

HTS Series Total Station

AVEREX

SURVEYING INSTRUMENTS

Single Axis



HTS-220R

Dual Axis



HTS-420R

Bluetooth
SD-Card

Technical Features



Powerful and Fast EDM Capability

ATS-120 series Total Station's no prism measurement range can up to 800 meters. No prism measurement accuracy 3mm+2ppm. Accurate measurement 0.8S, Track measurement 0.3S.



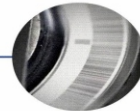
STM32 Architecture

The STM32 MCU based on ARM Cortex™-M processor enables the total station has extra high processing speed and low-power consumption.



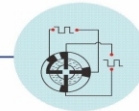
Intelligent Callibration Software

Accessible for real-time diagnosis to ensure trouble-free operation. The software can determine 90 percent of the Problem.



Absolute Encoder Angle Measurement

1023 pairs of absolutely coded disc. All Series' angle measurement accuracy is two seconds. Starting without initialization. The data will save automatically when the power failure.



Stable Dual-axis Compensation

Stable Dual-axis Compensation. Compensation range 3'. Operation can be visualized and High accuracy of angle measurement.



Rich Communication and Transmission

With RS232C, SD, USB and MiniUSB communication interface. Using Bluetooth for data transmission, make data transmission more convenient.

Description	Model	HTS-220R	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	HTS-220R	HTS-420R	HTS-420L6
Communication				
Wireless Communication		None	Bluetooth	
Interface		Port Rs232, SD-Card, 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°C to +50°C		
Storage Temperature		-40°C to +70°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 & Tribtach		5.5 Kg Approx.		

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