The GR-5 with Vanguard Technology™

- 226-Channel Vanguard Technology™ with Universal Tracking Channels
- Fence Antenna™ technology for signal optimization
- Multiple communication options for job site versatility
- 32 GB SDHC storage support
- Dual hot-swappable batteries

Full sky, all-in-view satellite tracking
The GR-5 features the multi-constellation 226-channel Vanguard GNSS chip with Universal Tracking Channel Technology. This patented technology uses flexible and dynamic tracking methods to automatically select and track any available satellite signal enabling Topcon’s users to receive the maximum number of signals and measurements at any given time.

The GR-5 is not only capable of receiving signals from the fully operational GPS and GLONASS constellations, but also has the ability to support all planned signals from developing systems such as Galileo, Beidou (BDS) and QZSS. With current and developing satellite constellations, Universal Tracking Channel Technology optimizes GNSS signal tracking to guarantee maximum satellite geometry and availability.

Topcon’s patented Fence Antenna design brings superior signal reception and advanced multipath rejection in difficult environments. This technology provides a more robust and cleaner signal tracking which means unparalleled results.

With Vanguard Technology, Universal Tracking Channel and the Fence Antenna, the GR-5 is designed to deliver ultimate field performance even in challenging environments while maintaining unmatched accuracy, speed of initialization and fix reliability for RTK solutions.

In addition to advanced technologies, the mechanical design of the GR-5 makes it incredibly reliable, ergonomic, and durable. Guaranteed rugged, the GR-5 is the best GNSS receiver available in the market.

Premium GNSS technology in rugged form
Not only does the new Topcon Fence Antenna outperform other RTK receivers with enhanced sensitivity, but also provides multipath rejection characteristics that gives the GR-5 a level of tracking performance in difficult environments beyond any other GNSS receiver.
Advanced, durable, lightweight design

Bluetooth® Wireless Technology

Standard 5/8 x 11 in. threaded mount

Optional Quick-SNAP pole mounting system

Dual hot-swappable batteries

Rugged I-Beam construction

Super bright display with backlight LED lights

Fence Antenna™ Technology

Position updates selectable to 50 Hz

Easy access SD memory card and SIM card slot

Environmentally sealed external ports

Rechargeable Li-ion battery

Optional alkaline battery pack

Dual use center mount radio/communication antenna

Advanced, durable, lightweight design

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Super bright display with backlight LED lights

Fence Antenna™ Technology

Position updates selectable to 50 Hz

Easy access SD memory card and SIM card slot

Environmentally sealed external ports

Rechargeable Li-ion battery

Optional alkaline battery pack

Dual use center mount radio/communication antenna
Rugged design
The GR-5 is guaranteed rugged by design. The frame of the GR-5 and the robust internal components are guaranteed to resist a 2 m pole drop.

Communication options
Featuring various cellular and radio communication modules that are ready to perform in every GNSS application.

Unique design, measured results
Top mounted radio antenna design which is proven to extend radio range and expand each project site’s horizon, making you more productive all day.

Production time
Hot swappable battery option enables full day operation even in the most challenging of environments.