SPECIFICATION

	RTS-822A	RTS-825A	RTS-822R[5]	RTS-825R[5]
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	2000m [*1]		5000m [*1]	
Non-Prism	N/A		500m [*2]	
Accuracy -Prism Mode	±(2mm+2ppm x D)m.s.e. [*3]			
-Non-Prism Mode	N/A		±(3mm+2ppm x D)m.s.e. [*3]	
Measuring Time	Fine: 1.2s, Normal: 0.7s		Fine: 0.3s, Normal: 0.2s [*4]	
Meteorologic Correction	Manual Input		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″	5″	2″	5″
Diameter of Circle	79mm			
Vertical Angle 0°	Zenith 0°/Horizontal: 0°			
Unit	360°/400gon/6400mil			
DISPLAY				
Display Unit	Graphic LCD 160 x90 Dots with White Backlight			
No.of Unit	2 sides			
Keyboard	Alphanumeric Key			
TILT CORRECTION				
Tilt Sensor	Single Axis		Dual Axis	
Method	Liquid Electric			
Range	±3′		±4′	
Accuracy	1″			
LEVEL SENSITIVITY				
Plate Level	30″/20mm			
Circular Level	8′/2mm			
OPTICAL PLUMMET (OPTIONAL: INTERNAL LASER PLUMMET)				
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		RS 232/SD-card/Mini-USB	
GENERAL				
Laser Class [*5] -EDM	Class II		Class IIIA	
-Laser Plummet	Class II			
Working Temperature	-20℃ ~ +50℃			
Battery Type	Rechargeable Ni-H Battery			
Battery Voltage	DC 6V			
Working Time	8h		16h	

*1. Good condition: No haze, visibilityabout 40km, overcast, no scintillation.
*2. With Kodak Grey Cardwhite side (90% reflectivity).
*3. D stands for distance.
*4. Typically, under goodcondition, non-prism measuring time maydiffer according to measuringtarget, observation situations, andenvironmental conditions.
*5. According to FDA21 CFRCh.1 §.1040.

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 (for RTS-820R[5])
Mini-USB Cable X 1 (for RTS-820R[5])
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

Single Prism System
TPS11

Triple Prism System
TPS30

Wooden Tripod ATS-2

Aluminum Tripod ATS-1

Prism Pole & Prism System TPS107

CE

ISO 9001:2008

Dealer Info

RUIDE SURVEYING INSTRUMENT CO.,LTD.
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http:// www.ruideinstrument.com
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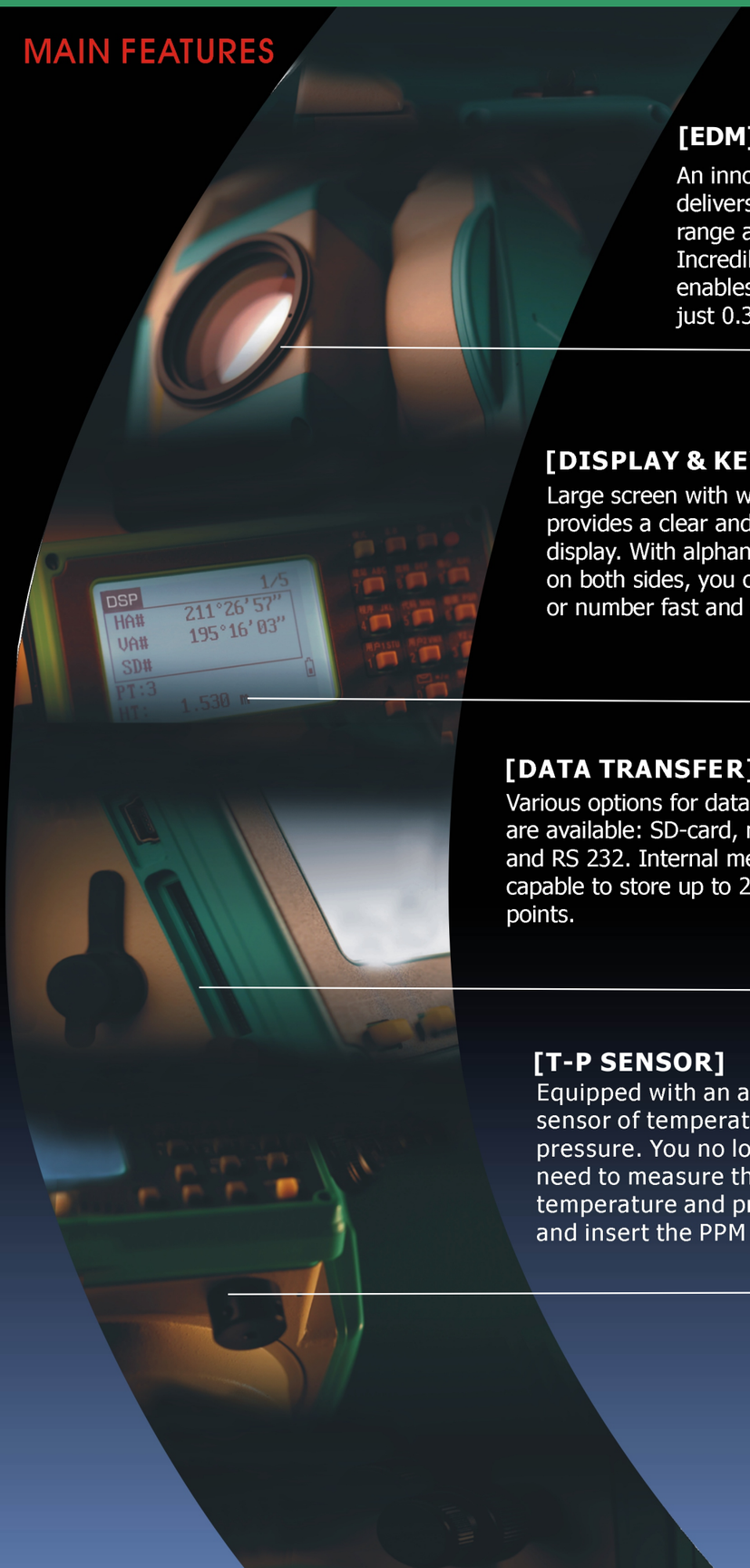
TOTAL STATION

