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HI-TARGET

V30
Dual-Frequency GNSS RTK System

Thank to Hi-Target engineer's more than 3-decade endeavor in GPS/GNSS industry, Hi-Target has launched out a new generation of GNSS RTK system V30. This model is designed to meet hgh quality standard but with low-cost solution for survey. It does not only track GPS, GLONASS, SBAS, but also track GALILEO sattelite constellations for future application. In addition, V30 is powered by a 4-cell, long endurance Li-ion battery, to support longer working time than other GNSS RTK instruments on the market.

V30's housing is made of General Eletric Xenoy 5220U polymer resin to withstand severe and harsh invironment conditions and the special sealing technology makes it distinguished by its excellent waterproofness & dustproofness. Besides, the special latching technology on flexible flat cables ensures trouble-free operation under impact or vibration.

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Built-in Transceiver UHF Radio

· With transceiver UHF radio, you can use V30 as a rover or a aseby simply switching the working mode. There are 2W Hi-Target and 1W PCCUHF radios as options for your application. 2W transceiver internal radio is an excellent solution for UHF RTK operations. 1W radio is a good choice to be used for other brand instruments having TimTalk compatible radio.

Multi Constellation Tracking

· Fully Compatible to GPS, GLONASS, SBAS and GALLILEO satellite constellations available with onboard 220 channels.

Automated Operation

· Once setting is finished, ”push the button” does the rest to get ready for rover operation. No more torture of ”Several Step to Make the System Ready” for every single operation.

Seamless Operation in CORS Networks

· Works perfectly with corrections from CORS networks in any versoins of CMR or RTCM, without needing to interpretate the message but reading seamlessly.

Powerful Li-ion Battery

· Working time for different working modes
Static: 13 to 15 hours
RTK Rover (UHF or GPRS): 10 to 12 hours
RTK Base: 8 to 10 hours

Excellent Anti-Shock, Waterproof and Dustproof Performance

· IP67




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Measurements	Advanced Trimble Maxwell 6 survey chip with 220 channels	
	High precision multiple correlator for GNSS pseudorange measurements.	
	Low noise GNNS carrier phase measurements with <1mm precesion in 1Hz bandwith, proven low elevation tracking technology	
	Signal noise ratios reported in dB-Hz	
	Satelite Signals Tracked Simultaneously	GPS: L1 C/A, L2C, L2E, L5 GLONASS: L1 C/A, L1P, L2 C/A (for GLONASS only) SBAS: WAAS, MSAS, EGNOS GIOVE-A: L1 BOC, E5A, E5B, E5A|tBOC (optional) GIOVE-B: L1 CBOC, E5A, E5B, E5A|tBOC (optional) GALILEO: upgrade reserves
Accuracy	**Static and Fast Static GNSS Surveying**	Horizontal: ± (2.5mm+1ppm RMS) Vertical: ± (5mm+1ppm RMS)
	WAAS Differential Surveying	Typically <3m
	Stop and Go Surveying	Horizontal: ± (25cm+1ppm RMS) Vertical: ±(50cm+1ppm RMS) Initialization time: typically 10 min. for base while 5 min. for rover Initialization reliability: typically >99.9%
	RTK Surveying	Horizontal: ± (25cm+1ppm RMS) Vertical: ±(50cm+1ppm RMS) Initialization time: typically 10 min. for base and 5 min. for rover Initialization reliability: typically >99.9%
Hardware	**Physical**	Dimensions (WxH): ø 19.5cm x 10x4cm Weight: 1.3kg (2.86lb) with internal battery, radio and UHF antenna. Operation Temperature: -40°C to +65°C (-40°F to + 149°F) Storage Temperature: -40°C to +75°C (-40°F to + 167°F) Water/dustproof: IP67 dustproof, protected from temporary immersion to depth of 1m.
	Electrical	Enable to connect DC 6-36V external powerinput. Power consumption 2.5w Automatic Switching between internal and external power. 2 pcs recharge- and removeable 7.4V, 4400mAh Li-ion battery Operationtime on internal battery: Static: minimum 13 hours RTK Rover (UHF/GPRS/3G): 10-12 hours RTK Base: 8-10 hours

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Hardware	**I/O interface**	1 x Bluetooth 1 x standard USB2.0 port 1 x RS232 serial port 1 x DC power input (8-pin & 5-pin)
Comunication and Data Storage	**Data Storage**	64MB internal memory
	Data formats	(1Hz positioning output, up to 50 Hz – depends on installed options) CMR: sCMRx, CMR, CMR+ input and output RTCM: RTCM 2.1, 2.2, 2.3, 3.0, 3.1 input and output Navigation outputs ASCII: NMEA-0183 GSV, AVR, RMC , HDT, VGK, VHD, ROT, GGK, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GRS, GBS Navigation output Binary: GSOF 1 Pulse Per Second Output
	GPRS/GSM or 3G	Fully integrated, fully sealed internal GPRS/GSM or 3G network RTK (via CORS) range 20-50km.
	UHF Radio Communication	Compatible with V8, HD6000 and other Hi-Target products with radio in 460MHz. With differential transmit-receive function and transmit power adjustable among 0.1w, 1w and 2w. Radio frequency range: 455MHz ~ 465MHz or 440MHz ~ 450MHz, with 100 flexible switching channels. With top 19.2Kbps wireless transmit speed. Working range: 3-5km typical, 8-10km optimal
	PCC Internal Radio (optional)	Compatible with Trimble and Leica. With differential transmit-receive function and transmit power adjustable among 0.1w, 0.5w and 1w. Radio frequency range: 430MHz ~ 470MHz, with 32 flexible switching channels. The frequency list can by customized. With top 19.2Kbps wireless transmit speed. Supported protocols:Transparent EOT Timeout / TransparentEOC Character / Packet Switched / TRIMTALK 450S / TRIMMARK II/IIe / TRIMTALK 3 / TT450S / SATEL. Working range: 3-5km typical, 8-10km optimal
	External PCC Radio (optional)	Input power: DC 9~30V With transmit-receive function, transmit power adjustable and the top transmit power optional between 4W to 35W. Radio frequency range: 430MHz ~ 470MHz, with 32 flexible switching channels. The frequency list can by customized. With top 19.2Kbps wireless transmit speed. Supported protocols:Transparent EOT Timeout / TransparentEOC Character / Packet Switched / TRIMTALK 450S / TRIMMARK II/IIe / TRIMTALK 3 / TT450S / SATEL.

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