

# GNSS Receiver

## Zenith25 Series



### Extremely Rugged

- IP68 Dust and Waterproof
- Withstands a 2 m Drop
- Vibration Resistant



### Future Proof

- Quad-Band GSM/GPRS
- UHF Radio and Bluetooth®
- True GNSS: GPS, Glonass, Galileo & SBAS



### Handheld Power

- Inbuilt Camera (5m Pixel)
- Compass
- Altimeter

# Zenith25 Series

Equipped with the most advanced GNSS receiver technology, Zenith25 is designed to deliver the ultimate performance. Even in extreme environments the reliable, robust GNSS system "works when you do".



Zenith25 receivers are built to last and are tough enough to withstand a 2 m drop onto a hard surface and total submersion in water.

Benefitting from world class technology that supports GPS, Glonass, Galileo and SBAS systems, combined with unmatched Q-Lock™ technology, the Zenith25 Series is truly future proofed and suitable for any application.

## Receiver specifications

Q-Lock™ technology	High fix availability + reliability
Channels	120, dual frequency
Max. No. of Satellites	60 satellites simultaneously
GPS tracking	L1, L2, L2C
GLONASS tracking	L1, L2
Galileo tracking	*
Positioning rate	20Hz, 5Hz
SBAS	EGNOS, WAAS, MSAS, GAGAN

## Receiver accuracy\*\*

Static horizontal	5 mm ± 0.5 ppm (rms)
Static vertical	10 mm ± 0.5 ppm (rms)
Static long horizontal	3 mm ± 0.1 ppm (rms)
Static long vertical	3.5 mm ± 0.4 ppm (rms)
Kinematic horizontal	10 mm ± 1 ppm (rms)
Kinematic vertical	20 mm ± 1 ppm (rms)

## Interfaces

Keyboard	On/Off and function keys
LED status indicators	Position, battery, Bluetooth®, RTK receive, RTK transmit, storage card
LED mode indicators	Rover, base, static
Data recording	Removable microSD card (8 GB)
GSM/TCP/IP	Removable SIM card

## Communication

GSM/GPRS module	800, 900, 1800, 1900 MHz internal antenna
UHF radio module	1000 mW transceiver, 406–480 MHz
Bluetooth®	Device class II
TNC connector	UHF antenna
Communication port	USB, serial & power

## Power supply

Internal battery	Removable 2.2 Ah / 7.4 V
Operating time	8 h in static / 5 h in rover mode
External power	10.5 V to 28 V

## Physical specifications

Dimensions	Height 95 mm, ø 198 mm
Weight	1.2 kg incl. battery & UHF radio
Operating temp.	-40°C to 65°C
Protection class	IP68 dust and waterproof
Humidity	100%, condensing
Vibration	Mechanical stress resistant according ISO 9022-36-05
Shock	Withstands 2 m drop onto hard surface

\* The optional Galileo tracking will be made available once there are sufficient satellites.

\*\* Measurement accuracy and reliability are dependent on various factors including satellite, geometry, obstructions, observation time, ionospheric conditions, multipath, etc. Figures quoted assume normal to favourable conditions.

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