

# VNet 8

## GNSS Reference Receiver



## • VNet8 Reference Receiver

The Hi-Target VNet8 GNSS reference receiver offers an industry-leading 1408 channels for excellent GNSS multi-constellation tracking performance. On the strength of Hi-Target's sophisticated GNSS technology and the years of experiences in establishing CORS/VRS system, the VNet8 will provide you with reliable communication, better performance, stronger stability and safety.



## • Key Features



Brand new housing and multiple I/O interface enhance the stability and functional expansionary.



Embedded OS firewall and encrypted communication ensure your data privacy and security.



Designed as a perfect member of distributed system, making the CORS system support large-scale network and massive online users.



High speed micro CPU, 64GB internal storage and 12500mAh internal battery provide you with better user experience.



Total-star constellation VRS technology and high precision error correction technology support longer baseline processing and reliable correction data.

## • Specifications

<b>GNSS Channels</b>	1408		
<b>GNSS Feature</b>	GPS: L1C/A/L1C/L2P(Y)/L2C/L5 BDS: B1I/B2I/B3I/B1C/B2a/B2b GLONASS: G1/G2/G3 Galileo: E1/E5a/E5b/E6 QZSS: L1C/A/L1C/L2C/L5 NavIC: L5 SBAS: L1C/A	<b>I/O Interface</b>	3 X RS232 serial port, 2 X USB port, 1 X 485 port 1 X Ethernet port(RJ-45), 1 X WiFi Host(802.11b/g/n) 2 X SMA port(1 for PPS and 1 for 4G modem antenna) 2 X TNC port
<b>Positioning Performance</b>	High-precision static: 2.5 mm + 0.1 ppm RMS (H) 3.5 mm + 0.4 ppm RMS (V) Static and fast static: 2.5 mm + 0.5 ppm RMS (H) 5mm + 0.5 ppm RMS (V) Network RTK: 8mm + 0.5ppm RMS (H) 15mm + 0.5ppm RMS (V) Initialization time: Typically 2-10s Initialization reliability: Typically > 99.9% Raw data updating rate: Up to 50Hz Position updating rate: Up to 50Hz	<b>User Interface</b>	4 X physical buttons 4 X LED lamps, OLED display, 128 X 64 pixels 248mm(L) X 153mm(W) X 68mm(H) Operating temperature -40 C ~75 C Storage temperature -40 C ~80 C Humidity: 100%
<b>Data Format</b>	Static data: GNS, RINEX RTK correction format: CMR, RTCM2.X, RTCM3.0, RTCM3.2 NMEA-0183	<b>Physical Features</b>	Proof against water, sand and dust: IP68 and MIL-STD-810G -Method510.5 – Procedure I Vibration: MIL-STD-810G-Method Figure514.6C-1 and Table 514.6C-II Immersion: MIL-STD-810G, Method 512.5-Procedure I Weight=2.5Kg including 480g internal battery
<b>Storage</b>	On board memory: 64GB internal storage + TF card/USB extension	<b>Power Input</b>	7V – 36V, DC / 2A
<b>Operation</b>	Web-client management via Ethernet, Wi-Fi	<b>Power</b>	<7W, less than 5W without using internal 3G/2G wireless modem
		<b>Battery</b>	Internal 12500mAh lithium battery Duration: More than 15 hours
		<b>Ethernet Communication</b>	RJ45 Jack, support HTTP, NTRIP, Unlimited streams of correction transmitting and threads of data logging



### Hi-Target Surveying Instrument Co.,Ltd

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