SPECIFICATION

	RTS-822A	RTS-825A	RTS-822R⁵	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						
DISTANCE MEASUREMENT								
Single Prism	20	00m ^{*1}	500	0m *1				
Non-Prism	N	/A	500)m *2				
Accuracy -Prism Mode		±(2mm+2)	opm x D)m.s.e. *³					
-Non-Prism Mode	N	/A		m x D)m.s.e. *3				
Measuring Time	Fine: 1.2s,			, Iormal: 0.2s ^{*4}				
Meteorologic Correction				ensing				
Prism Constant		Man	ual Input					
ANGLE MEASUREMENT								
Method		Absolut	te Encoding					
Detecting System			es, V: 2 sides					
Min. Reading			1″/5″					
Accuracy	2″	5″	2″	5″				
Diameter of Circle		79	Эmm					
Vertical Angle 0°		Zenith 0°/	Horizontal: 0°					
Unit		360°/400	gon/6400mil					
DISPLAY								
Display Unit	Gr	aphic LCD 160 x90 D	ots with White Backli	ght				
No.of Unit		Graphic LCD 160 x90 Dots with White Backlight 2 sides						
Keyboard		Alpha	numeric Key					
TILT CORRECTION								
Tilt Sensor	Singl	e Axis	Dual	Axis				
Method	Liquid Electric							
Range	1	±3′ ±4′						
Accuracy			1″	· 				
LEVEL SENSITIVITY								
Plate Level		30'	//20mm					
Circular Level		8/2mm						
OPTICAL PLUMMET (OPTIONAL: I	NTERNAL LASER P		,					
Image			Erect					
Magnification			3X					
Focusing Range		0.3	3m ~ ∞					
Field of View			5°					
DATA STORAGE & INTERFACE								
Internal Memory		>10.000 points or 3	> 20,000 coordinates					
Data Interface	RS	d/Mini-USB						
GENERAL	NO .		23435 Cu	.,				
Laser Class *5 -EDM	Cla	iss II	Class	IIIA				
-Laser Plummet	Cla		ass II					
Working Temperature								
Battery Type	-20°C ~ +50°C							
Battery Voltage		Rechargeable Ni-H Battery						
		DC 6V 16h						

STANDARD PACKAGE COMPONENTS

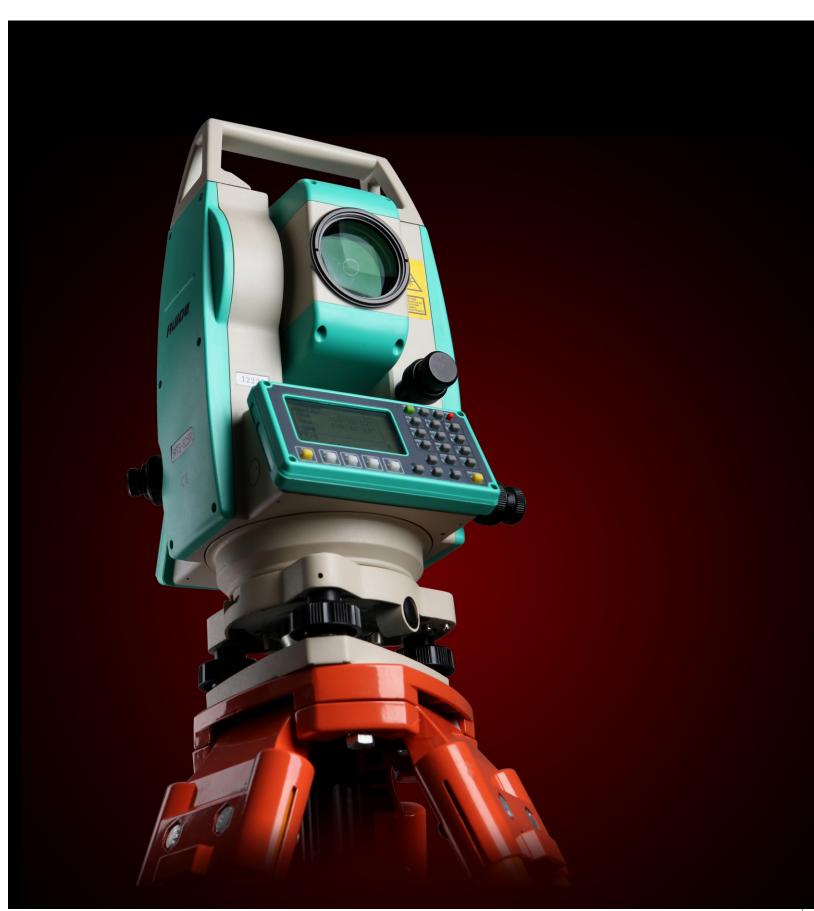
Carrying Case X 1 Charger X 1 Battery X 2 Multi-port Cable X 1 User Manual X 1 Plumb X 1 Adjusting Pin X 1 SD-Card X 1 (for RTS-820R⁵) Mini-USB Cable X 1 (for RTS-820R⁵)

