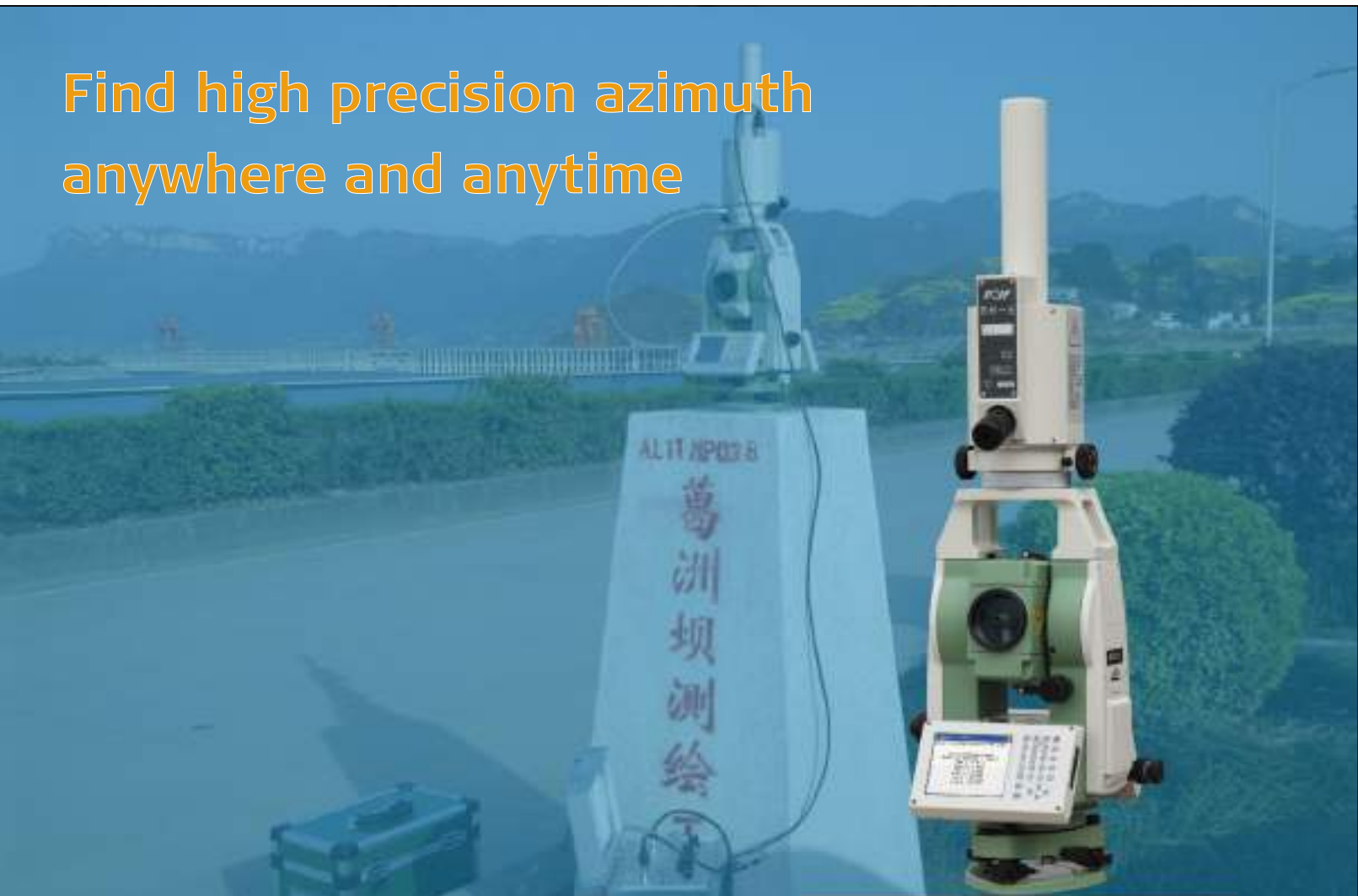




GTA1300 series Automated Gyroscope Station

Find high precision azimuth
anywhere and anytime



- High accuracy of azimuth determination: 10" /GTA1310, 15" /GTA1315
- Automatical azimuth determination, easy operation
- High precision, more stable and faster measurements, just 20minutes to get azimuth angle
- GTA1300 incorporates a gyroscope unit on Window CE total station, on-board gyro calculation program and professional survey software FOIF FieldGenius or Carlson SurvCE are included, after measuring azimuth angle, it can work as well as normal total station for all survey projects
- Can work under hard conditions, it can work anytime and anywhere
- Self testing for measuring data can ensure reliable result
- It is characterized by its compactness and portability

Application

FOIF's Gyro Station technology combines a gyroscope with a total station, creating a multi-use, surveying and engineering instrument. The GTA1300 can determine the azimuth to within 10" (1σ) with a 20 minutes observation.

