



**LATNET**  
TECHNOLOGIES LTD

# CHCNAV GNSS Comparison Chart

**CHCNAV**  
Authorized Reseller



	i93	i89	i83	i73+	iBase
Signal Tracking	Multi Frequency	Multi Frequency	Multi Frequency	Multi Frequency	Multi Frequency
Channels	1408	1408	1408	1408	1408
GPS / GLONASS / Galileo / BeiDou / QZSS / SBAS	✓✓✓✓✓✓✓✓	✓✓✓✓✓✓✓✓	✓✓✓✓✓✓✓✓	✓✓✓✓✓✓✓✓	✓✓✓✓✓✓✓✓
Visual Stakeout	✓	✓	✗	✗	✗
Visual Survey / 3D Modelling	✓✓	✓✓ <sup>1</sup>	✗	✗	✗
2 Cameras Global shutter with 2 MP & 5 MP, FOV 75°, 25Fps	✓✓	✓✓	✗	✗	✗
Tilt compensation auto IMU	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz
RTK	H 8 mm + 1 ppm	8 mm + 1 ppm	8 mm + 1 ppm	8 mm + 1 ppm	8 mm + 1 ppm
	V 15 mm + 1 ppm	15 mm + 1 ppm	15 mm + 1 ppm	15 mm + 1 ppm	15 mm + 1 ppm
Static and rapid static	H 2.5 mm + 0.5 ppm	2.5 mm + 0.5 ppm	2.5 mm + 0.5 ppm	2.5 mm + 0.5 ppm	2.5 mm + 0.5 ppm
	V 5 mm + 0.5 ppm	5 mm + 0.5 ppm	5 mm + 0.5 ppm	5 mm + 0.5 ppm	5 mm + 0.5 ppm
High-precision static	H 2.5 mm + 0.1 ppm	2.5 mm + 0.1 ppm	2.5 mm + 0.1 ppm	2.5 mm + 0.1 ppm	2.5 mm + 0.1 ppm
	V 3.5 mm + 0.4 ppm	3.5 mm + 0.4 ppm	3.5 mm + 0.4 ppm	3.5 mm + 0.4 ppm	3.5 mm + 0.4 ppm
Initialization reliability	> 99.9%	> 99.9%	> 99.9%	> 99.9%	> 99.9%
Position update rate	1 Hz, 5 Hz, 10Hz	1 Hz, 5 Hz, 10Hz	1 Hz, 5 Hz, 10Hz	1 Hz, 5 Hz, 10Hz	1 Hz, 5 Hz, 10Hz
RTK reference station functionality	✓	✓	✓	✓	✓
Cellular / UHF radio (Rx/Tx) modem	4G / 2 W	✗ / 1 W	4G / 2 W	✗ / 1W	4G / 5 W
UHF Protocol (CHC / Satel / Transparent / TT450)	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓
Data formats RTCM 2.x / RTCM 3.x / CMR+ / CHC / RTD	✓✓✓✓✓✓✓	✓✓✓✓✓✓✓	✓✓✓✓✓✓✓	✓✓✓✓✓✓✓	✓✓✓✓✓✓✓
Ports: 7-Pin Lemo RS232 / USB – C / UHF antenna (TNC)	✓✓✓✓	✗ / ✓✓✓	✓✓✓✓	✗ / ✓✓✓	✓✓✓✓
User interface (buttons / Leds / display)	2 / 2 / OLED Color	2 / 4 / ✗	2 / 2 / OLED Color	2 / 4 / ✗	2 / 2 / OLED
Operating temperature	-40°C to +65°	-40°C to +65°	-40°C to +65°	-40°C to +65°	-40°C to +65°
Internal storage	32 GB	8 GB	8 GB	8 GB	8 GB
Environmental proof against water, sand and dust	IP68	IP68	IP68	IP68	IP67
Weight (with batteries)	1.15 kg	0.75 kg	1.15 kg	0.73 kg	1.73 kg
Operating time (Rover / Base)	34 h / 16 h	16.5 h / 10 h	34 h / 16 h	24 h / 10.5 h	25 h / 8-12 h
Battery type	Built in 9600 mAh	Built in 4900 mAh	Built in 9600 mAh	Built in 6800 mAh	Hot swappable 2x 7000 mAh
Charging type	USB – C	USB – C	USB – C	USB – C	Battery charger
Wireless connection (NFC / Bluetooth / Wi-Fi)	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓
Static logging / NMEA output	✓✓	✓✓	✓✓	✓✓	✓✓

<sup>1</sup> 3D Modeling feature can be activated through function code.  
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