

# HTS-521<sup>L10</sup>

HD Color Screen Long Range Total Station

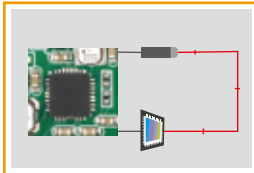


IP65

# HTS-521<sup>L10</sup>

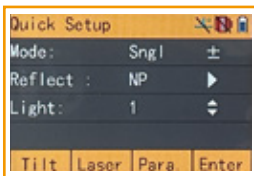
## HD Color Screen Long Range Total Station

HTS-521<sup>L10</sup> 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.



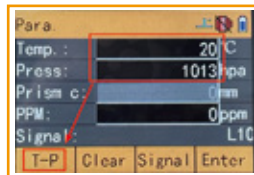
### New Edm

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



### Colorful Screen

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



### Auto Sensor

- 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

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



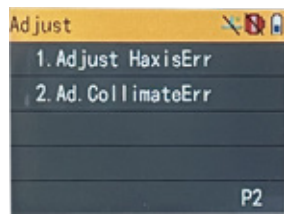
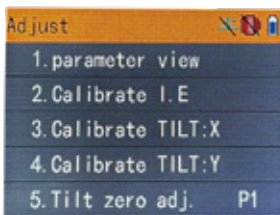
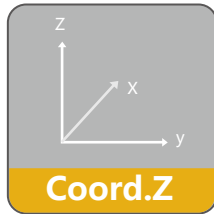
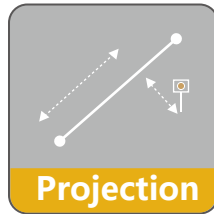
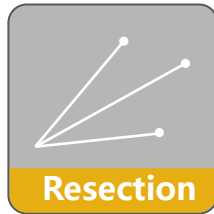
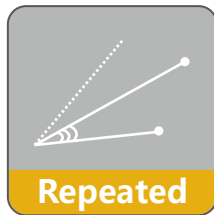
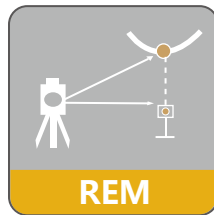
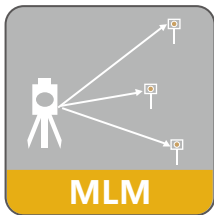
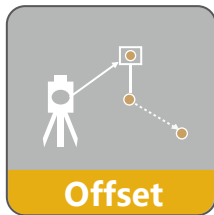
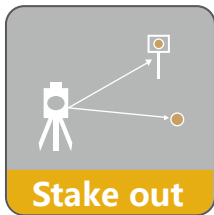
### Software Connection

- Support connection with SurvCE and Hi-Survey.
- Support secondary development.



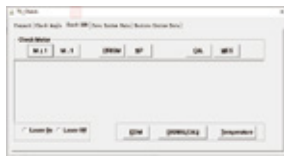


# Function



## 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<sup>L10</sup> is widely applied to control surveys, construction, mining, tunnel, railway, highway and other application scenarios. HTS-521<sup>L10</sup> was born for efficiency.



Control Surveys



Construction



Mining



Tunnel



Railway



Road

# SPECIFICATIONS

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



AUTHORIZED DISTRIBUTION PARTNER

24J213

## Hi-Target Surveying Instrument Co., Ltd

ADD: Building 13, Tian'An Technology Zone HQ Center, No. 555, North of Panyu RD, Panyu District, 511400 Guangzhou, China.  
www.hi-target.com.cn +86-20-28688296 sales@hi-target.com.cn