SPECIFICATIONS

Model	HTS-420R
Angle measurement	1110 12011
Angle measuring principle	Absolute Encoding
Minimum Readout	1"/5"/10"(0.3mgon/1.5mgon/3mgon) optional
Accuracy ¹	2"
Distance measurement (Prism mode)	
Range ³	Single Prism: 3000m (9,842ft.) Three Prisms: 6000m (19,685ft.) Reflective Sheet: 800m (2,624 ft.)
Accuracy	±(2mm+2ppm)
Measuring Time	Repeat/Tracking: 0.8s/0.3s
Distance measurement (Reflectorless)	
Range	Single Prism: >7500m (24606 ft) Reflectorless Range ² : 600m (1968.5 ft)
Measuring Time	1.5s
Accuracy	±(3mm+2ppm)
Telescope	
Magnification	30X
Field of view	1°30′ (2.7m at 100m)
Minimum Focusing Distance	1.5 m
Reticle	Illuminated
Tilt Sensor	·
System	Dual-axis liquid tilt sensor
Working Range	±3'
Accuracy	1"
Communication	·
Internal Data Memory	Approx. 20,000 Points
Interface	Standard RS232, SD card⁴ , Micro USB
Wireless Communication	Bluetooth
Data Format	ASCII
Power Supply	· ·
Battery Type	Rechargeable Li-ion battery
Voltage/Capacity	BT10: 7.4V (DC) / 3000mAh
Operating Time ^s With BT10	Optimal 16 hours (Continuous angle measurement every 30 seconds) / 10 hours (typical)
Measuring Times	Approx. 12000 times
Other	
Display	LCD display with adjustable contrast; 280 X 160 pixels; 6 lines X 25 characters
Keyboard	2 sides Alphanumeric backlit crystal keyboard
Operation System	Real-time Operating System (UDOS)
Weight	Incl. Battery&Tribrach: Approx. 5.5kg (12.1lb)
Plummet	
Туре	Laser point, 4 brightness levels adjustment / Optical plummet (optional)
Centering Accuracy	1mm at 1.5m instrument height
Environmental	·
Operating Temperature	-20°C ~+50°C(-4°F to +122°F)
Storage Temperature	-40°C ~+70°C(-40°F to + 158°F)
Dust&Water Proof (IEC60529 Standard)/Humidity	IP65, 95%, non-condensing
*1 Standard deviation based on ISO 17123-3.	

Hi-Target Surveying Instrument Co., Ltd





AUTHORIZED DISTRIBUTION PARTNER

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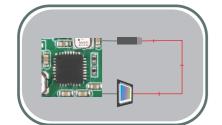
HTS-420R adopts absolute coding technology, the angle measurement accuracy is 2". The prism-free measurement range reaches 600m with the advanced EDM design. The stable performance provides customers with a wonderful user experience. It adopts an icon-based operation interface and has a variety of interfaces, such as RS232, USB, SD card, etc., which provides better human-computer interaction. A great diversity of measurement procedures meet various professional measurement scenarios.



 2.Built-in multi-function calibration software, the maintenance convenience is greatly improved.



 3.Double-axis compensator, high-precision bead shafting, sealed encoder disk, stable measurement and high precision.



 1.Advanced EDM design ensures measurement accuracy and stability.Reflectorless range 600m.



 4.Support a variety of interface RS232, USB, OTG-U disk, SD card. Supports USB cable and U disk data transmission in various formats, such as (*.csv), (*.txt), (*.dat), (*.dxf), (*.gt7), (*. htf) etc.



 5.Backlit keyboard. dark environment, also easy to operate.

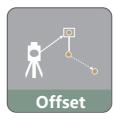


 6.Support SurVCE, FieldGenius and Hi-Survey connection, and support secondary development.



Function





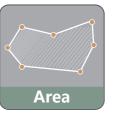


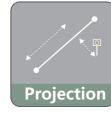




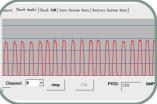


















- Built-in multi-function calibration software, the maintenance convenience is greatly improved.
- TS-Check professional fault diagnosis software can locate the fault point accurately and provide you with more convenient after-sales service.

Application











Mining



Tunnel



Railway



Road