



PRECISE X7 LITE
Enjoy a
PRECISE,
RELIABLE,
and **EASY**
experience!

Reliable Tilt Survey, Unbeatable Value.

Super-high Fix Rate

99.9%

M MATRIX

Enhanced by
the MATRIX ALGORITHM

All You Need for Surveying, All in One.

Think PRECISE!

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GNSS

Channels	1,408
GPS	L1C/A, L2C, L2P(Y), L5
GLONASS	L1, L2
BEIDOU	B1i, B2i, B3i, B1C, B2a, B2b
GALILEO	E1, E5a, E5b, E6
QZSS	L1, L2, L5, L6
SBAS	L1
Output frequency	Maximum 50Hz
Operating System	Linux
Initial time	< 5s (classical)
Initialization reliability	99.99%
Static H	$\pm(2.5\text{mm}+0.5\times10^{-6}\times\text{D})$
Static V	$\pm(5\text{mm}+0.5\times10^{-6}\times\text{D})$
RTK H	$\pm(8\text{mm}+1.0\times10^{-6}\times\text{D})$
RTK V	$\pm(15\text{mm}+1.0\times10^{-6}\times\text{D})$

PHYSICAL

Dimension	129*78mm
Weight	0.79kg
Indicator	Satellite Light Data Light Power Light Bluetooth Light
Operating temperature	-45°C ~ +75°C
Storage temperature	-55°C ~ +85°C
Waterproof&Dustproof	IP67
Vibration	IK08
Anti-Drop	Resistant to 1.8 meter drop with rod

COMMUNICATION

I/O Interface	1 x USB Type-c, support power supply, charging and transmission 1 x SMA radio antenna connector
Wireless Built-in Network	Support Bluetooth, handheld 4G, Wi-Fi, built-in 4G-LTE/, WEB terminal LTE-TDD: B38/B40/B41 LTE-FDD: B1/B3/B5/B7/B8/B20UMTS/HSPA+ B1/B8 GSM/GPRS/EDGE 900/1800 MHz Universal transceiver + Lora (2W) 410-470MHZ TRIMTALK450S, TRIMMARKIII, SOUTH
Internal radio power	
Built-in radio frequency	
Protocol	

IMU FEATURE

IMU	Support
IMU accuracy	Accuracy within 60° <2cm
IMU tilt angle	0°~120°

DATA FORMAT

Differential Format	RTCM2.X、RTCM3.X
GPS Output Format	NMEA 0183、Binary code

FUNCTION

Tilt survey	Support
PPK survey	Support
Buzzer	Support
Voice	Support
NFC	NFC flash link

STATIC STORAGE

Static data format	TXT
Storage space	8G

POWER SUPPLY

Battery capacity	7.4V, 7000mAh Battery
Battery life	Rover and CORS mode 20 hours Base mode 7.5 hours
External power supply	Support external power supply via USB port Support power bank