GE❂MAX

Tilt&Go

GNSS Receiver

Zenith35 Pro Series

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.

PART OF **HEXAGON**

geomax-positioning.com

Visit our website to find your local distributor: geomax-positioning.us

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 Galleo 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.
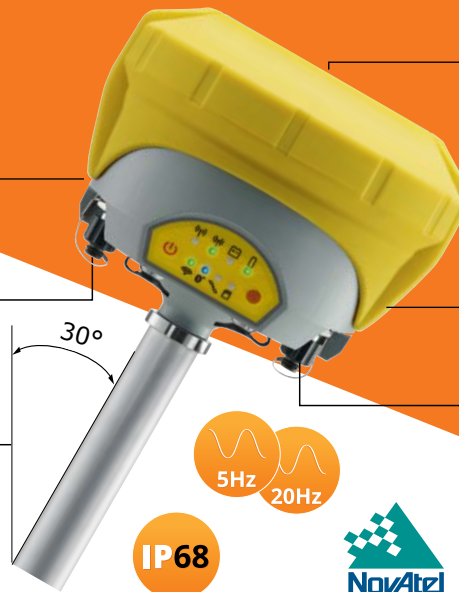
555 channels

555

Integrated 3.75G GSM cellular modem and UHF radio modules

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

Tilt&Go

30°

5Hz 20Hz

IP**68**

NovAtel ON BOARD

Intergrated Bluetooth® and Wi-Fi modules

8 GB internal memory

Quick removable SIM and microSD card

Port for external power and radio

	GSM - UHF	Tilt&Go
GeoMax Zenith35 Pro	✓	
GeoMax Zenith35 Pro TAG	✓	✓

Receiver specifications

AdVance® technology	High fix availability + reliability
Channels	555, multi-frequency
GPS tracking	L1, L2, L2C, L5
GLONASS tracking	L1, L2, L3*
BeiDou tracking	B1, B2, B3**
Galileo tracking	E1, E5a, E5b, AltBOC, E6**
Positioning rate	5Hz, 20Hz (opt)
SBAS	EGNOS, WAAS, MSAS, GAGAN, QZSS***

Receiver Accuracy****

RTK	Hz	8 mm ± 1 ppm / .026 ft + 1 ppm (rms)
	V	15 mm ± 1 ppm / .049 ft + 1 ppm (rms)
Network RTK	Hz	8 mm ± 0.5 ppm / .026 ft + 0.5 ppm (rms)
	V	15 mm ± 0.5 ppm / .049 ft + 0.5 ppm (rms)
Static	Hz	3 mm ± 0.5 ppm / .01 ft + 0.5 ppm (rms)
	V	5 mm ± 0.5 ppm / .016 ft + 0.5 ppm (rms)
Static long	Hz	3 mm ± 0.1 ppm / .01 ft + 0.1 ppm (rms)
	V	3.5 mm ± 0.4 ppm / 0.11 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

* 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, ionospheric conditions, multipath, etc.

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

Quality mode

RTK modes	Selectable; ExtraSafe, Standard
Tilt&Go modes	Selectable; Single/Dual

Communication

GSM/GPRS module	Quad-Band GSM & Penta-Band UMTS 800 / 850 / 900 / 1900 / 2100 MHz
UHF radio module	500mW, 1000mW transceiver, 403 – 473 MHz
Bluetooth®	Device class II
Wi-Fi	802.11 b/g/n
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
Protection class	IP68 dust and waterproof
Humidity	100%, condensing
Vibration	ASAE EP455 Section 5.15.1 Random, MIL-STD-810G, method 514.6E-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

CERTIFIED MANAGEMENT SYSTEM IQNet

Certified Management System SQS ISO 9001 / ISO 14001

GEOMAX

Learn more at:
geomax-positioning.us