Big power, small package
Easy-to-use, highly accurate, rugged, and reliable the iM-100 manual total station is perfect for entry-level site layout and surveying. The iM-100 is built to be your hardest worker, made to withstand even the toughest conditions and providing up to 28 hours of battery life*1.

Like all of our products, you can customize it to meet your needs and create your own workflows.

- Fast, accurate, and powerful EDM
- Reflectorless up to 800 meters
- Dual-axis compensation
- Waterproof IP66 rating
- Up to 28 hours in battery life*1

High-end performance
Featuring a new top line EDM, the iM-100 is fast, accurate, and powerful. It has 1.5 mm / 2 ppm accuracy and is able to measure up to 5,000 meters to standard prisms, and in reflectorless mode measures up to 800 meters at an incredible 2.0 mm + 2 ppm accuracy.

Precise positioning
Dual-axis compensation ensures stable measurements even on rough terrain. The compensator automatically corrects both horizontal and vertical angles and allows for more accurate instrument setups and measurements.
**Ready for the field**
In addition to an IP66 certification, the iM-100 is guaranteed to protect against dust and be waterproof up to one meter. It comes in a regular model which can operate in temperatures ranging from -20°C to 60°C, and a low-temperature model that can handle -35°C to 50°C*2.

**Stay charged**
The iM-100 lets you get more done on the job without the need to recharge during the workday. Typical battery life is tested to 28 hours in Eco mode and 21 hours in regular mode.

**Get connected**
With Bluetooth® wireless communication you can deliver data instantly to your Bluetooth-equipped controller, with no external antenna needed.

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*1 Eco Mode. *2 Region Dependent.
**Specifications**

**Model**
- **iM-101**
- **iM-102**
- **iM-103**
- **iM-105**

**Telescope**
- **Magnification / Resolving power**: 30x / 2.5" (IM-100)
- **Objective aperture**: 45 mm (1.8 in.)
- **Field of view**: 1.5° / 250 m (1,000 m)
- **Minimum focus**: 0.3 m (11.8 in.)
- **Reticle illumination**: Selectable

**Angular measurement**
- **Angular measurement range**: 0.5" / 1°
- **Accuracy (ISO 17123-2:2001)**: 1" / 2" / 3" / 5"

**Angle Measurement**
- **IACS (Independent Angle Calibration System)**: Provided
- **Dual-axis compensator / Collimation compensation**: Dual-axis liquid tilt sensor, ±6' (±111 mgon)

**Distance Measurement**
- **Laser output**: Class 3R / Class 1
- **Measuring range**:
  - **Reflective mode**: Class 3R / Prism / Sheet mode: Class 1
  - **Reflective sheet**: 0.3 to 800 m (1.0 to 2,625 ft.)
  - **Mini prisms**: 0.3 to 500 m (1.6 to 1,640 ft.)
  - **One AP prism**: 0.3 to 1,000 m (3,280 ft.)
- **Distance measurement range**:
  - **Reflective sheet**: 0.3 to 200 m (1.0 to 656 ft.)
  - **Tracking**: 0.9 s (Initial 1.5 s), Rapid: 0.6 s (Initial 1.3 s)

**Interface and Data Management**
- **Display / keyboard**: Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / Alphanumeric keyboard / 28 keys with backlight
- **Control panel location**: On both faces (second display is optional)
- **Trigger key**: On right instrument support
- **Data storage**: Approx. 10,000 points
- **Internal memory**: Up to 32GB USB flash memory
- **Interface**: Serial RS-232C, USB 2.0
- **Bluetooth®**: Optional

**General**
- **Laser pointer**: Coaxial red laser using EDM beam
- **Guide light**: Green LED (524 nm) and Red LED (626 nm), Beam accuracy: ±0.1 mm at 1 m, Class 2 laser product
- **Dust/Water Rating**: IP66 (IEC 60529:2001)
- **Operating temperature**: -20 to 60°C

**Superior storage**
Don't worry about how or where to store all your data, the iM-100 has you covered. With 50,000 pts internal memory and up to 32GB USB flash drive support, you can easily store all data in the field that you need.

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*Specifications subject to change without notice ©2017 Topcon Corporation All rights reserved.
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