**RTS-820 Total Station** 

## RTS-820/820L/820R/820R3SERIES

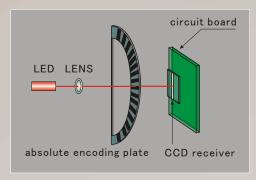


RTS-820
Series
Total Station

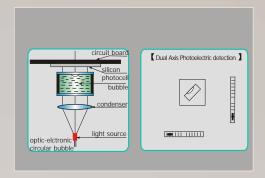
Extend your memory with a SD card. Download data via USB interface.

Reflectorless Distance Range: 300m

### **NEW FEATURES**



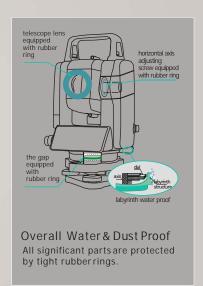
Absolute Encoding manual initialization free, angle measurement accuracy and reliability improved.



**Dual Axis Compensation** 

## **Specifications**

	RTS-822A/825A	RTS-822R+/825R+	RTS-822L/825L	RTS-822R <sup>3</sup> /825R <sup>3</sup>	
MEASURING RA					
Non-Prism	2.0 km	5.0 km	5.0 km	5.0 km	
Single Prism	_	200 m		300 m	
DistanceMeasureme	nt Accuracy	±(2+2	PPM)	4	
DigitalDisplay		Max: 99999999.999	Min: 1mm		
MeasuringTime	Fine:1.2s,Tracking:0.7s	Fine:1.2s,Tracking:0.7s Fine:0.7s, Tracking:0.7s			
Measurement Syster	t System Basic frequency:60MHZ				
Meteorologic Correc	tion		arameteradjusted auton	natically	
Atmospheric Refract	ion and EarthCurvature (	Correction Input the pa	arameter adjusted autor	natically (k=0.14/0.2)	
PrismConstant		Input the p	arameteradjusted autor	natically	
Temperatureand Air	pressureCorrection	Manual inpu	ut	Automatical	
Angle Measure	ment				
Measuring Method		absolute	encoding		
Raster Disk Diameter 79mm					
Min. Reading 1" /5" optional					
Accuracy	2" or 5"				
Detection Method	Horizontal: Dual Vertical: Dual				
Measuring Unit	360° /400 gon/6400mil Selectable				
Vertical Angle 0°	Zenith 0° / Horizontal 0° Selectable				
Telescope					
Image		Ere	ect		
Length	154mm				
Effective Aperture	Telescope: 45mm Distance meter: 50mm				
Magnification	30X				
Field of View	1° 30′				
Resolving Power	3"				
Min. Focussing Dist	ance	1	m		
Auto Vertical C	ompensator				
System		Liquid-electric detection/plate vial Dual axis photoelectric d		Dual axis photoelectric detection	
Range		±3' ±4'			
Accuracy			1"		
Level Sensitivi	ty				
Plate Vial		30"	/20mm		
Circular Vial	Vial 8' /2mm				
Optical Plumm	et				
Image			Erect		
Magnification	3X				
Focusing Range	0.3m~∞				
Field of View	ew 5°				
Other					
Mini B Port	NO	NO	YES	YES	
Memory card	NO	NO	YES	YES	
Display Type	Du	al sides, alphanumeric ke	yborad,LCD, Matrix grap	ohic	
Operation Environ	ment	−20° ~	+50°		
Power Supply			Ni-H battery		
Voltage			6V		
Non-stop Operatin					



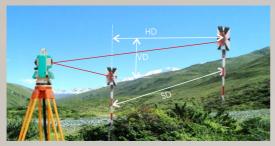


#### Sensor of Temperature & Pressure

Take the surrounding temperature and pressure automatically and implement the auto compensation of PPM. Higer accuracy is what we are after.

# RTS-880R/820 Series Total Station Abundant Surveying Programs

Remote Distance Measurement



Remote Elevation Measurement



Stake-Out



Reference Line & Arc



Multiple-Point Resection



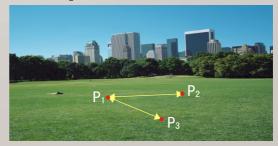
Area(Plan) and Circumference Calculation



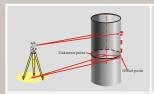
Road Design And Stake-Out



COGO Programme



### Offset Measurement



Angle Offset



Distance Offset



Plane Offset



Column Offset