Technical Parameters

GNSS Feature	Specification	
GNSS Signal[1]	Channel	1408
	GPS	L1C/A, L1C, L2P(Y), L2C, L5
	BDS	B1I, B2I, B3I, B1C, B2a, B2b
	GLONASS	L1, L2, L3
	Galileo	E1, E5a, E5b, E6
	QZSS	L1, L2, L5, L6*
	NavIC	L5
	SBAS	L1, L2, L5
	PPP	B2b-PPP, Galileo E6-HAS
Positioning Performance[2]	High-Precision Static	H: 2.5 mm + 0.1 ppm RMS | V: 3.5 mm + 0.4 ppm RMS
	Static and Fast Static	H: 2.5 mm + 0.5ppm RMS | V: 5 mm + 0.5ppm RMS
	Post Processing Kinematic (PPK / Stop & Go)	H: 8mm + 1ppm RMS | V: 15mm + 1ppm RMS
		Initialization time: Typically 10 min for base and 5 min for rover
		Initialization reliability: Typically>99.9%
	PPP	H: 10cm | V: 20cm
	Code differential GNSS positioning	H: ±0.25m+1ppm RMS | V: ±0.5m+1ppm RMS SBAS: 0.5m (H), 0.85m (V)"
	Real Time Kinematic (RTK)	H: 8mm+1ppm RMS | V: 15mm+1ppm RMS
		Initialization time: Typically <10s | Initialization reliability: Typically > 99.9%"
	Positioning rate	1 Hz, 5 Hz and 10 Hz
	Time to first Fix	Cold start:< 45s | Hot start:< 30s | Signal re-acquisition:< 2s
	Hi-Fix[3]	H: RTK+10mm / minute RMS | V: RTK+20mm / minute RMS
	Tilt Survey Performance[4]	Additional horizontal pole-tilt uncertainty typically less than 8mm+0.7mm/°tilt(0~60°)
Physical	Dimensions (W x H)	132mm × 67mm
	Weight	≤ 0.8kg(includes battery)
	Operation temperature	-30℃~+70℃
	Storage temperature	-40℃~+80℃
	Humidity	100% non-condensing
	Water/dustproof	IP68 dustproof, protected from temporary immersion to a depth of 1m (3.28ft)
	Free fall	Designed to survive a 2m(6.56ft) natural fall onto concrete
Electrical	Internal Battery[5]	Internal 7.2V / 6900mAh lithium-ion rechargeable battery
		RTK rover(UHF/Cellular): up to 24 hours
	External power	Using standard smartphone chargers or external power banks
		(Support 5V 2.8A Type-C USB external charging)
Communication	I/O Interface	1 × USB type C port; 1 × SMA antenna port
	Wi-Fi	Frequency 2.4GHz, supports 802.11 b/g/n
	Bluetooth	4.2 / 2.1+EDR, 2.4GHz
	NFC	Near field communication for device touch pairing
	Internal UHF Radio	Frequence: 410MHz~470MHz
		Protocol: HI-TARGET, TRIMTALK450S, TRIMMARK III, SATEL-3AS, TRANSEOT, etc.
		Working Range: Typically 3~5km, optimal 8~15km
		Channel: 116（16 scalable）
Control Panel	Physical button	1
	LED Lights	Satellite, Signal, Power
System Configuration	Storage	16GB ROM internal storage
	Output format	ASCII: NMEA-0183
	Output rate	1Hz~20Hz
	Static data format	GNS, Rinex
	Real Time Kinematic (RTK)	RTCM2.X, RTCM3.X
	Network Mode	VRS, FKP, MAC, Support NTRIP protocol

Note:
[1]QZSS L6 can be provided by firmware upgrade.
[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

25J323

Hi-Target Surveying Instrument Co. Ltd

ADD.: Hi-Target Headquarters, No. 6, Hongchuang 2nd Street, Nancun Town, Panyu District, 511442 Guangzhou, China.
www.hi-target.com.cn +86-20-28688296 sales@hi-target.com.cn

Hi-Target

C10

GNSS Receiver

C10

Tailored for field engineering tasks

C10 is a new-generation lightweight GNSS RTK system, purpose-built for the construction and engineering industry. Designed with portability, ease of use, and durability in mind, it integrates cutting-edge GNSS positioning capabilities with a user-friendly software ecosystem.

Whether for seasoned surveyors or on-site engineers with little surveying experience, the C10 offers reliable and accurate data collection in even the most demanding environments—making it the perfect solution for field construction measurement and site management.

Features

• Compact and Tough. Always Ready

C10 is compact enough to fit in your palm, making it perfect for fast-paced, mobile construction work. Engineered with industrial-grade materials and IP68-rated protection, it withstands mud, rain, and impact with ease.

• Intuitive Operation

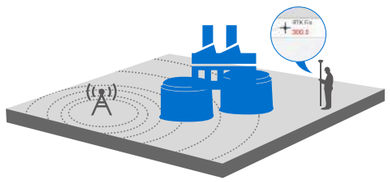
Thanks to its user-friendly interface and simplified workflow, C10 is easy to operate—even for non-professionals—helping reduce training time and improve on-site productivity.

• Powerful GNSS Performance

Equipped with an advanced GNSS chipset, C10 supports full-constellation and full-frequency tracking—delivering high-precision positioning even in obstructed or reflective environments.

• Hi-Fix Tech: Uninterrupted Positioning

Even when RTK base or VRS network signals are lost, Hi-Target's proprietary Hi-Fix technology ensures continuous, high-quality data—keeping your work uninterrupted and reliable.



Hi-Construction

Easy surveying for construction

Hi-Construction field software is tailored for entry-level construction users.

Its clean interface and streamlined workflow make point collection and stakeout tasks easier, even with minimal training.