DS-200i Series

Imaging Robotic Total Station

- Real-Time Video Imaging with 5MP Camera
- Auto-Tracking Technology
- Hybrid Positioning™ Ready
- Exclusive LongLink™ Communications
- RC-5 Quick Lock
- Rugged Waterproof Design
Use the DS-200i when imaging is required to document field activity or use photo documentation to settle disputes.

The DS-200i is a mid-ranged professional motorized total station designed for the construction professional who is looking for productivity enhancement from servo motors and auto-tracking technology. The MAGNET® on-board software intuitive interface assists with image capture and photo notes of field activity. For even higher productivity levels, use a field controller with MAGNET Field software for robotic, one-operator control.

Work directly on the bright, color touch screen or with the alpha-numeric keyboard, to achieve higher levels of production with MAGNET Field on-board software. The DS-200i total station can be used on a wide variety of applications, from building layout to earthwork volumes and land surveying.

A World’s First – TSshield™
Topcon is proud to offer another world’s first technology in all DS Series total stations – TSshield™. Every instrument is equipped with a telematics-based multi-function communications module providing the ultimate security and maintenance capabilities for your investment.

If the activated instrument is lost or stolen, send a coded signal to the instrument and disable it. This feature secures the total station anywhere in the world.

Daily connectivity to cloud-based Topcon servers inform of available software updates and firmware enhancements.

Photo Documentation with Live Video
The 5 MP camera in the DS-200i provides an operator the ability to photo document and as-built. Office staff can easily identify objects in the field with description codes and attributes.

Live video provides the user verification that the total station is on the prism for quick reacquisition. With reflectorless measuring, take remote measurements through fences or distant objects, without losing time having to return to the tripod.
When connected with an external data collector, LongLink™ communication provides the power at the remote rod position. The remote operator records the data for codes and rod heights for as-builts, eliminating most common errors. For stakeout, the remote operator can view directions required to find the stake point. The system becomes an economical robotic system where the instrument man simply needs to follow and aim at the remote prism. The DS with the XPointing feature finds the center of the prism automatically. LongLink communication is built into the RC-5 and has the ability to send a signal to the total station to quickly re-acquire the prism.
**SPECIFICATIONS**

**Telescope**
- Resolving power: 2.5"
- Magnification: 30x

**Angle Measurement (Min. Resolution/Accuracy)**
- DS-201i: 1"
- DS-203i: 3"
- DS-205i: 5"

**Tilt Angle Compensation**
- Compensation: Dual-axis compensator
- Range: ±6'

**Distance Measurement**
- Prism EDM Range: 6,000 m (19,685 ft.)
- Prism EDM Accuracy: 1.5mm+2ppm
- Non-Prism Range: 1,000 m (3,280 ft.)
- Non-Prism Accuracy: 2mm+2ppm (0.3 to 200m)
- Measuring Time: Fine: 0.9 sec, Rapid: 0.6 sec, Tracking: 0.4 sec

**Auto-Tracking**
- 360° Prism Range: 2 to 600 m (6.6 to 1,960 ft.)
- Single Prism Range: 1.3 to 1,000 m (4.3 to 3,280 ft.)

**Camera and Communications**
- 5 MP Live video or photos
- LongLink™ rover communications* (Note: Range may vary due to conditions)
- USB 2.0 Slot (Host + Slave)
- RS-232C Serial

**General**
- Display: Color Touch TFT 240 x 320 (QVGA Display (Dual Display))
- Keyboard: 25 keys with illuminator (Single Keyboard)
- Battery Operation: Up to 5 hours
- Dust/Water Protection: IP65
- Operating Temperature: -4°F to 122°F (-20°C to 50°C)

**Upgrade Options**
- Hybrid Positioning
- RC-5 LongLink/Quick lock

For more specification information:

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**SOFTWARE**

**MAGNET**

A family of software solutions that streamlines the workflow for surveyors, contractors, engineers and mapping professionals.

**Field**

**Modern User Interface**
MAGNET Field provides a bright, graphical user interface with large touch icons, and bright readable text. The screens not only look good, but provide fast workflows.

**Easy-to-Use**
The icon and text field interface has been optimized to provide both text and images to indicate what data is needed on each screen.

**Advanced Calculations**
MAGNET Field on-board not only controls the measurements of the DS, but also provides many COGO and adjustment calculations right on the instrument.

**Office Tools**

**MAGNET Office Tools**
Review stored images of each point to better document field conditions. Great for dispute resolution.

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