

SPECIFICATION

	RTS-822A/825A	RTS-822R+/825R+	RTS-822L/825L	RTS-822R ³ /825R ³
MEASURING RANGE				
Single Prism	2.0 km	5.0 km	5.0 km	5.0 km
Non-Prism (white)	---	200 m	---	300 m
Sheet	---	800 m	---	800 m
Distance Measurement Accuracy	±(2+2PPM)			
Digital Display	Max: 99999999.999 Min: 1mm			
Measuring Time	Fine:1.2s,Tracking:0.7s	Fine:1.2s,Tracking:0.7s	Fine:0.7s, Tracking:0.7s	
Measurement System	Basic frequency:60MHZ			
Meteorologic Correction	Input the parameter adjusted automatically			
Atmospheric Refraction and Earth Curvature Correction	Input the parameter adjusted automatically (k=0.14/0.2)			
Prism Constant	Input the parameter adjusted automatically			
Temperature and Air pressure Correction	Manual input			Automatical
Angle Measurement				
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	Erect			
Length	154mm			
Effective Aperture	Telescope: 45mm Distance meter: 50mm			
Magnification	30X			
Field of View	1° 30'			
Resolving Power	3"			
Min. Focussing Distance	1m			
Auto Vertical Compensator				
System	Liquid-electric detection/plate vial			Dual axis photoelectric detection
Range	±3'			±4'
Accuracy	1"			
Level Sensitivity				
Plate Vial	30"/2mm			
Circular Vial	8'/2mm			
Optical Plummet (optional - Internal laser plummet)				
Image	Erect			
Magnification	3X			
Focusing Range	0.3m~ ∞			
Field of View	5°			
Other				
Port: USB	No	No	yes	yes
Memory card	No	No	yes	yes
Display Type	Dual sides, alphanumeric keyboard, LCD, Matrix graphic			
Internal Memory	10000 points			
Operation Environment	-20°~+50°			
Power Supply	Rechargeable Ni-H battery			
Voltage	DC 6v			
Non-stop Operating Time	8 hours		16 hours	
Size & Weight	160mm×150mm×340mm		5.4Kg	

RTS-820A/820L/820R+/820R³ SERIES TOTAL STATION



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NEW FEATURES

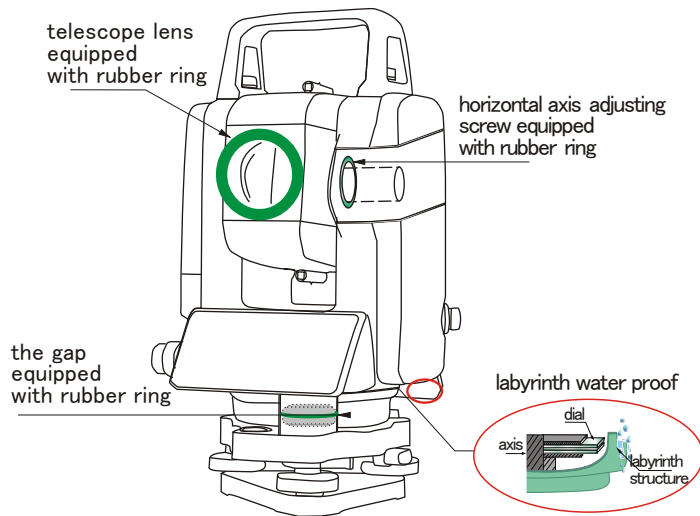


Reflectorless Measurement



Up to **300m** reflectorless distance measurement range, achieved by the leading edge of new EDM technology. Get what you want wherever you shoot.

Overall Water & Dust Proof



All significant parts are protected by tight rubber rings. With Waterproof Grade IP66, you are free to operate your job no matter in rain or desert.

Sensor of Temperature & Pressure



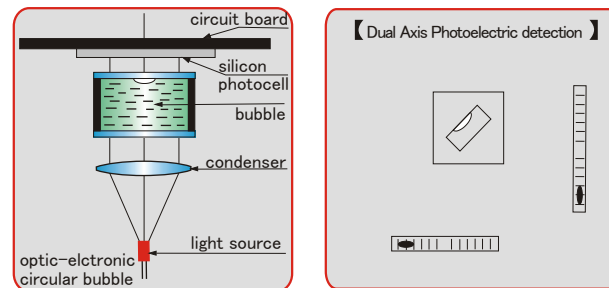
Take the surrounding temperature and pressure automatically and implement the auto compensation of PPM. Higher accuracy is what we are after.

