to the computer, and you can also edit and upload coordinates data and road data to the total station.

After you download the coordinates data to the computer, you can post process the data like changing the element order, and convert it to DXF file which can be used in CAD.



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TELESCOPE	
Length	154mm
Objective Lens Diameter	Telescope: 45mm Distance Meter: 50mm
Magnification	30X
Image	Erect
Field of View	1°30′
Resolving Power	3"
Mini. Focus	1.0m
DISTANCE MEASUREMENT	
Single Prism	4000m ^{*1}
Non-Prism	400m ^{*2} 800m ^{*2}
Accuracy -Prism Mode	±(2mm+2ppm x D)m.s.e. '3
-Non-Prism Mode	±(3mm+2ppm x D)m.s.e. *3
Measuring Time	Fine: 0.7s, Normal: 0.5s Fine: 0.3s, Normal: 0.2s
Meteorologic Correction	ATMOSense (Auto Sensing)
Prism Constant	Manual Input
ANGLE MEASUREMENT	•
Method	Absolute Encoding
Detecting System	H: 2 sides, V: 2 sides
Min. Reading	1"/5"
Accuracy	2"
Diameter of Circle	79mm
Vertical Angle 0°	Zenith 0°/Horizontal: 0°
Unit	360°/400gon/6400mil
DISPLAY	300 /400g0II/0400IIIII
Display Unit	Graphic LCD 160 X 90 Dots with White Backlight
No.of Unit	2 sides
Keyboard	Alphanumeric Key
TILT CORRECTION	Albuquiniene vei
Tilt Sensor	Dual Axis
Method	Liquid Electric
ACCOUNT AND	±4′
Range Setting Unit	
Setting Unit	1"
LEVEL SENSITIVITY	20// /2
Plate Level	30"/2mm
Circular Level	8'/2mm
OPTICAL PLUMMET (OPTIONAL: INTERN	Carlos Americanos Carlos Carlo
Image	Erect
Magnification	3X
Focusing Range	0.3m ~∞
Field of View	5°
DATA STORAGE & INTERFACE	
Internal Memory	>10,000 points or > 20,000 coordinates
Data Interface	RS 232/SD-card/Mini-USB
GENERAL	
Guide Light	No Yes
Weight & Dimension	5.4kg, 340mm(H) X 160mm(W) X 150mm(L)
Working Temperature	-20°C ~ +50°C
Battery Type	Rechargeable Li-on Battery 3000mAh
Battery Voltage	DC 7.4V

STANDARD PACKAGE COMPONENTS

Carrying Case X 1 Charger X 1 Battery X 2 Multi-port Cable X 1 User Manual X 1 Plumb X 1 Adjusting Pin X 1 SD-Card X 1 Mini-USB Cable X 1

Screw Driver X 1 Wiping Cloth X 1 Lens Cover X 1 Rain Cover X 1 Carrying Belt X 2 Reflecting Sheet X 1 Warranty Card X 1 Transfer Software CD X 1

OPTIONAL ACCESSORIES







Triple Prism System TPS30



Aluminum Tripod ATS-1

Prism Pole & Prism System TPS107















^{*1.} Good condition: No haze, visibility about 40km, overcast, no scintillation.

22. With Modak Grey Card white: side 900's reflectivity).

3. 0 stands for distance.

4. Typically, under good condition, non-prism measuring time may differ according to measuring target, observation situatives. According to POA21.CFR Ch. 1 § 1040.