SPECIFICATIONS

Angle Measurement	
Angle Measuring Principle	Absolute Encoding
Minimum Readout	1"
Accuracy	2"
Distance Measurement (Prism Mode)	
Single prism[1] (General/Good Atmosphere)	5000m/6000m
Accuracy (Fine/Quick/Tracking)	2mm + 2ppm
Measuring Time[3] (Repeat/Tracking)	0.5s/0.3s
Distance Measurement (Reflectorless)	
Range[2] (The target is Kodak white board with reflect rate of 90%)	1000m
Accuracy (It may change according to the different reflector conditions)	3mm + 2ppm
Measuring Time[3]	Approx. 1s
Telescope	
Magnification	30x
Field of View	1°30'
Minimum Focusing Distance	1.5m
Reticle	Illuminated
Tilt Sensor	
System	Dual-axis liquid tilt sensor
Working Range	±3'
Accuracy	1"
Communication	
Internal Data Memory	Approx. 80,000 Points
Interface	Standard RS232, USB
Wireless communication	Bluetooth
Data Format	ASCII
Power Supply	
Battery Type	Rechargeable high-energy lithium battery (Type-C for direct charging)
Voltage/Capacity	7.4V DC / 3000 mAH
Operating Time[4]	Optimal 36 hours (Continuous angle measurement every 30 seconds) / 18 hours (typical)
Measuring Times	Approx. 30000 times
Other	
Display	2.8 inch 240*320 pixel highlight color display
Keyboard	2 sides alphanumeric backlit silicone keyboard. Trigger key.
Plummet	
Type	Laser point, 4 brightness levels adjustment / Optical plummet (optional)
Environment	
Operating Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Temperature and Air Pressure Input	Automatic sensor
Dust&Water Proof (IEC60529 Standard)	IP65

Reminding:
*1. Good Conditions: good visibility of about 20km, the overcast sky without scintillation.
*2. Under Kodak Gray (90%), measuring distance may vary according to targets and the conditions.
*3. Measuring time may vary with measuring distance and conditions. For the initial measurement, it may take a longer time.
*4. Battery life performs best at 25℃. It might be shorter in low temperature or if the battery is old.

AUTHORIZED DISTRIBUTION PARTNER

22A218

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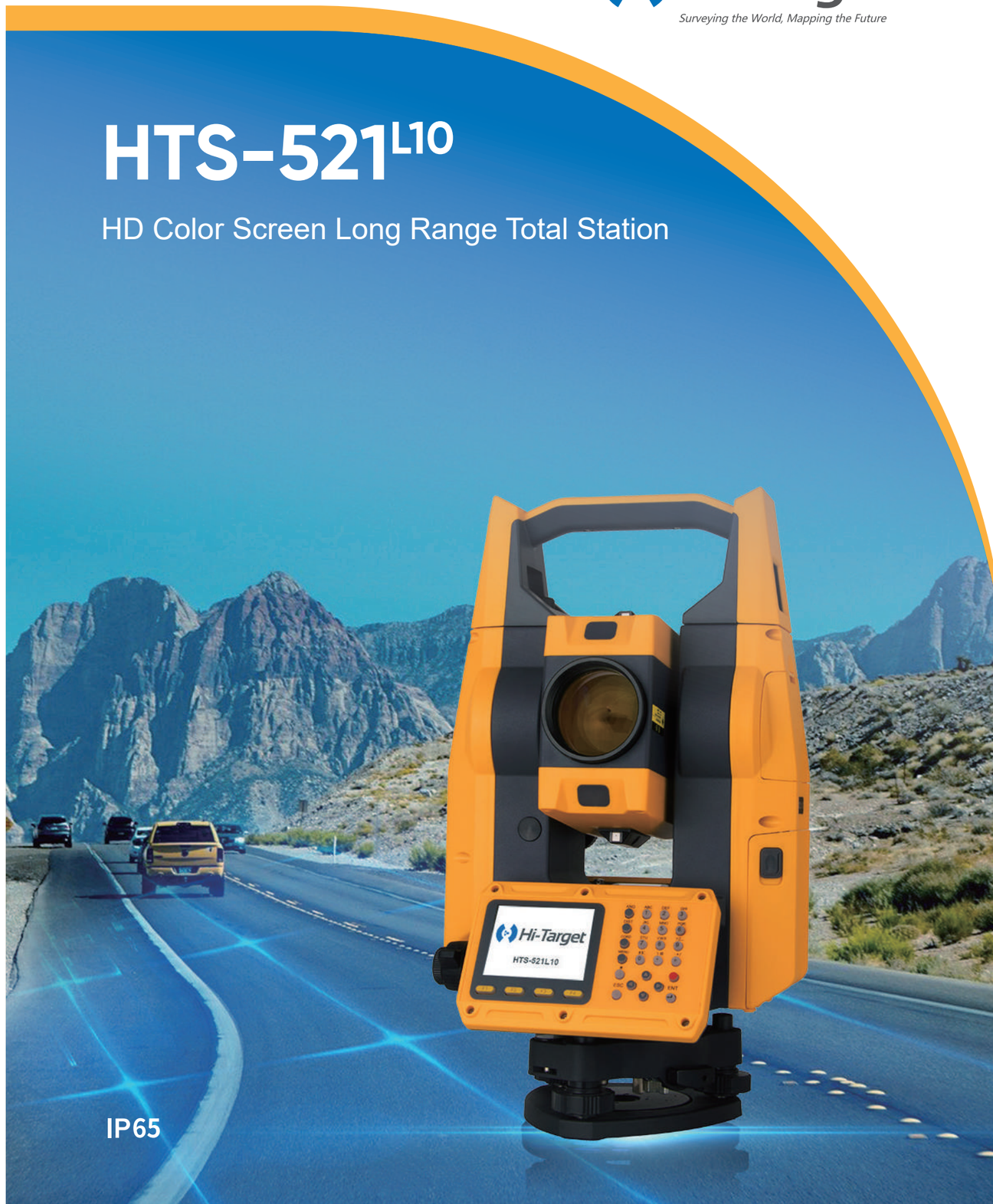
Hi-Target
Surveying the World, Mapping the Future

