



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

1"/2", 1+1ppm
Next-Gen Motorization
1000m APR
300m PS
Full Keypad
5.0 Inch Touch Screen
600m Remote Control



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 **180°/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

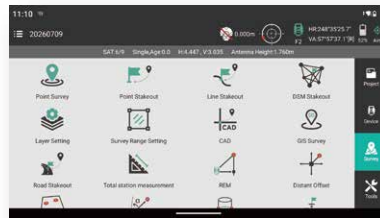
8-pin Serial Port, Stable, Simple, Reliable
Provides stable external power in off-grid environments and reliable data transfer - no extra adapters needed.



FIELD MASTER

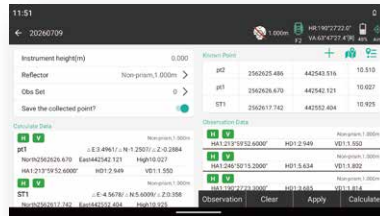
All-in-One Software!

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.



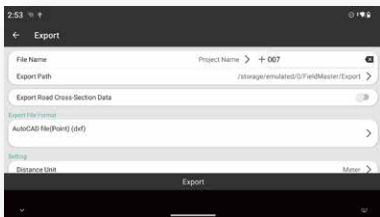
Auto Free Station

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 Flexibility** | 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 per second

LEVEL

Circular Level	6'/2mm
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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



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