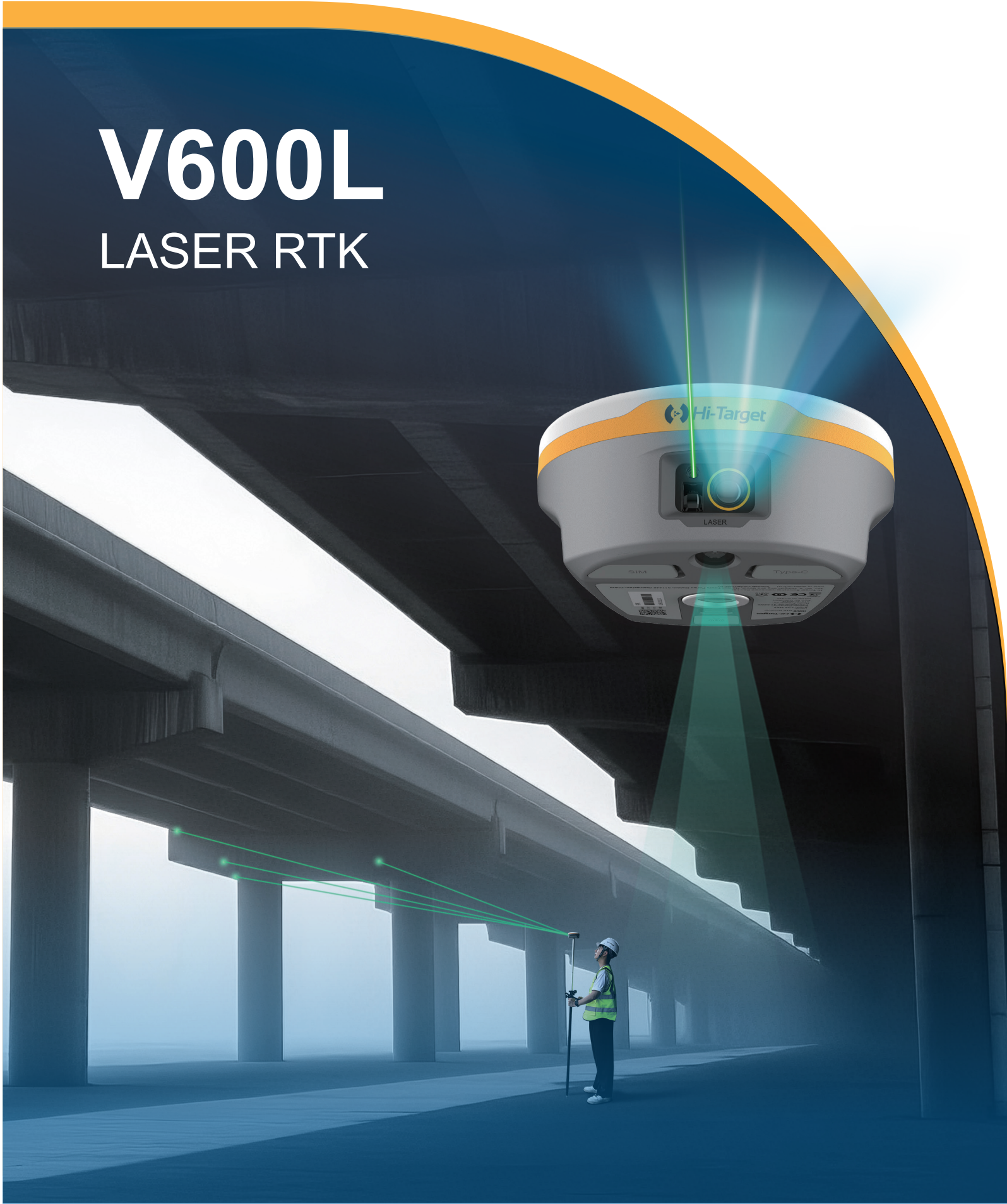


TECHNICAL SPECIFICATIONS

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 + 0.5 ppm RMS		V: 5 mm + 0.5 ppm RMS
	Post Processing Kinematic (PPK / Stop & Go)	H: 8 mm + 1 ppm RMS		V: 15 mm + 1 ppm RMS
		Initialization time: typically 10 min for base and 5 min for rover Initialization reliability: typically>99.9%		
	PPP	H: 10 cm		V: 20 cm
	Code Differential GNSS Positioning	H: ±0.25 m+1 ppm RMS SBAS: 0.5 m (H), 0.85 m (V)		V: ±0.5 m+1 ppm RMS
	Real Time Kinematic (RTK)	H: 8 mm+1 ppm RMS		V:15 mm+1 ppm RMS
		Initialization time: typically < 10 s Initialization reliability: typically > 99.9%		
	Hi-Fix ^[3]	H: RTK+10 mm / minute RMS		V:RTK+20 mm / minute RMS
	Time to First Fix ^[4]	Cold start: < 45 s	Hot start: < 30 s	Signal re-acquisition: < 2 s
	Positioning Rate	1 Hz, 5 Hz and 10 Hz		
	Tilt Survey Performance	200 Hz, auto calibration, additional horizontal pole-tilt uncertainty typically less than H: 8 mm+0.7 mm/°tilt(0~60°); V: 15 mm+0.7 mm/°tilt (0~60°)		
	Image Stakeout Accuracy	2 cm accuracy		
Physical	Laser Measurement	2 cm accuracy within 10 m		
	Dimensions (W x H)	130.97 mm × 68.7 mm		
	Weight	≤ 0.73 kg (1.61 lb)		
	Operation Temperature	-40 C ~ +75 C (-40°F~ +167°F)		
	Storage Temperature	-55 C ~ +85 C (-67°F ~ +185°F)		
	Humidity	100% non-condensing		
	IP Rating	IP68 (according to IEC 60529)		
	Shock and Vibration	MIL-STD-810G, 514.6		
	Free Fall	Designed to survive a 1.8 m natural fall onto concrete		
Electrical	Internal Battery ^[5]	RTK rover(UHF/GSM): up to 20 h; UHF RTK Base: up to 13 h; GSM RTK Base: up to 17 h		
	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, 1 × Nano SIM card slot		
	Wi-Fi	Frequency 2.4 GHz, supports 802.11 a/b/g/n/ac/ax		
	Bluetooth	BT 5.2, 2.4 GHz		
	NFC	Near field communication for device touch pairing		
	Network Modem	TDD-LTE, FDD-LTE, GSM		
		Power: 1 W / 1.5 W adjustable		
		Frequency: 410 MHz~470 MHz		
		Protocol: LoRa, HI-TARGET, TRIMTALK450S, TRIMMARK III, SATEL-3AS, TRANSEOT, etc. Working range: 15-20 km ^[6] Channel: 116 (16 scalable)		
Laser	Laser Product Classification	Class 3R		
Camera	Front Camera	Support image-assisted measurement and AR stakeout		
	Bottom Camera	Support AR stakeout		
Control Panel	Physical Button	1		
	LED Lights	Satellite, signal, power		
System Configuration	Storage	64 GB 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, CMR		
