

Electronic Total Station

Reflector Less Distance Measurement

Large Memory storage

USB/Bluetooth

Long Battery Life

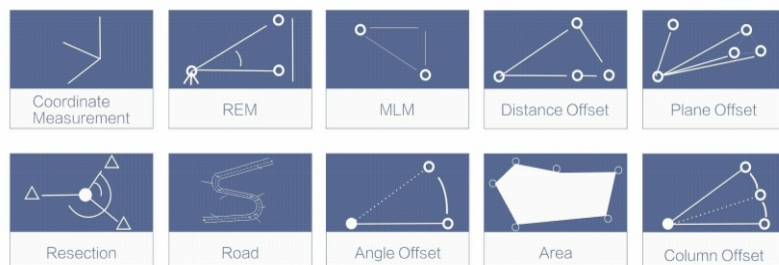
Laser Plummet



HTS/ATS series Total Station

Software Features

- STM32 Architecture
- Powerful and Fast EDM Capability
- Intelligent Callibration Software
- Absolute Encoder Angle Measurement
- Stable Dual-axis Compensation
- Rich Communication and Transmission





Technical Features



Powerful and Fast EDM Capability

No Prism Accuracy of 3mm+2ppm & accurate measurement.



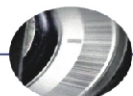
STM32 Architecture

The STM32 MCU based on ARM CortexTM-M processor enables the Total Station for extra high speed and low power consumption.



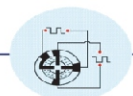
Intelligent Calibration Software

Accessible for real time diagnosis to ensure trouble free operation. The software can determine 90% of problems.



Absolute Encoder Angle Measurement

1023 pair of absolutely coded discs. All Series angle measurement accuracy is two second. Starting without initialization. The data will save automatically when power



Stable Dual-axis Compensation

Stable Dual Compensation. Compensation range 3' for high accuracy of angle measurement.



Rich Communication and Transmission

With RC232C, SD, USB & mini USB communication interface. Using Bluetooth for data transmission, makes data transmission more convenient.

ATS/HTS Series Specification

Description	Model	ATS-120R	HTS-420R	HTS-420L6
Angle Measurement				
Measurement Method	Absolute Encoding			
Minimum Readout	1"			
Accuracy ¹	2"			
Telescope				
Magnification	30X			
Field of view	1°30' (2.7m at 100m)			
Minimum Focusing Distance	1.5m			
Reticle	illuminated			
Compensator		Liquid Tilt Sensor		
System	Single Axis	Dual Axis	Dual Axis	
Working	±3'			
Setting Accuracy	1"			
Distance Measurement		(Reflector less)		
Reflector less Range ²	350m	350m	600m	
Single Prism	5500	7000m	7500m	
Accuracy	3mm+2ppm			
Measuring	1.5s			
Distance Measurement		(with Reflector)		
Single Prism Under good condition ³	2500/3000m	3000m	4000/5000m	
Reflective Sheet	800m		1000m	
Accuracy	2mm+2ppm			
Measuring Time (Fine/Quick/Tracking)	1.5s/1.2s/0.8s	1.3s/1s/0.5s	1s/0.8s/0.5s	

Description	Model	ATS-120R	HTS-420R	HTS-420L6
Communication				
Wireless Communication		None	Bluetooth	Bluetooth
Interface		Standard RS232,SD-Card ⁴ , Micro USB		
Internal Data Memory		Approximate 20000 Points		
Data Format		ASCII		
Operation				
Operating System		Real Time Operating System		
Display		Gray and white Display with adjustable contrast 280 x 160 pixel		
Keyboard		2 Sides alphanumeric backlit crystal keyboard		
Laser Plummet				
Type		Laser point, 4 brightness level adjustment		
Centering Accuracy		1mm at 1.5m Instrument height		
Environmental Condition				
Operating Temperature		-20 ⁰ c to +50 ⁰ c		
Storage Temperature		-40 ⁰ c to +70 ⁰ c		
Dust & Water proof(IEC60529 standard)		IP55		IP65
Power Supply				
Battery Type		Rechargeable Li-Ion Battery		
Voltage/Capacity		ZBA-400 7.4V DC / 3000mAh		
Operating Time with ZBA-400		Optimal 16 hr ⁵ (continuous angle measurement every 30 seconds / 10 hr Typical		
Measuring Time		Approx. 12000 times		
Weight				
Including Battery and Tribach		5.5 Kg Approx.		

¹ Standard Deviation based on ISO17123-3

² Calculated by Kodak gray card white side

³ Good Condition: No haze, visibility about 40Km

⁴ Maximum extension up to 32GB

⁵ New Battery at 25 ° c



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