SD/USB Data Transfer

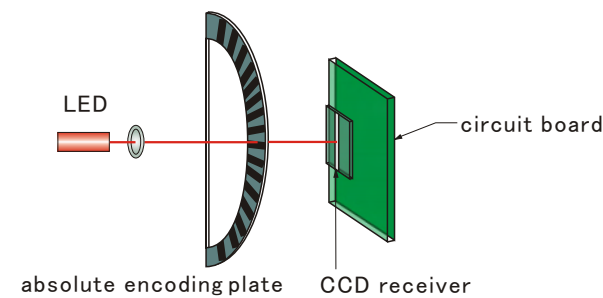


Extend your memory with a SD card. Download data via USB interface.

Dual Axis Compensation



Absolute Encoding



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

Laser Plummet



With laser plummet, moving station is no more an annoying matter.

Road Design Measurement

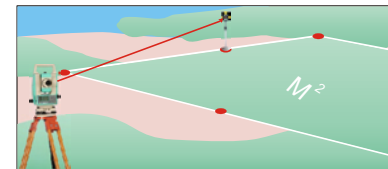


With straight line, arc, smooth curve and point, easy to input data and design road.

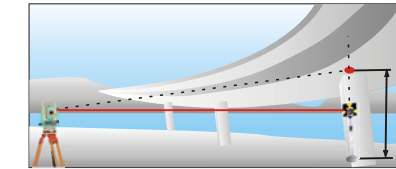
	RTS-820A	RTS-820R+	RTS-820L	RTS-820R ³
Reflectorless Range	--	200m	--	300m
Absolute Encoding	Yes	Yes	Yes	Yes
Water Proof	IP66			
SD Extend card & USB connection	No	No	Yes	Yes
Dual Axis Compensation	No	No	No	Yes
Laser Plummet	OPTIONAL			
Sensor of Temperature & Pressure	No	No	No	Yes
Road Design Measurement	Yes			

MEASUREMENT PROGRAM

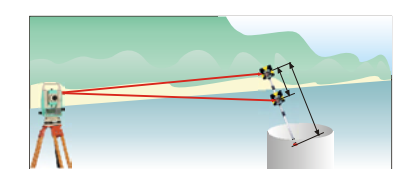
AREA MEASUREMENT



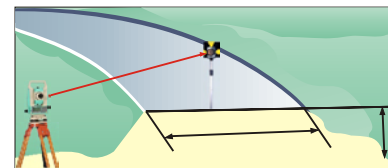
REMOTE HEIGHT MEASUREMENT



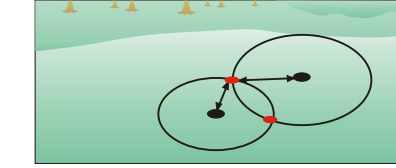
HIDDEN POINT MEASUREMENT



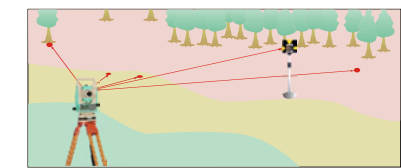
ROAD DESIGN AND STAKE-OUT



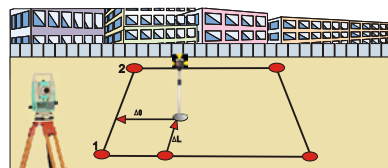
COGO PROGRAM



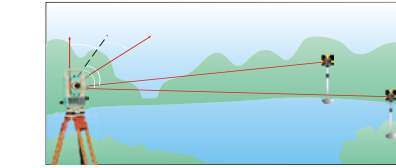
SURVEYING & ORIENTATION



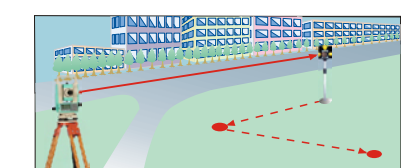
ARCHITECTURAL AXES STAKE-OUT



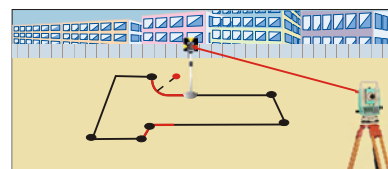
FREE STATION



STAKE-OUT



REFERENCE LINE/ARC



MISSING LINE MEASUREMENT

