

AXIS10



With extradinary performance of 0.5"/1" angle and 1+1ppm distance accuracy, fast and smooth motorization, and the powerful onboard program, AXIS10 makes the measurement tasks easier.

Easy develop for other industries, which brings you new possibilities.



Robotic total station AXIS10 is a smart choice for power, performance, and productivity which essentially optimize the time and cost with utmost accuracy.

Combines the engaging onboard software, the prism can be quickly aimed, locked and tracked with maybe the best-in-class **xTrak** technology.



Torque Drive.

Let's Work in Silence.

Rotating at up to 180°/s, AXIS10 ensures high-dynamic performance with its extraordinary xTrak technology, which is smoother and faster than others.



Prism Recognize. Automatically recognizes and measures the prism at distances up to 1000m.

Prism Search. Scan and detect the prism within 300m from the entire working site, saving almost 2/3 of the measurement steps compared to a manual total station.

Prism Lock. Follow and lock a moving prism at 20°/s, which eliminate the need for standing around.



Flexible Connectivity

AXIS10 offers superior connectivity with USB, Wi-Fi, Bluetooth, long-range Bluetooth, serial port, and a SIM card slot, enabling effortless data exchange and remote control.



Touch-to-Aim Camera

Just simply tap on the screen to instantly direct AXIS10 to aiming the target. The 5-megapixel camera also helps to record the images or videos of target when necessary.



Work Further with S Pad

8-inch display with 500 nits brightness ensures clear visibility, even in bright light. 600m remote control makes single-person operations efficient and effortless.

Key Features

- 0.5", 1" angle accuracy optional
- 1+1ppm distance accuracy
- Silent working with xTrak
 - Torque drive, 180°/s
 - Prism recognize: 1000m
 - Prism search 300m
 - Prism lock
- Guide light
- Touch-to-Aim camera
- ▶ 6.0-inch color and touch screen
- Intelligent onboard program
- Android 9.0 open connectivity
- ► IP65 protection



Unique One-Man Solution

With its exclusive long-range Bluetooth (600m), AXIS10 allows a single operator to control the entire surveying process without the need for additional personnel.

More Intuitive Functionality

Capture the target more easily with icons that display the measurement status in real-time, or with graphic guidance like an electronic compass.

More Powerful Programs

The programs, like CAD stake out, ensuring that construction projects align perfectly with design plans. With AXIS10, you can achieve higher productivity, better project coordination, and a smoother workflow from start to finish.





Genius for Monitoring

AXIS10 can be adapted to your own monitoring software after debugging. We also offer a specialized option designed for real-time data collection, processing, and management in monitoring applications.

STEC-MOS

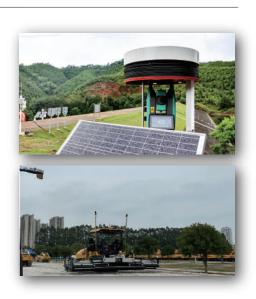
STEC-MOS is a professional automated monitoring software. The system features automatic learning, automatic measurement, automatic data processing, and remote maintenance, enabling real-time data analysis and processing to provide timely warnings.



SDK Free for Develop

Unlock the full potential of your projects with AXIS10 robotic total station, now equipped with an open SDK development package.

Seamlessly integrate and collaborate across a range of application, from pipe jacking guidance and tunnel boring machines to smart construction and paving systems. AXIS10 brings precision, flexibility, and efficiency to every phase of your operation, making it the ultimate tool for advanced construction and engineering solutions.



SPECIFICATIONS

ANGLE

Accuracy 0.5"/1"

Method Absolute Encoding

Detecting System H: quatruple; V: quadruple

Minimum Reading 0.1"

Diameter of Circle 79mm

Vertical Angle Zenith 0/ Horizontal 0
Unit 360°/400gon/6400mil

DISTANCE

Single Prism Range 3,500m

Accuracy 1mm+1ppm

Non-prism Range 1,000m

Accuracy 3mm+2ppm

Measuring Time - Prism Fine: <0.7s; Tracking: <0.3s

- Non-P T<600m: 0.5-3s; T>600m: <10s

PPM Correction Auto Sensor

TELESCOPIC

Length 164.5mm

Diameter 45mm (EDM: 47mm)

Magnification30xImageErectField of View1°30'Resolving Power3"Minimum Focus1.5m

xTrak MOTORIZATION

Type Torque motor

Maximum Speed 180°/s

Auto Prism Recognize

Working Range 1.5-1000m

Searching Time 5s

Prism Search

Working Range 1.5-300m
Typical Searching Time <10s

Field of View V: ±20°, H: 360°

Prism Lock

Tracking Speed 20°/s

COMPENSATOR

Tilt Sensor Dual-axis Liquid electric sensor

Range 4' Accuracy 1" **LEVEL**

Plate Level 30"/2mm Circular Level 8'/2mm

LASER PLUMMET

Type 635nm, Class II
Accuracy 0.4mm at 1.5m height
Spot 1.8mm at 1.5m height

GENERAL

Display Two sides, 6-inch color touch LCD

Camera 5 megapixel

Guide Light Red/Yellow, 635nm/593nm

OS Android 9.0

Internal Memory RAM 3GB, ROM 32GB

CPU MSM8953

I/O Interfaces RS232, USB, Micro USB, Bluetooth

4.0

WLAN Dual-band 802.11/a/b/g/n

Battery Li-lon, 14.4V, 6400mAh

Working Duration 8 Hours Waterproof/Dustproof IP65

Operating Temperature -20°C to +50°C

Dimension 430 (H)*255 (L)*235 (W) mm

Weight 9.3KG

TABLET - S PAD

Display 8-inch multi-touch color screen

Camera 13 megapixel/5 megapixel

OS Android 10

Internal Memory RAM 4GB, ROM 64GB

CPU SDM632

I/O Interface Type C, Bluetooth 4.2, WLAN

Battery 3.8V, 8000mAh, Li-ion

Working Duration 10 Hours Waterproof/Dustproof IP67

Operating Temperature 20°C to +60°C

Dimension 235*146*13 mm









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