HTS-521^{L10}

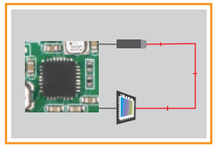
HD Color Screen Long Range Total Station



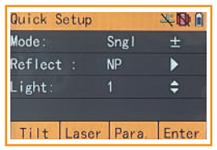
HTS-521^{L10}

HD Color Screen Long Range Total Station

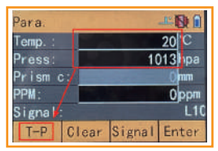
HTS-521^{L10} adopts a high-definition color screen to provide better human-computer interaction. The new optical design and absolute coding technology improve the measurement performance. High-precision compact bead shafting and sealed encoder disk enhance accuracy and stability. Built-in abundant measurement programs and comprehensive maintenance procedures will provide a new measurement experience.



New Edm
- Reflectorless range 1000m.
- Speed down to 0.3s.



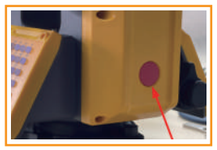
Colorful Screen
- 2.8-inch 240*320 pixel, clearly visible in sunlight.



Auto Senser
- Get temperature and pressure automatically. One-click access.

Stable Hardware Design
- Dual-axis tilt sensor. High-precision bead shafting. Sealed encoder disk.

Data Transmission
- USB cable and U disk.
- Format: (*.csv), (*.txt), (*.dat),(*.dxf),(*.gt7), (*. htf) etc.

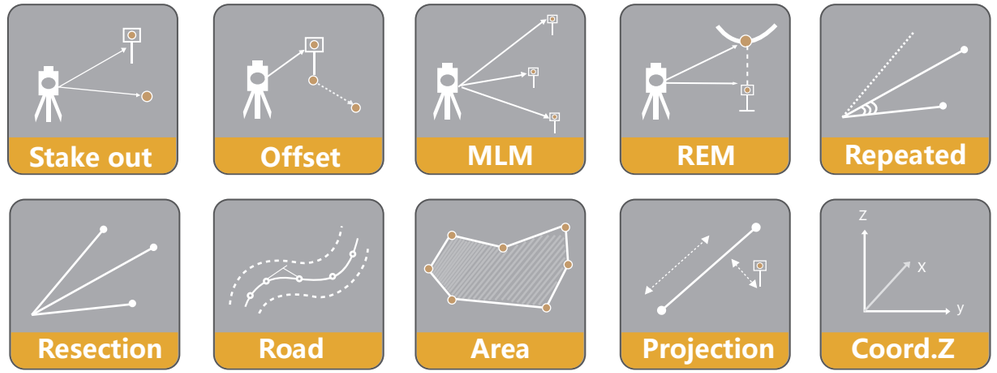


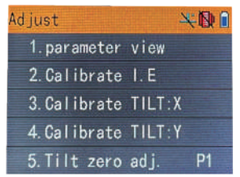
Trigger Key
- More efficient and accurate.

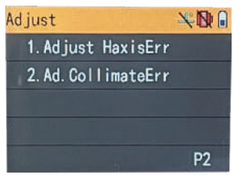
Power
- 3000mA high-capacity Li-ion battery, LED display, Type-C charging.
- Battery life exceeds 18h.

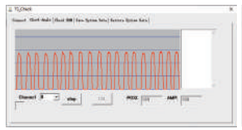
Software Connection
- Support connection with SurvCE and Hi-Survey Road.
- Support secondary development.

Function









Calibration Software

- Built-in multi-function calibration software improves the convenience of maintenance greatly.

TS-Check

- The comprehensive fault diagnosis software can help you locate the fault exactly. The simple operation will guarantee you strong after-sales service.

Application

HTS-521^{L10} is widely applied to control surveys, construction, mining, tunnel, railway, highway and other application scenarios. HTS-521^{L10} was born for efficiency.

Control Surveys

Construction

Mining

Tunnel

Railway

Road