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

Triple Prism System

TPS30

TOTAL STATION RTS-820 series



Good condition: No haze, visibilityabout 40km, overcast, no scintillation.
With Kodak Grey Cardwhite side (90% reflectivity).
D stands for distance.
A trands for distance.
Fynically, under goodcondition, non-prism measuring time maydiffer according to measuringtarget, observation situations, andenvironmental conditions.
Koroding to FDA21 CFRC.
A04.

RUIDE

RUIDE SURVEYING INSTRUMENT CO., LTD.

Add: 2/F, Surveying Building, No.26 Ke Yun Road, 510665 Guangzhou, China Tel: +86-20-23380961 Fax: +86-20-23380962 http:// www.ruideinstrument.com E-mail: export@ruideinstrument.com support@ruideinstrument.com

Dealer Info

OPTIONAL ACCESSORIES

Single Prism System TPS11



Aluminum Tripod ATS-1







MAIN FEATURES

HA#

UA#

195°16'03'

POWERFUL PROGRAM

[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.

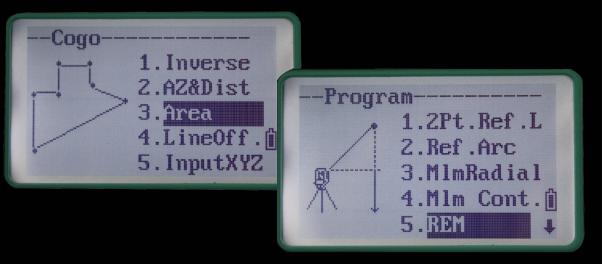
[DATA TRANSFER]

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.





[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

RUIDE - RTS Transfer V1.4 File(F) Edit(E) COM USB Convert DXF View 🗅 🚅 🖬 🐰 🏷 🖻 💼 🎒 📍 CO, Ruide Raw data CO.120613-1 CO,Description CO,Client: CO.Comments LUC comments: CO, Downloaded 2012-06-13 13:13:53 CO, Software: Pre-install version:12.03.15 CO, Instrument: Ruide RTS820R3 45992 CO, Dist Units: Metres CO, Angle Units: DDDMMSS CO, Zero azimuth: North CO VA: Zenith CO,VA: Zenith CO,Coord Order: NEZ CO,HA Raw data: Azimuth CO,Projection correction: OFF CO,C&R correction: ON CO.Tilt Correction: OFF CO,120613-1 <JOB> Created 2012-06-13|13:07 MP,1,,0.000,0.000,0.000, CO,Temp:20.0 C Press:1013.2 hPa Prism:-30m ST.1..2..1.000.0.0000.0.0000 F1,2,1.000,,303.1417,89.2903, 13:10:07 SS.2,1.000,0.518,0.0001,89.2903, 13:10:43,

[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.



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