

AXIS SP

AXIS SP Robotic Total Station comes with a brand-new compact design - **Smaller, Lighter, and more Portable** than before.

A complete pole-driven solution combining AXIS SP, any STEC GNSS receiver with Field Master!

STEC

Robotic Total Station



NEXT-GEN MOTORIZATION Torque Drive 2.0: Easier One-Man Operation

Featuring a newly designed low-power, lightweight motor, AXIS SP delivers strong drive and stability while significantly reducing overall instrument weight.

Rotating at up to 180º/s, AXIS SP ensures high-dynamic performance with its extraordinary xTrak technology.

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

Prism Search. Searching the prism within the range of 300m, H: 360° and V: 20° from the entire working site. In complex environments, such as multi-prism interference or uneven terrain, manual aiming is not required any more.

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

1 Up to 1”, 1 + 1ppm, More Accurate
Perfect for precision engineering like bridges, tunnels, and the other high-accuracy jobs.

2 Upgraded Optical System, Fewer Errors
Significantly improves measurement accuracy and speeds data capture.

3 Full Keypad + 5.0-inch Touchscreen
Work efficiently with gloves on via the physical keys, or perform precise adjustments quickly via touchscreen. Flexible input for any working habit.

4 User-defined Keys, Less Steps, Faster Fieldwork
One-touch access to frequently used functions.

5 Multi-Mode Control, More Flexible on Site
Supports 600m long-range Bluetooth, WLAN for multi-device collaboration and WAN (SIM Card) connections.

6 8-pin Serial Port, Stable, Simple, Reliable
Provides stable external power in off-grid environments and reliable data transfer - no extra adapters needed.



NEW

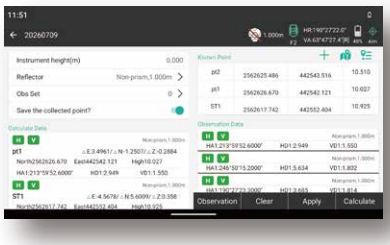
FIELD MASTER

All-in-One Software!
Perfectly compatible with nearly the entire product line.



All-in-One Capabilities

Covering every core need, including basic survey, free station, to axis, auto free station, stake out, CAD stake out, road, height-only offset and the other COGO programs.



Auto Free Station

Field Master automatically matches observations with coordinates to eliminate manual-operation errors, saves time and improves efficiency for station setup.



Flexible, User-Defined Shortcuts and Hotkeys

- Customized coding system, measure and draw the entity in real-time.
- Intuitive icons enable quick-access operations for streamlined field workflows.

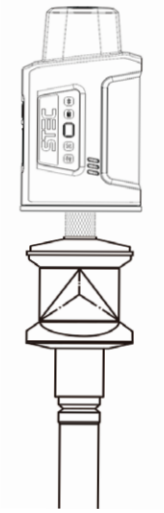


Freely Share

Send the collected data directly to the others. Ready for office teams to review and process - zero delays, no data gaps.

AXIS SP + XS + Field Master!

A Complete Pole-Driven Solution



RTK-Assist Lock | Never struggle to lock targets! Relocate and lock the prism immediately with RTK position.

IMU Tilt Measure | Leveling the pole perfectly is no longer required. Now you have the ability to observe the positions of the points that we couldn't have before.

Free Station by RTK | Even without any control points in the survey area, you can start your work accurately and easily.

High Flexbility | Works with all your STEC RTKs, no extra costs!

ANGLE

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

DISTANCE

w/ Reflector - Range	3500m
	5000m (Enhanced Mode)
- Accuracy	1+1ppm
- Measure Interval	Fine: 0.4s, Tracking: 0.3s
w/o Reflector - Range	1000m
- Accuracy	D<500m: 3+2ppm
	D>500m: 5+2ppm
- Measure Interval	0.4s-3s

TELESCOPIC

Image	Erect
Length	178mm
Diameter	40mm (EDM: 45mm)
Magnification	30x
Resolving Power	3″
Field of View	1°30′
Minimum Focus	1.2m
Reticle Illumination	5 Levels Adjustable

xTrak MOTORIZATION

Type	DC motor
Maximum Speed	180°/s
Face Changing	3s
Auto Prism Recognize	
Working Range	1.5-1000m
Aiming Scope	1°30′
Aiming Time	3s-5s
Accuracy	1″
Searching Window	Allows user-defined
Prism Search	
Working Range	1.5-300m
Typical Searching Time	5s
Range	V: 20°, H: 360°

COMPENSATOR

Tilt Sensor	Dual-axis liquid electric sensor
Range	4′
Accuracy	1″

CAMERA

Sensor	5 Megapixel CMOS sensor
Field of View	H: ±7.5°, V:±5.3°
Frame Rate	Up to 24 frames pers second

LEVEL

Circular Level	6′/2mm

LASER PLUMMET

Type	635nm, Class II
Accuracy	0.4mm at 1.5m height
Spot	2.0mm at 1.5m height

GENERAL

Display	5-inches TFT color touch screen, dual faces, 720*1280
Keys	27 keys with backlight
Guide Light	Red/green, 635nm/530nm
OS	Android 9.0
Internal Memory	RAM 3GB, ROM 32GB
CPU	MSM8953, 8 Core, 1.8GHz
I/O Interfaces	RS232, type-c, support flash disk
Bluetooth	BT5.1 BLE, 10m
Long-range Bluetooth	600m
WLAN	2.4G, 5G, WiFi
SIM Card	GSM, CDMA, WCDMA, TDD-LTE FDD-LTE
Battery	Li-70, 4720mAh, 68Wh, 2pcs Lithium-ion battery
Working Duration	4 hours for 1 battery
Charging Time	2.5 hours
Waterproof/Dustproof	IP65, 90% non-condensing
Operating Temperature	-20°C to +50°C
Storage Temperature	-40°C to +70°C
Dimension	220*235*386mm
Weight	7.4kg with battery

Model	Angular Accuracy	EDM Accuracy	Motorization	Auto Prism Recognition	Prism Search	Prism Track & Lock	Long-Range Bluetooth
AXIS 10	0.5″, 1″	1+1ppm	Torque Drive	1000m	300m	10°/s	600m
AXIS 10M	0.5″, 1″	0.8/1+1ppm	Torque Drive	3000m	300m	×	×
AXIS SP	1″, 2″	2+2ppm	Torque Drive	1000m	300m	20°/s	600m

PECIFICATIONS

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