Works when you do

The Zenith35 Pro is equipped with the latest NovAtel measurement engine, with 555 channels multi-constellation and frequency support, providing unmatched functionality. The unique Zenith35 Pro Tilt&Go functionality allows you to access the inaccessible, ensured by a precise electronic bubble. Its Wi-Fi connection offers the possibility to configure the Zenith35 Pro from any device. With IP68, the Zenith35 Pro Series is a compact and rugged tool that is water and dust proof.

Integrated 3.75G GSM cellular modem and UHF radio modules

Dual mode: up to 30° * tilt
Single mode: up to 15° tilt

Quality mode

RTK modes
Selectable; ExtralSafe, Standard

Tilt&Go modes
Selectable; Single/Dual

Communication

GSM/GPRS module
Quad-Band GSM & Penta-Band
UMTS 850 / 1900 / 2100 MHz

UHF radio module
500mW, 1000mW transceiver,
403 – 473 MHz

Bluetooth®
Device class 13

TNC connector
UHF antenna, UMTS/GSM antenna

Communication port
USB, serial & power

Physical specifications

Dimensions
Height 5 1/8in, ø 6 5/16in

Weight
2 1/2 lbs without battery

Operating temp.
-40 °F to 150 °F

Humidity
100%, condensing

Vibration
ASAE EP455 Section 5.15.1 Random,
MIL-STD-810G, method S14.6E-I

Shock
Withstands 2M pole drop onto hard surface

Power supply
Internal battery
Removable, Li-Ion 3.4Ah / 11.1V

Operating time
8h in static / 6h in rover mode

External power
9V to 18V, LEMO® plug

* Glonass L3 will be provided through future firmware upgrade. ** Believe to comply. Subject to ICD description availability. *** Support of QZSS is incorporated and will be provided through future firmware upgrade when QZSS will be operational. **** Measurement accuracy and reliability are dependent on various factors including satellite geometry, obstructions, observation time, atmospheric conditions, multipath, etc.

Figures quoted assume normal to favorable conditions. GeoMax reserves the right to change, without notice, product offerings or specifications.

Learn more at: geomax-positioning.us

Geomax Zenith35 Pro

GSM - UHF
Tilt&Go

Receiver specifications

Advanced® technology
High fix availability + reliability

Channels
555, multi-frequency

GPS tracking
L1, L2, L3, L5

GLONASS tracking
L1, L2, L3**

BeiDou tracking
E1, E5a, E5b, E5C, E6**

Positioning rate
5Hz, 20Hz (opt)

SBAS
EGNOS, WAAS, MSAS, GAGAN, QZSS***

Receiver Accuracy RMS****

Static horizontal
3 mm ± 0.5 ppm / .01 ft ± 0.5 ppm (rms)

Static vertical
5 mm ± 0.5 ppm / .016 ft ± 0.5 ppm (rms)

Kinematic horizontal
8 mm ± 0.5 ppm / .026 ft ± 1 ppm (rms)

Kinematic vertical
15 mm ± 1 ppm / .049 ft ± 1 ppm (rms)

Static long horizontal
3 mm ± 0.1 ppm / .01 ft ± 0.1 ppm (rms)

Static long vertical
3.5 mm ± 0.4 ppm / .011 ft ± 0.4 ppm (rms)

Interfaces

Keyboard
On/off and function key

LED status indicators
Position, battery, Bluetooth®, Wi-Fi, RTK receive, RTK transmit, data storage

LED mode indicators
Rover, base, static

Data recording
Dual; microSD card and 8GB internal memory

GSM/TCP/IP
Removable SIM card

Integrated Bluetooth® and Wi-Fi modules

8 GB internal memory

Quick removable SIM and microSD card

Port for external power and radio

GNSS Receiver
Erasing Boundaries

FULL FREEDOM

Tilt&Go

A corner of a building or even a gutter under a parked car? The unique Zenith35 Pro Tilt&Go functionality allows you to measure points where a plumb pole is not possible, such as house corners.

No longer worry about keeping your pole strictly plumb, just Tilt & Go! Seamlessly integrated into the field software, the Zenith35 Pro TAG offers two modes perfectly adapting to the measurement situation.

- **TAG Single** - when the highest efficiency is needed. Measure points with pole tilted up to 15° with only one press of a button. Perfectly suited for all your standard tasks, such as topographical surveys and stakeouts.
- **TAG Dual** - when working under difficult situations. Independent from discrepancies caused by metal objects (or those generating magnetic fields). With pole tilt up to 30°.

When you do have to be sure your pole is perfectly plumb, the Zenith35 Pro TAG alerts you when you are outside of the defined centering accuracy, documenting the quality of your measurement.

Raising Performance

FULL CONNECTIVITY

- Bluetooth® and WiFi connection
- Access from any device connected to the Internet, independent of your location
- USB port for data transfer
- Serial port for data output
- Powerful UHF radio for base-rover setups
- 3.75G GSM for network "NTRIP" connections
- Connect up to 10 rovers simultaneously via GSM with Zenith35 Pro DynDNS technology

FULL SKY

- 555 channels multi-constellation (including Galileo and BeiDou) and multi-frequency support, future proofing your purchase for today and tomorrow’s GNSS systems.
- NovAtel onboard - Cutting-edge technology from the leading provider of high precision OEM GNSS products.
- Zenith35 Pro ExtraSafe mode - Working under heavy canopy or when most reliable results are required, this feature adapts to different working conditions.

Works when you do

Full spectrum of satellite signals, full connectivity and the unique Tilt&Go functionality all in a compact GNSS make the Zenith35 Pro series the GNSS that works when you do.