It is also equipped with a fast orientation function which can be used when the azimuth to another point is known. There are also models with 10" and 15" (1σ) accuracy specification.

The GTA1300 is ideal for working in underground environments and in buildings. It can improve efficiency, shorten construction time, improve accuracy, and bring great benefits to the user.

The GTA1300 is more resilient than previous instruments and less damaged through misuse. Whilst previously, teachers were reluctant to let students use gyro instruments, this is no longer the case with the GTA1300 which is ideal for teaching further and higher education of surveying and construction students

Technical data

GTA1000 series gyroscope		GTA1310/GTA1315	
Accuracy of azimuth determination	10" /15"	Power supply	7000mAh, Li-ion Rechargeable battery
Running-up time	Approx. 120seconds		24V, 5A power inverter(Optional)
Operating area	Up to latitude 75°	Output voltage	24V
Weight/Size	3.2kg/W140xD186xH415mm	Working time	Approx. 6h(+20℃)
Operating temperature	-20℃ to+50℃	Charging time	Approx. 10 hours(+20℃)
RTS350 series total station			
Telescope		Laser plummet(Standard)	
Length/Image	156mm/Erect	Accuracy	±1mm/1.5m
Objective aperture	φ45mm	Laser class	Class 2/IEC60825-1
Magnification/ Field of view	30x/1° 30'	Laser wave length	635nm
Shortest focus distance	1.0m	Compensator	dual axis
Angle measurement		Range	±3'
Reading system	Absolute encoder	Level vial sensitivity	
Angle unit	360° /400gon/mil, selectable	Plate level vial	30" /2mm
Display resolution	0.5" /1" (or 0.1mgon/0.2mgon)	Circular level vial	8' /2mm
Accuracy*1	2" /5"	Display	
Distance measurement			3.5" 320×240dots color touch screen
Laser class(IEC60825-1)		Power	
Reflectorless/Reflective sheet(RP60)/Prism		Battery/Output voltage	3400mAh/7.4V DC
Class 3R/Class 3R/Class 1		Continuous operation time	8 hours(At +20℃) *4
Measurement range (Good condition*2)		Charger	FDJ6-Li(110V to 240V)
Reflectorless*3/Reflective sheet(RP60)/Prism		Charging time(at +20℃)	Approx. 4 hours
1 to 500m/1 to 800m/1 to 3000m		On-board software	
Accuracy		FOIF FieldGenius or Carlson SurvCE	
Reflectorless 1m-200m:3mm+2ppm, ≥200:5mm+3ppm		Others	
Prism 2mm+2ppm		Sensors	Built-in temperature and pressure sensors
Reflective sheet 3mm+2ppm		Internal memory	2GB
Measuring time Initial:2.5s		Keyboard	Alphanumeric keyboard, both sides
Prism typ.1.0-1.5s		Weight(including batteries)	6.5kg
Reflective sheet/RP60 typ.1.5s		Dimensions (WxDxH)	185x220x360mm
Reflectorless typ.1.5-5s, max. 20s		Operating temperature	-20℃ to+50℃
Display resolution(m/inch selectable)		Storage temperature	-40℃ to +70℃
Fine mode 0.1mm/1mm		Interface	USB host/USB slave/ RS-232C/Bluetooth(Optional)
		Water and dust protection	IP55(IEC60529)

*1 Standard deviation based on ISO17123-3

*2 Good conditions: no haze, visibility about 40km, no hear shimmer, breeze

*3 Reflector: White side of Kodak Gray Card with 90% reflective

*4 Single distance measurement every 30 seconds

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

FOIF Since 1958
It's professional

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