

# VALKIR 7 PC GNSS GIS RECEIVER



Rugged and Lightweight design  
Comfortable 8" Capacitive Touchscreen  
64 Bit Quad-Core Processor  
Full Windows 10 PC Operative System  
Power for the most demanding tasks  
Accurate GNSS real time receiver  
NMEA format for Software flexibility  
Supports Carlson SurvPC, GIS, RTK,  
Echosounder software and more.  
With 2 standard USB ports HDMI  
Works as standalone GIS receiver or as  
RTK or Field UAV controller

GPS, GLONASS, SBAS, DGPS

WINDOWS 10 DESKTOP OS

# VALKIR 7 PC GNSS GIS RECEIVER

## WINDOWS 10 DESKTOP OS

### Valkir 7 GNSS Handheld Receiver / Tablet Controller

#### System Overview

- GNSS receiver with internal antenna.
- Sunlight readable 8" transfective OLED HD Retina display
- Integrated 3G / EDGE cellular modem.
- Integrated Wi-Fi and Bluetooth 4@ wireless technology
- 5 megapixel autofocus back camera / 2 megapixels frontal
- Windows 10 PC Operative System®
- IP67 Rugged and weather-resistant design

#### Standard Set

- North Valkir 7 tablet with Microsoft Windows 10 PC Operative System (Android Option)
- Rechargeable removable battery
- USB Data Cable (mini USB)
- International AC charger
- Electronic Stylus
- Any language and software supported by Windows 10 (or Android optional)

#### Software recommended.

- North Depth Surveyor™
- Carlson SurvPC™
- Esri ArcView™
- North TopView PC™
- Pythagoras GIS™

#### Performance Specifications

##### Measurements

- North Stealth Multipath Shield technology
- GNSS Receiver with 75 Channels, A-GPS and PPP
- Patented SAW filtering method for Doppler signal sampling
- Satellite signals tracked simultaneously:
  - GPS: L1C/A
  - GLONASS: L1C/A, L1P
  - COMPASS: L1C/A
  - SBAS (WAAS/EGNOS/MSAS): L1C/A
- 1 Hz (positioning), 1 Hz (stakeout)
- 1 Hz data storage
- Standalone Horizontal accuracy: 2.5m
- Standalone vertical accuracy: 5m
- SBAS Horizontal accuracy: 1.5m
- SBAS vertical accuracy: 3m



Authorized Dealer:

### Hardware

#### Physical

Dimensions (WxHxD)	159mm x 233mm x 21mm
Weight	350 g with battery

#### Temperature

Operating	-20 °C to +60 °C
Storage	-30 °C to +70 °C
Charging	0 °C to +45 °C
Relative humidity	100% non-condensing
Maximum operating altitude	3,300m
Maximum storage altitude	5,000m
Water and dust	Ip67
Shock (non-operating)	1.2 m drop on plywood over concrete 1m drop on display side
Vibration	FIG.514.5C-1

### Electrical

#### Hardware

Processor	Intel Atom Z3735F Quad-core @ 1.33GHz
RAM	2 GB
ROM	30 GB
External storage	USB up to 1 TB
OS Support	32 Bit OS, X86 based processor

### Battery

Type	Rechargeable Li-Ion
Capacity	8000 mAh (two modules of 4000mAh)
Charge time	4 hours (typical)
Battery run-time per battery module	6.0 hours w/o radios
Standby time	50 days
Power Input	5V, 2000Amp

### Camera

Back still mode	Autofocus 5 MP
Frontal still mode	Autofocus 2 MP
Still image format	JPG
Video mode	Up to HD resolution
Video file format	WMV, JPG4, etc, with audio

### Cellular & Wireless

GSM	900/1800/1900MHz
UMTS/HSDPA	850/900/2100/3600 MHz
GPRS, EDGE/WCDMA	850/900/1800/1900/2100 MHz
Wi-Fi	IEEE 802.11b/g/n , 1-54 Mbps , WPS WPA2 WPA WAPI
Bluetooth	Version 4 + EDR

### Display and input

Type	HD Transfective LED-backlit Retina LCD
Size	8 in diagonal
Resolution	1280 x 800 60Hz
Touchpanel	10 point Capacitive with Electronic Stylus
Physical buttons	1 Power and 2 volume Buttons
Audio	Internal microphone and speaker, audio plug

### I/O Ports

Standard USB 3.0 HOST	1 port
Micro USB 3.0 HOST	1 port
SIM card slot	1 port
Micro HDMI	1 port
3.5mm headphone	1 port

- Specifications are subject to change without previous notice. - This description may include typographical errors