DATASHEET

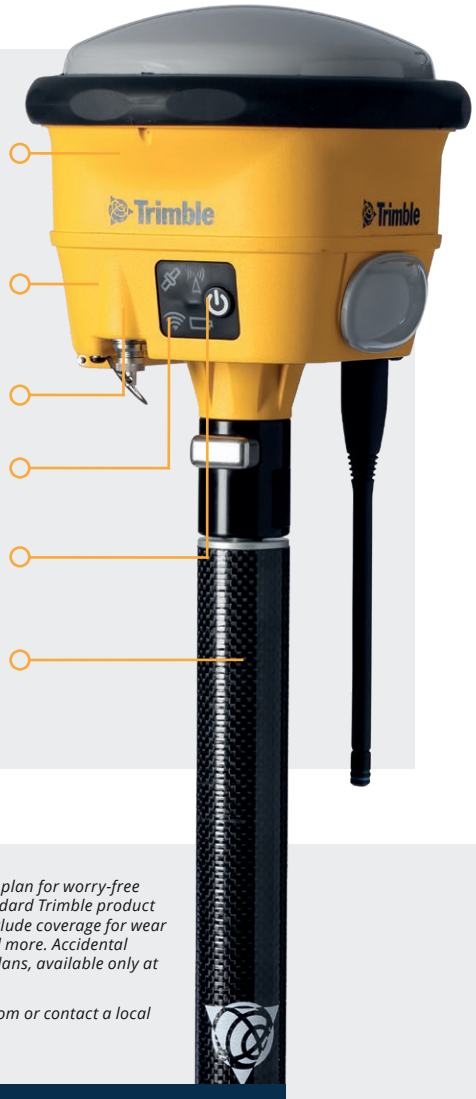
Trimble R780

GNSS System

Rugged, reliable positioning

The ultra-rugged Trimble® R780 GNSS System offers unmatched reliability for construction site positioning. Ideal for use on small and large job sites, the R780 can serve as a GNSS rover system or as a base station for other GNSS operations.

The R780 is scalable from entry-level to high precision applications to fit your needs. Its integrated dual-band radio gives contractors the flexibility to work on any site, switching between 450 and 900 MHz as needed without requiring any additional equipment—ideal for working in mixed fleet operations. With a battery life that won't stop until you do, the R780 incorporates the latest technology to make construction surveying easier, safer and more productive.



GNSS receiver, antenna, radio and battery in one unit—ultra-rugged housing built to withstand harsh construction site conditions.

Trimble CenterPoint® RTX delivers fast, high accuracy GNSS positions worldwide via satellite or cellular/IP without a local base station or VRS network.

VRS and IBSS compatible for a more economical solution.

Connected-site enabled with integrated Wi-Fi® Bluetooth® and dual-band (450/900 MHz) radio.

Rapid daily base station setup with a single button push using Trimble AutoBase™ technology.

Built for construction

- Compact design with unprecedented strength and durability, easy to use and virtually indestructible
- Tilt compensation functionality helps you measure fast and accurately without leveling the pole
- Dual-band radio (450 / 900 MHz) to connect to diverse base stations and job sites without the expense of additional external radios
- Real-Time Kinematic (RTK) corrections for higher-accuracy site measurements
- The dual Trimble Maxwell™ 7 GNSS ASIC chip enables greater performance in challenging GNSS environments (blocked sky, multi-path, or degraded signal) and provides more channels for future constellation changes so your investment remains valuable over time

Flexibility

The R780 is compact and can easily go from carrying case to range pole or tripod with a single click so you can get going faster.

Trimble ProPoint technology

Trimble ProPoint® GNSS technology uses all available signals to provide survey-grade positioning in challenging environments where other GNSS systems either can't provide a solution at all or produce unreliable error estimates.

Trimble xFill technology

Trimble xFill® technology seamlessly fills in for gaps in RTK or VRS connection streams if the connection is lost, expanding site productivity by allowing short excursions into locations where GNSS corrections were not previously available.

Add a Trimble Protected protection plan for worry-free ownership over and above the standard Trimble product warranty. Added enhancements include coverage for wear & tear, environmental damage, and more. Accidental damage is covered with Premium plans, available only at point-of-sale in selected regions.

For details, visit trimbleprotected.com or contact a local Trimble distributor.

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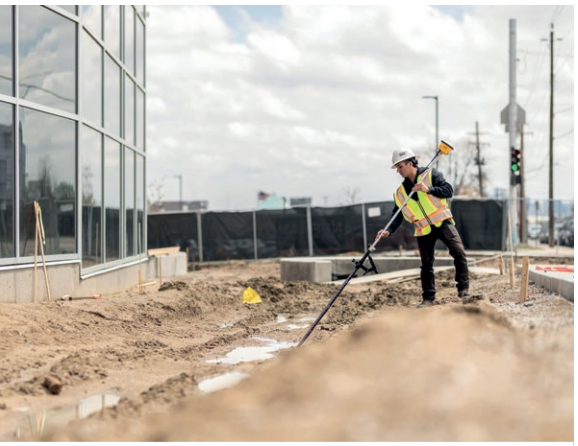

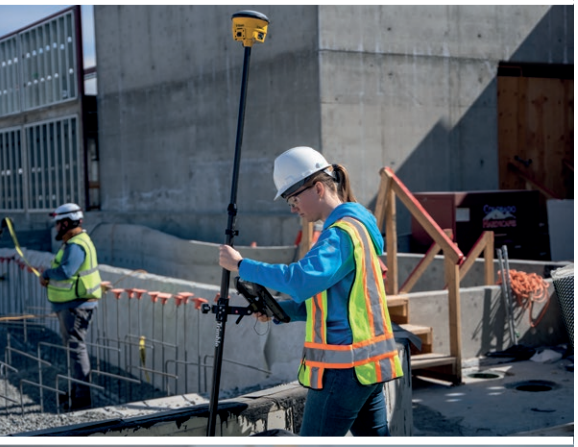

Tilt compensation

Using the R780 and Trimble FieldLink software it is now possible to capture accurate and reliable layout without ever needing to level the pole.

Full GNSS tilt compensation makes FieldLink easier to learn for beginners and saves significant time for more experienced contractors.

- Easily and safely survey hard to reach areas (trenches, active sites, building corners)
- Faster measurements
- More efficient stake-outs

Applications

With the R780 and FieldLink software, you can:

- Layout underground utilities such as electrical conduits and plumbing
- Locate and/or verify concrete and steel placement
- Determine cut/fill
- Check Elevations
- Record tilt data when taking measurements
- Stake or Record site features
- Measure progress and calculate material aggregate and concrete volumes
- Carry out as-built measurements, grade checks and thickness checks

Using your smartphone, quickly check the health and status of the receiver with the Trimble GNSS Status App. For a more in-depth look, the Trimble Web UI can be accessed over Wi-Fi. Setting a new standard for rugged reliability, the R780 keeps your crews working, not wasting time with GNSS maintenance.

Effortless precision

Trimble CenterPoint RTX real-time corrections with the R780 provides dependable centimeter-level accuracy via satellite or internet for confident layout.
The service allows you to:

- Accelerate construction layout by reducing setup complexity and time lost to multiple setups in a day
- Eliminate slowdowns caused by line-of-sight obstructions associated with traditional workflows
- Move freely on the construction site with GNSS for layout and avoid time-intensive base station setups
- Reduce planning complexity due to line-of-sight requirements.

Trimble CenterPoint RTX correction service is activated and ready to use for the initial 12 months at purchase. Learn more at **rtx.trimble.com**.

Bluetooth® CE Made for iPhone iPad

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