



 **AXIS 1**

STEC

Mechanical Total Station

2"
2+2ppm
1500m Non-Prism
8 Lines Display
Customized Function Keys
User 1/2 Mode

STABLE AND RELIABLE

AXIS 1 offers stable performance with 2" angular accuracy and $\pm(2 + 2 \text{ ppm})$ distance accuracy, meeting engineering-grade requirements.

FAST, ACCURATE AND LONG DISTANCE

Powered by dual-laser EDM technology, it delivers reduced phase errors, faster measurement (0.3s), and 1500m non-prism range — built for precision and performance.

MORE INFORMATION, LESS FATIGUE AND FEWER MISTAKES.

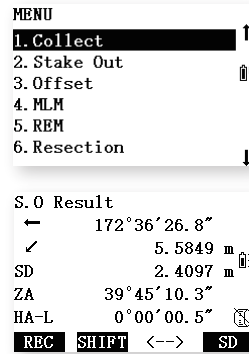
3.1-inch high-resolution display guarantees a seamless, efficient field experience from start to finish.

Work smarter with an ergonomic keyboard, customizable function keys, and intuitive shortcuts for faster access to essential applications.



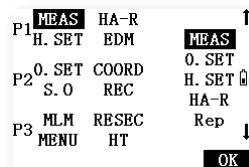
- ▶ 2" angle accuracy
- ▶ Ultra fast (0.3s) and accurate (2+2ppm) distance measurement
- ▶ 1500m non-prism range
- ▶ Large, easy-to-read LCD screen with 8 lines
- ▶ T-P Sensor

POWERFUL ONBOARD SOFTWARE FUNCTIONS



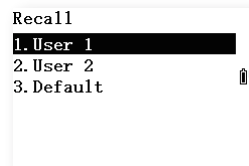
Versatile Onboard Programs

AXIS 1 includes data collect, line stake out, arc stake out, offset, roads and a comprehensive set of COGO programs designed to meet the diverse needs of field surveying.

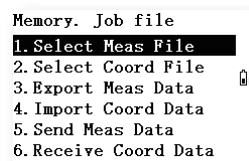


Configurable Functional Keys

The functional keys F1-F4 can be tailored to your specific needs, allowing quick access the programs that matter most to your workflow.



AXIS 1 supports dual user profiles - USER 1 and USER 2 - enabling two different sets of configurations for individual preference.



Cross-file Coordinate Access

The coordinates are available to be selected from multiple files seamlessly.

Seamless Data Compatibility

Easier data transfer with SDR33 format, ensuring smooth integration with various post-processing software.

Onboard Calibration Program

With the built-in calibration function, to calibrate the performance directly in the field, ensuring consistent accuracy without needing to return to the office or workshop.

SPECIFICATIONS

TELESCOPIC

Length	150mm
Diameter	Telescopic: 40mm; EDM: 45mm
Magnification	30x
Image	Erect
Field of View	1°30'
Resolving Power	3"
Minimum Focus	1.2m

DISTANCE

Single Prism Range	5,000m
Accuracy	±(2mm+2mm*D)m.s.e
Non-prism Range	1,500m
Accuracy	±(3mm+2mm*D)m.s.e
Measuring Time	Fine: 0.3s; Normal: 0.2s
Meteorologic Correction	Auto Sensor
Prism Constant	Manual

ANGLE

Accuracy	2"
Method	Absolute Encoding
Detecting System	H: dual; V: dual
Minimum Reading	0.1"/1"
Diameter of Circle	79mm
Vertical Angle 0°	Zenith: 0°; Horizontal: 0°
Unit	360°/400gon/6400mil

DISPLAY

Display Unit	3.1 inches with backlight, 8 lines
No. of Displays	2
Keyboard	Alphanumeric

GUIDE LIGHT

Type	Red+green flashing LED
Working Range	150m

PLUMMET - LASER

Type	Class 2
Accuracy	<0.4mm @ 1.5m height
Spot Diameter	<1.5mm @ 1.5m height
- OPTICAL	
Image	Erect
Magnification	3X
Focusing Range	0.3m - ∞
Field of View	7°

TILT CORRECTION

Tilt Sensor	Dual axis
Method	Liquid electric
Range	6'
Resolution	1"

LEVEL

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

DATA INTERFACE

Internal Memory	100,000 points
Data Interface	USB2.0
Wireless	Bluetooth 2.1

GENERAL

Quick-meas Button	Yes
Weight	5.4kg
Dimension	353 (H) * 206 (L) * 200 (W) mm
Operating Temperature	-20°C to 50°C
Battery	Li-on battery, 7.4V, 3000mAh
Water & Dust Proof	IP55
Working Duration	16h



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