SPECIFICATION

	RTS-822A	RTS-825A	RTS-822R⁵	RTS-825R⁵	- Carrying Case X 1
TELESCOPE					Charger X 1
Length	154mm				Battery X 2
Objective Lens Diameter	Telescope: 45mm Distance Meter: 50mm			Multi-port Cable X 1 User Manual X 1	
Magnification	30X			– Plumb X 1	
Image	Erect			Adjusting Pin X 1	
Field of View	1°30′			SD-Card X 1 (for RTS-820R ⁵) Mini-USB Cable X 1 (for RTS-820	
Resolving Power	3'				
Mini. Focus		1	0m		
DISTANCE MEASUREMENT					OPTIONAL ACCES
Single Prism	200	2000m ^{•1} 5000m ^{•1}		_	
Non-Prism	N/)m *2	_
Accuracy -Prism Mode		±(2mm+2	opm x D)m.s.e. *³		_
-Non-Prism Mode	N/	A	±(3mm+2pp	m x D)m.s.e. ^{*3}	
Measuring Time	Fine: 1.2s, N	Fine: 1.2s, Normal: 0.7s Fine: 0.3s, Normal: 0.		Normal: 0.2s ^{*4}	
Meteorologic Correction	Manual	Input	Auto Se	ensing	
Prism Constant		Man	ual Input		
ANGLE MEASUREMENT					
Method		Absolut	e Encoding		
Detecting System	H: 2 sides, V: 2 sides				
Min. Reading		1	L″/5″		Single Prism System
Accuracy	2″	5″	2″	5″	– TPS11
Diameter of Circle		79	Əmm		_
Vertical Angle 0°		Zenith 0°/	Horizontal: 0°		_
Unit		360°/400	gon/6400mil		_
DISPLAY					
Display Unit	Gra	phic LCD 160 x90 De	ots with White Backli	ght	
No.of Unit		2 sides			- / \ //
Keyboard	Alphanumeric Key				
TILT CORRECTION					-
Tilt Sensor	Single	Axis	Dual	Axis	
Method		Liquid Electric			- 7 /
Range	±3	3'	±	4'	-
Accuracy			1″		
LEVEL SENSITIVITY					- Wooden Trip
Plate Level		30″	/20mm		Aluminum Tripod ATS-1
Circular Level			/2mm		_
OPTICAL PLUMMET (OPTIONAL:	INTERNAL LASER PL		,		-
Image			rect		
Magnification			3X		_
Focusing Range		0.3	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		rd/Mini-USB		
GENERAL		-		.,	
Laser Class * -EDM	Clas	s II	Class	IIIA	
-Laser Plummet	Clas		ass II		_
Working Temperature					DANGER
Battery Type	-20°C~ + 50°C				DANGER
Battery Voltage	Rechargeable Ni-H Battery			DO NOT Stare Into Beam or View Directly with Optical Instruments	
	DC 6V				
Working Time	8h 16h			LASER TYPE A SOMW BOARD WARELENGTH	

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)

OPTIONAL ACCESSORIES

en Tripod ATS-2

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

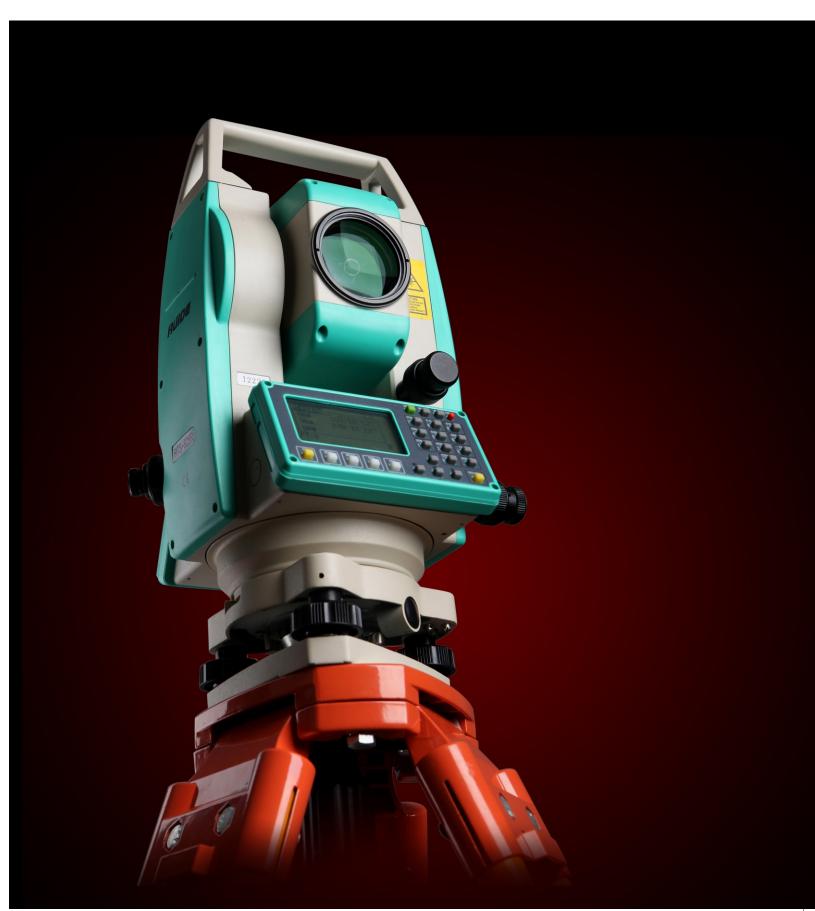
TPS30

Prism Pole & Prism System TPS107

9001:2008

Laser Radiat II 0.20mW 780nm

TOTAL STATION RTS-820 series



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

Dealer Info

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



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.

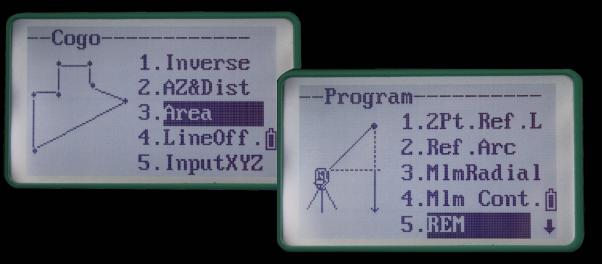
[DATA TRANSFER]

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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	1004,997.311,998.236,100.354,PT				
	1005,1004.729,997.649,100.1153,PT				
	1006,1003.702,990.838,100.799,PT				
	1007,7911.990,990.358,100.403,PT				
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