PERFORMANCE SPECIFICATIONS

Channels	1760
GPS	L1C/A, L2C, L2P, L5
BDS	B1l, B1C, B2a, B2b, B2l, B3l
GLONASS	L1CA, L2CA, L2P, L3
Galileo	E1, E5a, E5b, E5 AltBoc
QZSS	L1C/A, L1S, L2C, L5
NavlC	L5
SBAS*	L1, L2, L5
PPP	B2b-PPP

POSITIONING PERFORMANCE

High-Precision Static

Horizontal	+ mm + t	J. i ppm kivis
Vertical	3.5 mm + (0.4 ppm RMS
Static and Fast Static:		
Static allu rast Static.		

.2.5 mm + 0.5 ppm RMS ...5 mm + 0.5 ppm RMS Vertical

Post Processing Kinematic (PPK / Stop & Go)

Horizontal	3mm+1ppm RMS
Vertical	5mm+1ppm RMS
Initialization timeTypically 10 min f	for base and 5 min for rover
Initialization reliability	Typically > 99.9%

Code Differential GNSS Positioning

Horizontal	25cm+1ppm RMS
Vertical	50cm+1ppm RMS
SBAS	H: 0.5m V: 0.85m

Precise Point Positioning (PPP)

B2b-PPP... ..10cm(H), 20cm(V)

Real Time Kinematic (RTK) Single Baseline

Horizontal	8mm+1ppm RMS
Vertical	15mm+1ppm RMS
Initialization time	Typically < 10s
Initialization reliability	Typically > 99.99%
Positioning rate	1 Hz, 5 Hz and 10 Hz

Hi-Fix³

Horizontal	RTK+10mm / minute F	RM:
Vertical	RTK+20mm / minute F	RM:

Time to first Fix

Cold start	< 45 s
Hot start	< 30 s
Signal re-acquisition	< 2 s
Image Accuracy	
Stakeout	Typically 1cm
Imaga Maacuramant	2cm = 1/2cm(rango 2= 15 m)

Tilt Survey Performance⁴

Additional horizontal pole-tilt uncertainty typically less than 8mm+0.7mm/°tilt(0~60°)

HARDWARE

Physical	
Dimensions (W x H)	130mm×79mm
Weight	lighter than 0.97kg (2.14lb) within internal battery
Operation temperature	-40°C~+75°C (-40°F~+167°F)
Storage temperature	55°C~+85°C (-67°F~+185°F)
Storage temperature Auto-a	djust the working power to maintain the temperature
Humidity	100%, non-condensing
Water/dustproof IP68	B dustproof, protected from temporary immersion to
	depth of 1.0m (3.28ft)
Shock and vibration	MIL-STD-810G, 514.6
Anti-salt spray	MIL-STD-810G, 509.4, 96h
Free fall	MIL-STD-810G, 516.6, designed to survive
	a 2m/6 56ft) natural fall onto concrete

Charging:using standard smartphone chargers or external power banks (Support 5V 2.8A Type-C USB external charging)

ELECTRICAL

Internal Battery

Internal 7.2V / 6900mAh Built-in lithium-ion rechargeable battery. RTK rover(UHF/Cellular): up to 15 hours.

External power

Using standard smartphone chargers or external power banks. (Support 5V 2.8A Type-C USB external charging)

COMMUNICATION

I/O Interface1 × USB	type C port, 1 × SMA antenna port, 1×Nano SIM card slot
Network Mode	Full band support for cellular mobile network
	(4G, LTE, WCDMA, EDGE, GPRS, GSM)
WiFi	Frequency 2.4GHz, Supports 802.11 b/g/n
Bluetooth	BT 4.2/2.1+EDR, 2.4GHz
NFC	Near Field Communication for device touch pairing
Internal UHF Radio	
Power	
Frequency	410~470MHz
Protocols: HI-TARGET, TRIMTALK4	50S, TRIMMARK III, SATEL-3AS, TRANSEOT, etc.
Working Range	Typically 3~5km, optimal 8~15km
Channels	

CAMERA

PixelDual-	camera, 2MP & 5MP
FunctionReal scene stakeout, image measurement, wor	king distance 2~15m

CONTROL PANEL

Physical button	1
LED Lights Satellite, signal, po	wer

SYSTEM CONFIGURATION

Storage	8G ROM internal stroage
Output format	ASCII: NMEA-0183
Output rate	1Hz~20Hz
Static data format	GNS, Rinex
Real Time Kinematic (RTK)	RTCM3.X
Network Mode	VRS, FKP, MAC, Support NTRIP protocol

[1]SBAS service can be provided by firmware upgrade, PPP service is not available in all regions, check with your local sales representative for more information.

[2]The measurement accuracy, precision, reliability and initialization time depend on various factors, including tilt angle, number of satellites, geometric distribution, observation time, atmospheric conditions and multi-path validation, etc. The data are derived under normal conditions.

[3] Accuracies are dependent on GNSS satellite availability. Hi-Fix Positioning ends after 5 minutes without differential data. Hi-Fix is not available in all regions, check with your local sales representative for more information

[4]Irregular operations such as rapid rotation and high-intensity vibration may affect the inertial navigation accuracy.

[5] The battery operating time is related to the operating environment, operating temperature and battery life.

Descriptions and Specifications are subject to change without notice









AUTHORIZED DISTRIBUTION PARTNER

25J214

Hi-Target Surveying Instrument Co., Ltd.

