GNSS Receiver

Zenith35 Pro Series

555 CHANNELS

- All satellite systems and frequencies supported
- NovAtel® technology
- Selectable RTK modes

EASY TILT & GO

- Reach and measure hidden points with tilted pole
- Check and track pole verticality
- Precise electronic bubble

COMPACT & RUGGED

- Compact size
- IP68 water and dust proof
- Shock protected

ZENITH35 PRO

PART OF HEXAGON

GEOMAX

works when you do

ERASING BOUNDARIES
RAISING PERFORMANCE

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*.

Tilt&Go

Full freedom

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

No longer worry about keeping your pole strictly vertical, 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 vertical, the Zenith35 Pro TAG alerts you when you are outside of the defined centering accuracy, documenting the quality of your measurement.

Full sky

- 555 channels multi constellation and multi frequency, ready for all todays and tomorrows GNSS systems, including Galileo and BeiDou.
- NovAtel onboard - Cutting-edge technology from leading provider of high precision GNSS.
- Zenith35 Pro ExtraSafe mode - Working under heavy canopy or when most reliable results are required, this feature adapts to different working conditions.
- 20 Hz position output as default.

Full connectivity

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

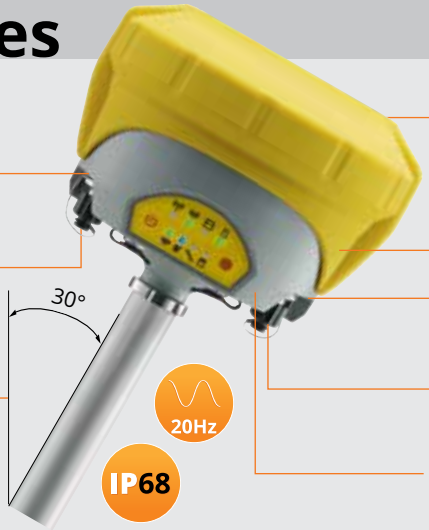
Zenith35 Pro Series

555 channels

Integrated 3.75 G GSM and UHF modules

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

Tilt&Go



ExtraSafe quality mode

NovAtel ON BOARD

4 GB internal memory

Quick removable SIM and microSD card

Port for external power and radio

Integrated Wi-Fi® module

	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** (optional)
Galileo tracking	E1, E5a,E5b, AltBOC, E6** (optional)
Positioning rate	20 Hz
SBAS	EGNOS, WAAS, MSAS, GAGAN, QZSS***

RECEIVER ACCURACY****

Static horizontal	3 mm ± 0.5 ppm (rms)
Static vertical	5 mm ± 0.5 ppm (rms)
Kinematic horizontal	8 mm ± 1 ppm (rms)
Kinematic vertical	15 mm ± 1 ppm (rms)
Static long horizontal	3 mm + 0.1 ppm (rms)
Static long vertical	3.5 mm + 0.4 ppm (rms)

QUALITY MODE

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

* 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 favourable conditions.

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 4 GB internal memory
GSM/TCP/IP	Removable SIM card

COMMUNICATION

GSM/GPRS module	Quad-Band GSM & Penta-Band UMTS 800 / 850 / 900 / 1900 / 2100 MHz
UHF radio module	500mW, 1000 mW transceiver, 403 – 473 MHz
Bluetooth®	Device class II
TNC connector	UHF antenna, UMTS/GSM antenna
Communication port	USB, serial & power

PHYSICAL SPECIFICATIONS

Dimensions	Height 131 mm, ø 161 mm
Weight	1.17 kg without battery
Operating temp.	– 40°C to 65°C
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 2 m drop onto hard surface

POWER SUPPLY

Internal battery	Removable, Li-Ion 3.4 Ah / 11.1 V
Operating time	8 h in static / 6 h in rover mode
External power	9 V to 18 V, LEMO® plug

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