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Hi-Target
*Surveying the World, Mapping the Future*

# HTS-521$^{L10}$

## HD Color Screen Long Range Total Station

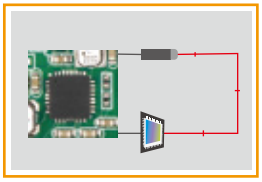



IP65

# HTS-521$^{L10}$

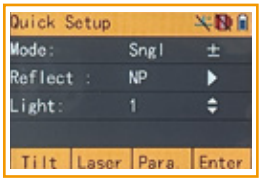
## HD Color Screen Long Range Total Station

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.



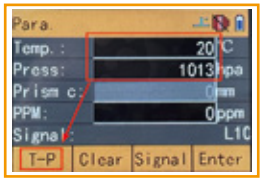
### New Edm

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




### Colorful Screen

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




### Auto Senser

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



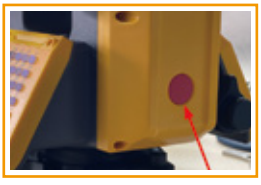
### Stable Hardware Design

- 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

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

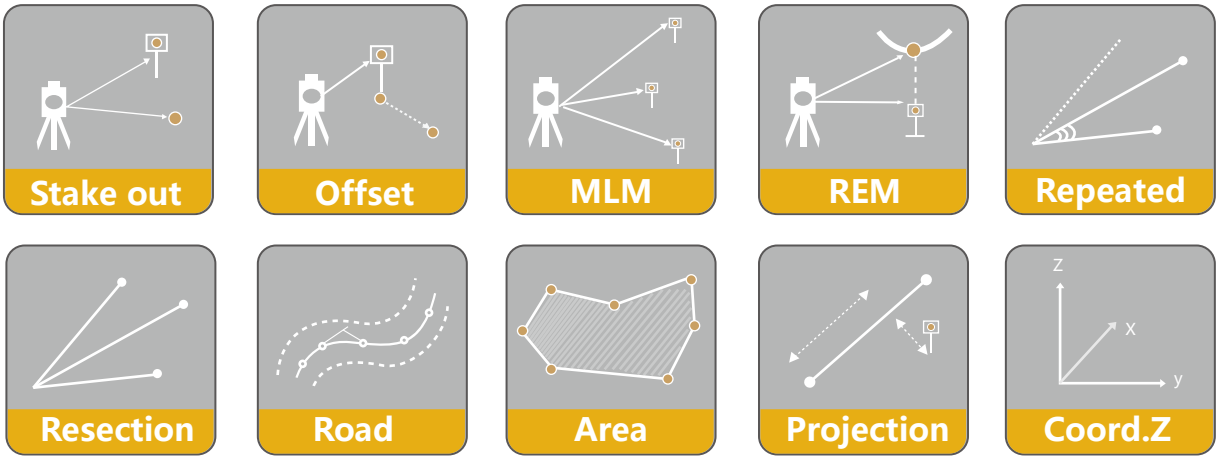


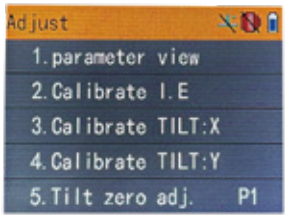
### Software Connection

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



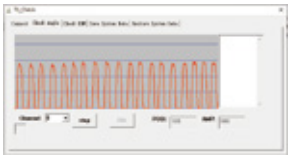
# Function











## 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$^{L10}$ 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

# SPECIFICATIONS

| | |
|---|---|
| **Angle Measurement** | |
| Angle Measuring Principle | Absolute Encoding |
| Minimum Readout | 1" |
| Accuracy | 2" |
| **Distance Measurement (Prism Mode)** | |
| Single prism[1] (General/Good Atmosphere) | 5000 m / 6000 m |
| Accuracy (Fine/Quick/Tracking) | 2 mm + 2 ppm |
| Measuring Time[3] (Repeat/Tracking) | 0.5 s / 0.3 s |
| **Distance Measurement (Reflectorless)** | |
| Range[2] (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[3] | Approx. 1s |
| **Telescope** | |
| Magnification | 30x |
| Field of View | 1°30' |
| 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. 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 | 7.4 V / 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.

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