



DS-200i SERIES

IMAGING ROBOTIC
TOTAL STATION





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.



Ultra-wide 5 megapixel camera

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

Easy access USB Type A/B flash drive port

Rugged waterproof/dustproof IP65 design



World's first TSshield™ system

Advanced angle accuracy

Exclusive "STAR-KEY" functionality

Backlit 25 key keyboard and directional arrow key



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
Prism EDM Accuracy	1.5 mm + 2 ppm
Non-Prism Range	1,000 m
Non-Prism Accuracy	2 mm + 2 ppm (0.3 - 200 m)
Measuring Time	Fine: 0.9 sec Rapid: 0.6 sec Tracking: 0.4 sec
Auto-Tracking Range	
360° Prism	2 to 600 m
Single Prism	1.3 to 1,000 m
Camera and Communications	
	5 megapixel for live video or photos
	LongLink™ rover communications*
	USB 2.0 Slot (Host + Slave)
	RS-232C Serial
General	
Display	Color Touch TFT 240 x 320 Display (Dual Display)
Keyboard	25 keys with illuminator (Single Keyboard)
Battery Operation	Up to 5 hours
Dust/Water Rating	IP65
Wireless	Bluetooth® Class 1
Operating Temp	-20°C to 50°C
Upgrade Options	
	Hybrid Positioning
	RC-5 LongLink™ with Quick lock

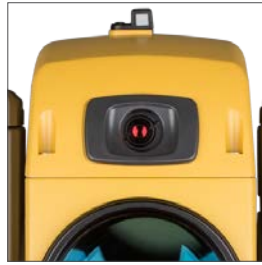
* The communication range may vary due to the condition of the area



For more information:
topconpositioning.com/ds-series

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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.



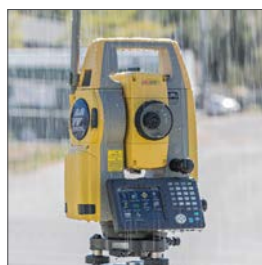
Hybrid Positioning™ technology

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.

