Key Features

- Compact, lightweight & rugged
- Trusted and reliable mechanical technology
- Trimble Access field software and optional Roads module on board
- Bright and colorful touchscreen QVGA display

Tristime 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 Onboard

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.

Trimble Access on the Trimble M3 offers users the optional Trimble Access Roads module. The Trimble Access Roads module provides streamlined workflows allowing users to import road definitions from many third-party sources, or key in a complete road definition that includes horizontal and vertical alignments, templates and superelevation, and widening records. Users are guided through fast offsets, slope staking, real-time redesign, and real-time quality control.

Designed to keep you moving

Take advantage of a complete total station solution. 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.

With two hot-swappable, long life batteries, 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.

Backed by world-class training, service and support, Trimble’s knowledgeable worldwide distribution network will help keep you running at full speed.

Mechanical expertise from the innovation leader

The Trimble M3 is lightweight, compact and easy to take anywhere you need it. Ergonomic controls plus an integrated screen and keyboard streamline and simplify your inputs. Renowned Nikon optics provide proven clarity, quality and precision for improved aiming and operation.

With its bright, colorful QVGA touchscreen running Windows® Embedded CE 6.0 operating system, the Trimble M3 display optimizes the graphical-rich features of Trimble Access with improved readability and menu navigation. Graphical staking of points, lines, arcs and alignments is available with the Active Maps feature.

Trimble is dedicated to advancing surveying businesses. Trimble solutions are designed to help you achieve more by focusing on making day-to-day work more efficient, in the field, in the office, and wherever your work may take you.

Trimble M3 DR 5” W

The Trimble M3 DR 5” W 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

<table>
<thead>
<tr>
<th>Good conditions</th>
<th>Reflectorless</th>
<th>Wintereized version</th>
</tr>
</thead>
</table>
| 1", 2"           | ±(3 + 2 ppm × D) mm  | ±(3 + 3 ppm × D) mm
| 3", 5"           | ±(3 + 2 ppm × D) mm  | ±(3 + 3 ppm × D) mm

#### Prism Accuracy

- **Standard Deviation based on ISO 17123-4**
- **Prism: ±(2±2 ppm × D) mm**
- **Reflectorless: ±(3±2 ppm × D) mm**

#### Measuring interval

<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;</td>
<td>1.6 s</td>
<td>0.8 s</td>
</tr>
<tr>
<td>3&quot;, 5&quot;</td>
<td>1.5 s</td>
<td>0.8 s</td>
</tr>
</tbody>
</table>

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<tr>
<th>Reflectorless mode</th>
<th>Standard mode</th>
<th>Fast standard mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;, 2&quot;</td>
<td>2.1 s</td>
<td>1.2 s</td>
</tr>
<tr>
<td>3&quot;, 5&quot;</td>
<td>1.8 s</td>
<td>1.0 s</td>
</tr>
</tbody>
</table>

#### ANGLE MEASUREMENT

**DIN 18723 accuracy (horizontal and vertical)** 1", 2" ±0.5 mgon 3" ±1.0 mgon

- **Reading system**: Absolute encoder
- **Circle diameter**: 62 mm (2.4 in)
- **Horizontal/Vertical angle**: Diametrical
- **Minimum increment (Degree, Gon, MIL6400)**: Degree: 1/5/10 gon

#### Telescope

<table>
<thead>
<tr>
<th>Tube length</th>
<th>125 mm (4.9 in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification</td>
<td>30× (18x36x with optional eyepieces)</td>
</tr>
<tr>
<td>1&quot;, 2&quot; EDM diameter</td>
<td>40 mm (1.6 in)</td>
</tr>
<tr>
<td>3&quot;, 5&quot; EDM diameter</td>
<td>45 mm (1.8 in)</td>
</tr>
<tr>
<td>Field of view</td>
<td>1°/20'</td>
</tr>
<tr>
<td>Resolving power</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Minimum focusing distance</td>
<td>1.5 m (4.9 ft)</td>
</tr>
</tbody>
</table>

#### Laser Pointer

- **Coaxial Red Light**
- **Minimum focusing distance**: 1.5 m (4.9 ft)

### COMMUNICATIONS

- **Communication ports**: 1 x serial (RS-232C), 2 x USB (host and client)
- **Wireless communications**: Integrated Bluetooth

### POWER

- **Internal Li-ion battery (x2)**
  - **Output voltage**: 3.8 V DC
  - **Operating time**
    - 1", 2": approx. 12 hours (continuous distance/angle measurement)
    - 3", 5": approx. 7.5 hours (continuous distance/angle measurement)

#### Charging time, full charge

- **1", 2"**: approx. 12 hours
- **3", 5"**: approx. 20 hours

### GENERAL SPECIFICATIONS

- **Level vials**: Sensitivity of Circular level vial: 10/2 mm
- **Tangent/Clamps**: Endless (1", 2", 3", 5"), Clamping (1")
- **Display face**: QVGA, 16 bit color, TFT LCD, backlit (320x240 pixel)
- **Display face 2**: Backlit, graphic LCD (128x64 pixel)
- **Point memory**: 128 MB RAM, 128 MB flash memory
- **Dimensions (W x D x H)**: 149 mm x 145 mm x 306 mm (5.8 in x 5.7 in x 12.0 in)
- **Weight (approx.)**
  - 1", 2": 3.9 kg (8.6 lb)
  - 3", 5": 3.8 kg (8.4 lb)
  - Battery: 0.1 kg (0.2 lb)
  - Carrying case: 2.3 kg (5.1 lb)

### ENVIRONMENTAL

- **Operating temperature range**: –20 °C to +50 °C (–4 °F to +122 °F)
- **Wintereized**: –30 °C to +50 °C (–22 °F to +122 °F)
- **Storage temperature range**: –25 °C to +60 °C (–13 °F to +140 °F)
- **Atmospheric correction**: –30 °C to +60 °C (–22 °F to +140 °F)
- **Temperature range**: –40 °C to +60 °C (–40 °F to +140 °F)
- **Barometric pressure**: 400 mmHg to 999 mmHg/533 hPa to 1,332 hPa/15.8 inHg to 39.3 inHg
- **Dust and water protection**: IEC65

### CERTIFICATION

- **Class B Part 15 FCC certification**, CE Mark approval.
- **C-Tick**: Laser safety IEC 60825-1 am2:2007
- **Dual-axis Liquid-electric detection**
- **Compensation range**: ±3.5'

### Bluetooth type approvals are country specific.

### Specifications subject to change without notice.