Imaging Robotic Total Station

- Real-time video imaging with 5 megapixel camera
- Auto-tracking technology
- Hybrid Positioning™ ready
- Exclusive LongLink™ communications
- RC-5 quick lock
- Rugged, waterproof design

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.

LongLink™
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.

Photo documentation with live video
The 5 megapixel 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.
Easy access USB Type A/B flash drive port

Rugged waterproof/dustproof IP65 design

Ultra-wide 5 megapixel camera

Fast and powerful EDM 1,000 m non-prism range

Backlit 25 key keyboard and directional arrow key

Exclusive "STAR-KEY" functionality

Advanced angle accuracy

World’s first TSshield™ system

Rugged waterproof/dustproof IP65 design
Ultra-wide 5 megapixel camera
The on-board camera provides photo documentation in the field and can transmit live video using high-speed WLAN as an access point (AP), allowing an FC-5000 or Windows 10 tablets to easily connect.

Hybrid Positioning™ technology
Use both GNSS positioning and optical positioning data simultaneously to improve field measurement efficiency. Hybrid Search provides a quick lock for the prism.

Ultra-powerful advanced EDM
The 1,000 m reflectorless measurement can be achieved with a smaller beam spot size. Measurements can be as fast as 0.9 seconds.

Rugged waterproof design
The IP65 rating provides protection from dust and driving rain as well as other inclement weather conditions. Operates in temperatures from -20°C to 50°C.