**trimble m3 total station**

**one of your most reliable crew members**
Lightweight, compact and streamlined, the Trimble M3 Total Station provides everything you need to get the job done right in demanding situations.

**trimble access Field software on board**
Featuring Trimble Access field software, the Trimble M3 combines trusted mechanical total station reliability with the powerful, functional and modular software that modern users need today. Designed to support your everyday work, including topographic surveys, staking, control, and more; Trimble Access offers a familiar, easy-to-use interface that will ensure your instant productivity with powerful data collection and calculation tools for fast results in the field.

**streamlined workflows for specialized applications**
With Trimble Access onboard, users can now take advantage of optional specialized modules that help streamline common application workflows. The Trimble Access Roads module adds powerful tools to simplify road stakeout projects. The step-by-step approach guides users with minimal training, providing all the tools at your fingertips to complete a road stakeout job.

The Trimble Access Tunnels module provides an easy to follow workflow that guides users through tasks such as marking areas of under- and overbreak with the laser pointer of the Trimble M3. The graphical interface provides a clear view of as-designed versus as-built conditions.

The Trimble Access Land Seismic module is designed to simplify seismic stakeout work to increase speed and reduce errors. The easy-to-follow workflow uses common naming conventions for stakeout points and the unique bin-based navigation functionality ensures that operators get to the next stake location quickly.

Each M3 instrument comes standard with integrated wireless Bluetooth® connection. Through this connection, users can control the instrument using Trimble Access field software running on an external controller. This allows the M3 to be used seamlessly right along with other Trimble equipment on the job site.

**mechanical expertise from the innovation leader**
With long range Trimble DR technology, you can save time by reducing instrument setups to reach your desired measurement points. The high-accuracy EDM provides fast, reliable measurements to get your job done quickly and efficiently. Renowned Nikon optics provide proven clarity, quality and precision for improved aiming and operation.

Ergonomic controls plus an integrated screen and keyboard streamline and simplify your inputs. With its bright, colorful QVGA touchscreen running Microsoft® Windows® Embedded CE 6.0 operating system, the Trimble M3 display optimized the graphical-rich environment. Bright and colorful screen provides the ability and improved readability for menu navigation. Graphical staking of points, lines, arcs and the Active Map feature keyboard streamline and simplify your inputs.

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**designed to keep you moving**
Due to its small and lightweight design, the Trimble M3 is quick and easy to move around the job site. Each instrument comes with the choice of internal optical or laser plummet making for convenient known point setups. The system ships in a rugged and compact hard-shell transport case so it is easy to transport to and from the job site.

With two hot-swappable, long life batteries included, the Trimble M3 is capable of up to 26 hours of continuous operation. This offers users the ability to quickly replace a battery while continuously working when power is getting low, without shutting down.

**trimble m3 DR 5” W**
For users working in cold temperatures, the Trimble M3 DR 5” Winterized version is specially designed for use in low temperature conditions. When in use during extreme low temperatures, the rear display heater will switch on automatically at temperature around –15°C.
### DISTANCE MEASUREMENT

**Range with specified prisms**

- **Good conditions**:
  - With reflector sheet 5 cm x 5 cm (2 in x 2 in): 1.5 m to 270 m (4.9 ft to 886 ft)
  - With single prism 6.25 cm (2.5 in): 1.5 m to 3,000 m (4.9 ft to 9,843 ft)

- **5” Winterized**:
  - 1.5 m to 5,000 m (4.9 ft to 16,404 ft)

**Accuracy**

- **Standard Deviation based on ISO 17123-4**
  - ±(2.2 ppm x D) mm

- **Reflectorless**
  - ±(3.3 ppm x D) mm

- **Winterized version**
  - ±(2.2 ppm x D) mm

**Measuring intervals**

<table>
<thead>
<tr>
<th>Prism mode</th>
<th>Standard mode</th>
<th>Fast standard mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;, 2&quot;, 3&quot;, 5&quot;</td>
<td>1.6 s</td>
<td>0.8 s</td>
</tr>
<tr>
<td>5&quot; Winterized</td>
<td>1.5 s</td>
<td>0.8 s</td>
</tr>
</tbody>
</table>

### ANGLE MEASUREMENT

- **DIN 18723 accuracy (horizontal and vertical)**: ±1", ±2", ±3", ±5" (absolute encoder)
- **Reading system**: Absolute encoder
- **Minimum increment**: Degree: 1/5/10“
- **Horizontal/Vertical angle**: Diametrical
- **Sensitivity of Circular level vial**: 10’/2 mm

### TELESCOPE

- **Tube length**: 125 mm (4.9 in)
- **Magnification**: 30 x
- **Effective diameter of objective**: 40 mm (1.6 in)
- **Effective diameter of objective of 5" EDM**: 45 mm (1.8 in)
- **Field of view**: 1°20’
- **Resolving power**: 3”
- **Minimum focusing distance**: 1.5 m (4.9 ft)
- **Laser Pointer**: Green Laser (Coaxial Red Light)

### POWER

- **Internal Li-ion battery (x2)**
  - 3.8 V DC
- **Operating time**
  - 1", 2", 3", 5": approx. 26 hours (distance/angle measurement every 30 seconds)
  - 5" Winterized: approx. 16 hours (distance/angle measurement every 30 seconds)
- **Charging time, full charge**: approx. 4 hours

### GENERAL SPECIFICATIONS

- **Level vials**: Endless (1", 2", 3", 5"), Clamping (1")
- **Display face**: QVGA, 16 bit color, TFT LCD, backlit (320x240 pixel)
- **Point memory**: 128 MB RAM, 1 GB Flash Memory
- **Internal Plurimeter**: Optical or Class 2 Laser
- **Dimensions (W x D x H)**: 149 mm x 145 mm x 306 mm
- **Weight (approx.)**: 4.2 kg (9.3 lb)
- **Carrying case**: Battery: 0.1 kg (0.2 lb)

### ENVIRONMENTAL

- **Operating temperature range**: -20 °C to +50 °C (-4 °F to +122 °F)
- **Storage temperature range**: -25 °C to +60 °C (-13 °F to +140 °F)

### CERTIFICATION

- **Class B Part 15 FCC certification, CE Mark approval, C-Tick**
- **Laser safety IEC 60825-1:2007**

### NOTES

- **Specifications subject to change without notice.**
- **Bluetooth type approvals are country specific.**
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