

GTA1310R+ Automatical Gyro Total Station

Find high-precision azimuth
anywhere and anytime



- High accuracy of azimuth determination: $\leq \pm 10''$
- Automatical azimuth determination, easy operation
- High precision, more stable and faster measurements, just 20 minutes to get azimuth angle
- GTA1310R+ incorporates a gyroscope unit (GTA1010+) on a RTS352 Windows CE total station, onboard gyro calculation program and professional survey software are included; After measuring azimuth angle, it can work as well as regular total station for all survey projects
- It can work anytime under any hard conditions, like undersea tunnel orientation, subway construction, mine underground orientation, navigation device detection
- Self testing for measuring data can ensure reliable result
- It is characterized by its compactness and portability

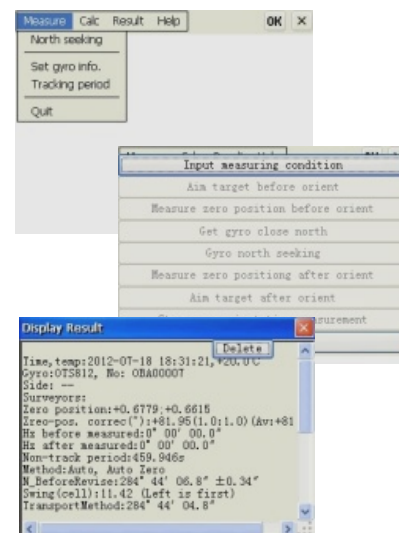
Application

The GTA1310R+ Gyro Total Station technology closely integrates a gyroscope(GTA1010+) with a RTS352 total station, which can determine the true north direction by $\pm 10''$ accuracy within 20 minutes of observation.

GTA1310R+ realizes the orientation through the perfect communication between onboard software and gyroscope.

With ingenious algorithm of software and without any manual calculating, recording and timing, GTA1310R+ can easily, quickly, efficiently, precisely and automatically find the true north direction, which eliminates the unnecessary labor and uncertainty of manual observation.

The GTA1310R+ is ideal for working in any hard conditions. It can improve efficiency, shorten construction time, improve accuracy, and bring great benefits to the user.



Technical data

Gyroscope		GTA1010+	
Accuracy of azimuth determination	$\leq \pm 10''$	Accumulator capacity	24V, $\geq 7Ah$, about 8h of working time at 25°C
Running-up time	$\leq 2min$	Charger(independent from power box)	Input voltage 110-220V, AC
Stopping time	$\leq 4min$	Charging time	$\leq 12h$
Operating area	Up to latitude 75°	Weight	3.2kg(gyroscope)/9.1kg(power box)
Output voltage of inverter	36V, three-phase AC	Operating temperature	-20°C to +50°C

RTS352 Total Station			
Telescope		Laser plummet(Standard)	
Length/Image	156mm/Erect	Accuracy	$\pm 1.0mm/1.5m$
Objective aperture	$\Phi 45mm$	Laser class	Class 2/IEC60825-1
Magnification/ Field of view	30x/1°30'	Laser wave length	635nm
Shortest focus distance	1.0m	Laser brightness	Adjustable
Angle measurement		Computer	
Reading system	Absolute encoder	CPU	ARM Cortex A8
Angle unit	360°/400gon/6400mil, selectable	Operating system	Windows CE 7.0
Display resolution	0.5"/1"/0.1"(0.15mgon/0.3mgon/0.03mgon)	Memory	4GB internal memory
Distance measurement		Display	3.5" colour TFT LCD (320 x 240 dots) touch screen
Accuracy(prism in standard mode)	2mm+2ppm	Power	
Measurement range(R1000)	2.0 to 1000m reflectorless	Battery	3400mAh Li-ion rechargeable
Compensator		Output voltage	7.4V DC
Compensation type	Dual-axis	Other	
Working range	3'	Interface	USB host/USB slave/RS-232C/Bluetooth(Optional)
Setting accuracy	1"	Water and dust protection	IP54(IEC60529)

Illustrations, descriptions and technical specifications are not binding and may change

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Suzhou FOIF Co.,Ltd.

TEL:+86 512 65224904

FAX:+86 512 65230619

Http://www.foif.com

E-mail:internationalsales@foif.com.cn

ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China



Local Dealer: