HTS-720

Android Total Station

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Android 9.0

5.5 inch touch screen

EDM EDM 1000m

Wireless Connection

8MP Camera

Type-C

1.8 Ghz Qualcomm CPU

2GB RAM, 16GB ROM

HTS-720 features a 5.5-inch touch high-definition large screen, powered by the Android operating system and our brand-new Android measurement software. With the addition of a built-in camera, measuring and stakeout tasks have never been easier.

Intuitive T-Survey software

- Quick settings without switching back and forth between pages. Fast, simple, and convenient operation.

- Comprehensive functions specifically designed for different measurement scenarios.

- Supporting updating to the latest version online.

Road, Bridge and Tunnel measurement
Featuring road, bridge and tunnel design functions, the powerful data processing capabilities of the latest Android measurement software speed up the measurement process and make fieldwork more efficient.

Calculate height of instrument automatically
Automatic height calculation promises higher accuracy.

Imaging for recording points
HD photography for drawing up drafts accurately and quickly.
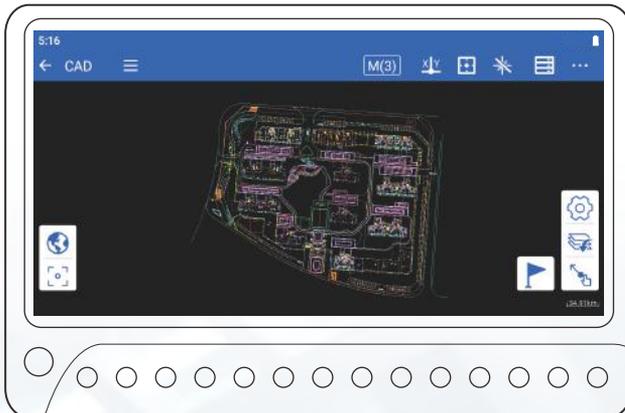
Graphical electronic bubbles guidance
Animated instruction simplifies the setup process, adjusting the foot screw and leveling the instrument in one step, no more struggling in rotating the instrument back and forth.
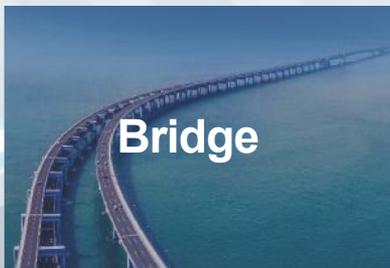
Function

Visual Stakeout

Reducing frequencies of staring at the telescope and finding points easily through the image guidance, which is accessible to both experienced and novices.

CAD Stakeout

Enabling millisecond-level dynamic response, the high-performance CAD engine makes selecting stakeout points and lines in one click possible, and makes stakeout more intuitive.

Application

Bridge

Construction

Mining

Tunnel

Railway

Road

SPECIFICATIONS

Angle Measurement

Angle Measuring Principle	Absolute Encoding
Minimum Readout	0.1"
Accuracy	1"/2"(Optional)

Telescope

Magnification	30X
Field of View	1°30′
Minimum Focusing Distance	1.5 m
Reticle	Illuminated

Compensation

System	Dual-axis
Working Range	±6′
Accuracy	1″

Distance Measurement (Prism Mode)

Single Prism¹(General / Good Atmosphere)	5000 m / 6000 m
Accuracy (Fine / Quick / Tracking)	2 mm+2 ppm
Measuring Time³ (Repeat / Tracking)	0.5 s / 0.3 s

Reflectorless

Range² (The target is Kodak white board with reflect rate 90%)	1000 m
Accuracy (Change according to the different reflector condition)	3 mm+2 ppm
Measuring Time³ (Repeat / Tracking)	Approx. 1s

Communication

Interface	Type-C(OTG), TF Card, RS232
WLAN	2.4 GHz Dual-Band, Support AP mode
Bluetooth	BT2.1+EDR / 3.0 / 4.2 LE
Microphone / Speaker	Available

System Configuration

Operation System	Android9.0
Processor	Qualcomm CPU@ octa-core 1.8 GHz
Memory	RAM：2 GB ROM: 16 GB

Display System

Display	5.5" touch screen, 720*1440

Camera

Pixel	8 MP

Levels

Tube level	30″ / 2 mm
Circular level	8′ / 2 mm

Plummet

Type	Laser Point
Accuracy	1 mm(Instrument Height 1.5 m)

Environmental

Operating Temperature	-20°C ~ 50°C
Storage Temperature	-40°C ~ 55°C
Temperature and Air Pressure Input	Automatic sensor
IP Rating	IP65

Power Supply⁴

Battery Type	High-energy lithium battery
Voltage/Capacity	7.4V / 6600 mAh
Measuring Times	Approx. 30000 times

Dimension

Size	206 mm*213 mm*374 mm
Weight	5.75Kg(battery included)

Reminders:

*1. Good Conditions: good visibility of about 20km, the overcast sky without scintillation.

*2. Under Kodak white board(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.

IP65

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