



KORT RTK GNSS RECEIVER

NORTH SURVEYOR 5.0

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VORTH

Full RTK Productivity in your hands Outstanding GNSS Performance Unique detachable UHF receiver Best Cost / Benefit relation in the market Works as Network or UHF RTK Rover Operates as field UHF RTK Base Rugged and Comfortable design Power for the most demanding tasks NMEA format for Software flexibility External GNSS Antenna Support SIM Card Support

Portable Flexibility Total Power Control

Get hold on your investment and activate according to your needs - GPS L1

- GPS L1+L2
- GPS L1+L2 RTK
- GPS L1+L2 + GLONASS L1 RTK
- GPS L1+L2 + GLONASS L1+L2 RTK
- RTK with CORS Network
- RTK with UHF Datalink
- and more...

330 CHANNELS DOUBLE FREQUENCY MILLIMETRIC ACCURACY





KORT RTK GNSS RECEIVER

330 CHANNELS DOUBLE FREQUENCY

Kort GNSS BTK Handheld Beceiver	Hardware	
	Physical	
Dual-frequency GNSS RTK Receiver with 330 channels	Dimensions (WxHxD)	95 mm x 210 mm x 45 mm
Dual-frequency GNSS internal and external antenna support	Weight	575 g with internal battery
External Receiving Radiomodem compatible	Temperature	
Works as Network or UHF Rover with external radiomodem	Operating	-20 °C to +60 °C
Works as Base, supporting external radio modem	Storage	-30 °C to +70 °C
Sunlight readable 3.7" transflective HD display	Charging	0 °C to +45 °C
Integrated 3G / GPRS cellular modem.	Relative humidity	100% condensing
Integrated Bluetooth® V2.1 Class 3 and WIFI® b/a wireless technology	Maximum operating altitude	3.300m
I ong life battery of 6800mAb	Maximum storage altitude	5,000m
• Windows Mobile® 6 X	Water and dust	IP 67 Water and Dust proof
Rugged and weather-resistant design	Shock (non-operating)	1.5 m drop over concrete
Standard Accessories	Vibration	FIG 514 5C-1
North Kort RTK handheld with Microsoft Windows Mobile 6 X	Electrical	
Rugged Transport Case	Hardware	
Rechargeable battery International AC charger	Processor	Marvell PXA310 (624MHz)
Mini USB and Serial Port output in LEMO standard	RAM	256 MB
•3.2 Megapixels Digital Camera.	ROM	256 MB
Screen Protector, Stylus pen	Removable Media	Micro SD up to 16 GB
Antenna port dust cover		
Digital Quick Start Guide	Battery	
External GNSS antenna with 1.5 m antenna cable and Pole Bracket (Optional)	Туре	Rechargeable, removable Li-Ion
All standard accessories are also available to order separately.	Capacity	6,800mAh
Control System languages options	Charge time	4 hours (typical)
English, Spanish, French, German, Italian, Portuguese	Battery run-time per battery	9.5 / 8.0 hours. 6 hours with GPRS on.
	Standby time (external GNSS antenna disconnected)	50 days
North Software Options	Buttons & Controls	4 Buttons
• North GIS Surveyor™	Connectors & Inputs	Internal microphone and speaker. Mini
North RTK Surveyor™		USB. I/O Serial
Carlson SurvCE™		Mini SD Card Socket, SIM Socket
Microsurvey Field Genius™		LEMO HGG.0b, MCX (GNSS)
• Esri ArcPad ™	Camera	
Performance Specifications	Still mode	Autofocus 3.5 MP
Receiver	Still image format	JPG
GNSS RTK on board	Video mode	Up to VGA resolution
North Stealth/CK Survey GNSS chip board with 330 Channels	Video file format	WMV with audio
North Stealth Multipath Shield technology, for maximum noise filtering.	Cellular & Wireless	
Multiple radio samplers gives the most accurate band tuning available.	GSM	900/1800/1900MHz
Patented SAW filtering method for Doppler signal sampling.	3G (Optional)	850/900/2100/3600 MHz
Always-To-Date system allows updates of the system for the forseeable future.	GPRS	850/900/1800/1900/2100 MHz
High precision multicorrelating GNSS pseudorange measurements.	Wi-Fi	IEEE 802.11b/g 1–54 Mbps
GNSS carrier phase with low noise with <1 mm precision in a 1 Hz bandwidth	Bluetooth	Version 2.1 + EDR Class 3
North Low-Track Technology for increased reception	Display	
Signal-to-Noise ratios reported in dB-Hz	Туре	HD Transflective LED-backlit Retina LCD
Satellite signals tracked simultaneously:	Size	3.7 in diagonal
GPS: L1C/A, L1C, L1E, L2C, L2E and L5	Resolution	480X640
GLONASS: L1C/A, L1P and L2C/A	Luminance	280 cd/m2
GALILEO: L1, L2 (optional)		
COMPASS: L1C/A and L2C (optional)	Notes:	
SBAS: EGNOS, WAAS, MSAS, GAGAN	- Accuracy, TTFF and reliability specifications may be affected by multipath, satellite geometry and atmospheric conditions.	
Sampling Rate: 10Hz – 0.1 second, (20Hz optional)	- Specifications assume at least 5 satellites and follow up of recommended practices	
Code differential positioning (DGPS) with external antenna.	- Specifications are subject to change without previous notice. This description may include typographical errors	
Horizontal ±0.25 m + 1 ppm RMS	- UHF type approvals are country specific	
Vertical ±0.50 m + 1 ppm RMS		
Postprocessed static (PPS) and fast static (PPK) surveying with external antenna.	Authorized Dealer:	
Horizontal ±4 mm + 1 ppm RMS		
Vertical ±4 mm + 1 ppm RMS		
Real Time Kinematic (RTK) surveying with external antenna.		
Horizontal ±5 mm + 1 ppm RMS		
Vertical ±5 mm + 1 ppm RMS		
Initialization time typically <10 seconds	_	
Initialization reliability typically >99 9%		
Protocols	_	
RTCM 2.1, 2.2, 2.3, 3.0 and 3.1, CRM, CRM+ input and output		
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