RTS-820 series

MAIN FEATURES



[EDM]

An innovative EDM technology delivers up to 500m non-prism range and 5km in prism mode. Incredibly fast measuring speed enables you record a point in just 0.3 seconds.

[DISPLAY & KEYBOARD]

Large screen with white backlight provides a clear and comfortable display. With alphanumeric keyboards on both sides, you can type a word or number fast and easily.

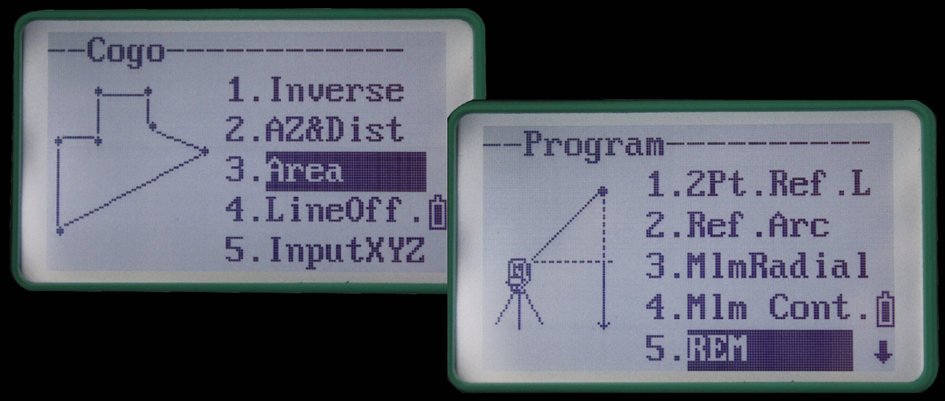
[DATA TRANSFER]

Various options for data transfer are available: SD-card, mini-USB and RS 232. Internal memory is capable to store up to 20,000 points.

[T-P SENSOR]

Equipped with an accurate sensor of temperature and pressure. You no longer need to measure the temperature and pressure and insert the PPM values.

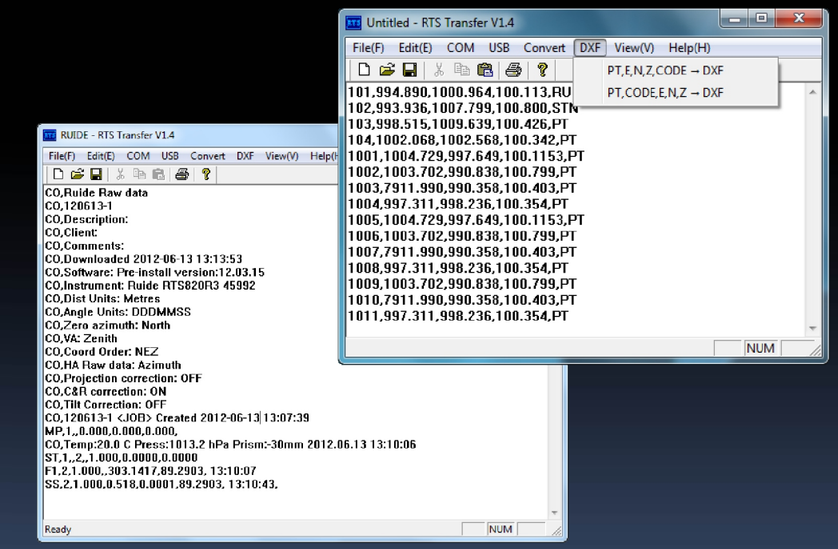
POWERFUL PROGRAM



[COGO]
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.

[PROGRAM]
RTS-820 series provides various surveying programs which are normally used in the 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.

DATA TRANSFER SOFTWARE



[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 stations.

After you download your 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 AutoCAD.