	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]Rechargeable built-in 7.2V / 4900 mAh lithium battery; operating time varies with environment, temperature, and battery condition.
[6] This distance can be achieved when using a super base station.
*Descriptions and Specifications are subject to change without notice



V600L LASER RTK

Hi-Target next-generation Laser RTK that combines GNSS, IMU, dual-camera, and visible laser technologies for immersive, efficient, and precise fieldwork—especially in environments like under bridges, near fences, or across ditches.

With visualized laser targeting and non-contact measurement, it unlocks a new level of accessibility and safety in obstructed, complex, or semi-enclosed terrains.



High-Precision Laser Surveying — Even Without GNSS

By fusing laser and visual technologies, our system delivers non-contact measurements with up to 2 cm accuracy within 10 m. Operate confidently in GNSS-denied environments such as under bridges, inside fenced zones, or across ditches, all from a safe and convenient distance.



IMU You Can Trust — No Initialization Needed

With automotive-grade IMU, no initialization needed. Start measuring instantly with up to 40% better stability and accuracy, even on rugged terrain.

Built-in LoRa Radio, Cross-Brand Compatibility

Integrated LoRa transceiver supports multiple protocols and brands, delivering over 15 km working range in typical environments.



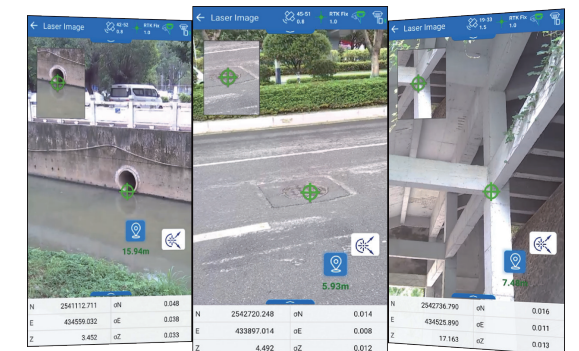
Hi-Survey Software

Survey Data Collection Software

Hi-Survey is an Android software that is designed for all types of land survey and road engineering projects in the field. It is compatible with Hi-Target professional controllers, Android phones, tablets and other third-party Android devices. It is a sleek and easy-to-use software that supports the operating of big data with built-in tools. With customized industrial application solutions, more possibilities are created for users.

Visual Laser Targeting

Seamlessly integrates laser and imaging technologies displaying the laser spot directly on the screen for fast, intuitive aiming. No guesswork, no extra steps.



Real-Scene CAD Stakeout

Combines a high-performance CAD engine with real-world imagery to deliver a visual stakeout experience. Stake with confidence and boost efficiency by up to 50%.



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