R20 Manual Total Station

The GeoMeasure R20 is the 2" Total Station perfect for those looking for a simple and reliable manual total station. Engineered to meet the demands of the field, the R20 combines cutting edge features with user friendly design. Whether for topographic surveys, construction layout, or as-built surveys, the R20 is the perfect solution.

FEATURES

Embedded Bluetooth

The R20 is built with integrated bluetooth, making it possible to use with an external data collector. Work with your favourite field PC without any compromise.

Software Compatibility

The R20 is compatible with MicroSurvey's FieldGenius, and Carlson's SurvCE and SurvPC. This is supplemented by the total station's on-board software that allows you to store and measure points.

Quick and Accurate

The dual-axis R20 provides a 2" accuracy and 350 m of range for reflectorless range. With a single prism, measure up to 3,000 m.

Easy and Comfortable to Use

To make it as easy to use as possible, the R20 comes with dual face displays. This makes working with the station super easy.

Advanced Optics

Based on Leica and GeoMax platforms, the 30x magnification makes seeing your targets easy, even at long ranges. Easily locate and shoot your targets.

Long-Lasting Batteries

The internal batteries are designed to provide all-day working battery life. With 10-16 hours of battery life, the R20 can work longer then you do.

R20 Total Station
2" Angular Accuracy

Angle Measurements

Accuracy:	2" (0.6 mgon)

Distance Measurements

Reflectorless Range:	350 m
Kodak White Reflectorless:	350 m
Reflective Sheet:	800 m
Single Prism:	3,000 m
Three Prism:	6,000 m

Telescope

Magnification:	30X
Field of View:	1° 20' (2.3 m at 100m)
Minimum Focusing Distance:	1.5 m
Reticle:	Illuminated

Compensator

System:	Dual-Axis
Accuracy:	1"

Communication

Interface:	Standard RS232, SD Card, Bluetooth, MicroUSB
Internal Data Memory:	Approximately 20,000 Points
Data Format:	ASCII

Operation

Keyboard:	2 Sided Alphanumeric Back Lit Keyboard
Display:	High Resolution Black and White Display with Backlight
Data Recording:	1GB Internal Memory, Removable SD and USB
Operating System:	Dedicated On-Board Software

Physical Specifications

Operating Temperature:	-20°C to +50°C
Storage Temperature:	-40°C to +70°C
Protection Class:	IP54 Dust and Waterproof Rating

Power Supply

Internal Battery:	Removable Li-Ion 3 Ah / 7.4 V
Operating Time:	10-16 h