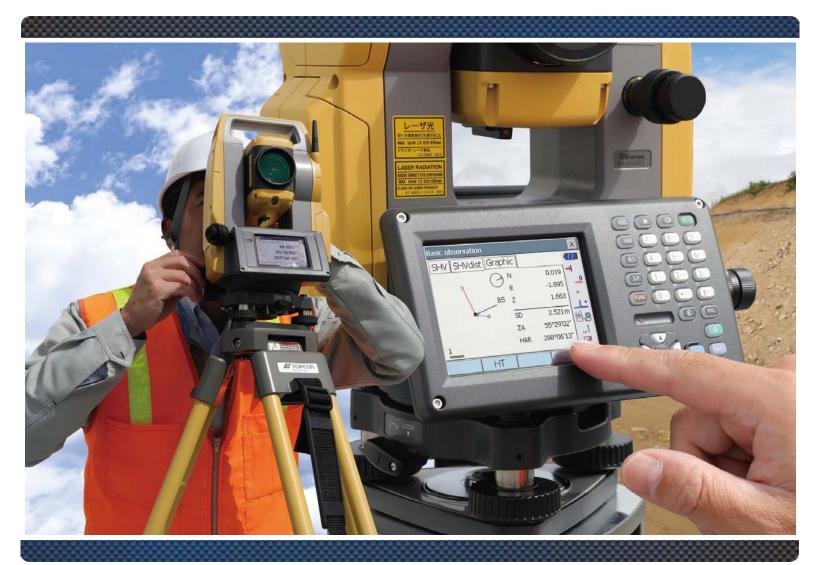


OS-200 series

Onboard Station





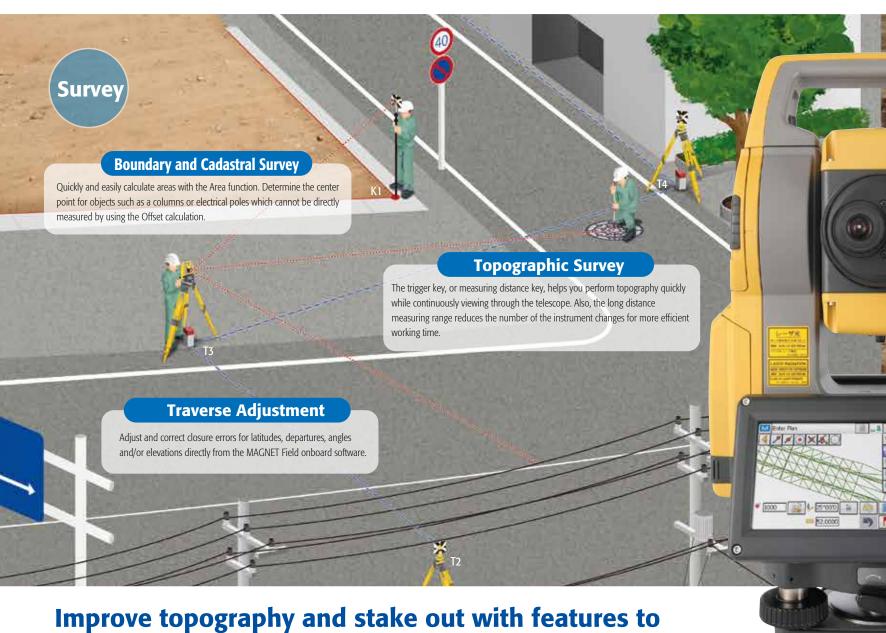




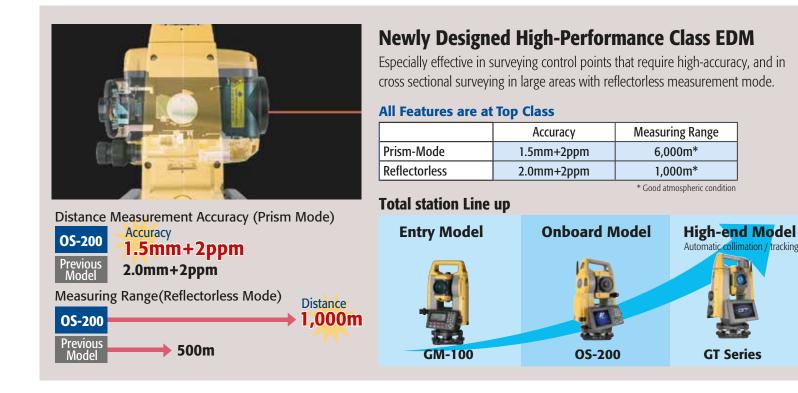
For professionals like you

- High performance EDM for rapid, repeatable measurements
- Modern, intuitive onboard MAGNET[®] Field software
- Convenient EDM trigger key
- Reflectorless laser measurement

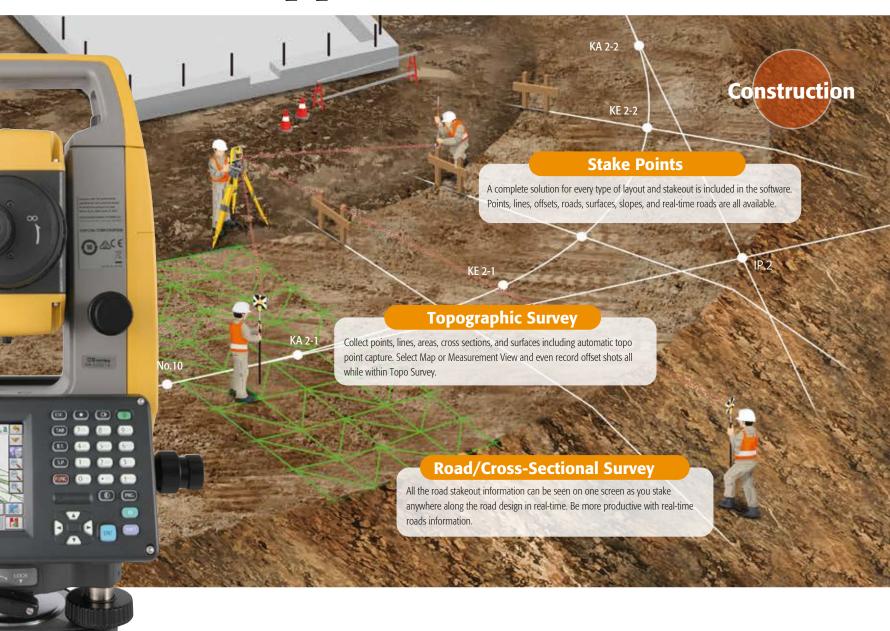
Professional results from basic to



achieve faster and more efficient workflows



advanced applications







Guide Light System

Anybody can move to Stake Out Line easily. Green and Red colored lights will show you the direction to move.



Discover MAGNET Field features and benefits.

- Intuitive user interface
- Advanced roading tool set
- Vast library of Import / Export file formats
- Calculate, contour, and compare surfaces
- Surface staking with automatic Digital Terrain Model creation
- Colorized cut and fill indicators, as well as volume calculations
- Direct connectivity to your private Company Account for easy data exchange and quick chat
- Microsoft Bing Maps[®] for real-time images behind your points, lines, and imported design files



Target Key & Screw System

By using tangent screws for sighting, you can measure a distance with a single-button click. Work efficiently and increases productivity for sighting task such as Stake Out, Topography, and Elevation Stakes.





Standard Package Components

- OS main unit
- Battery (BDC72)
- Battery charger (CDC77)
- Power Cable
- Lens cap
- Lens hood
- Tool pouch
- Precision screwdriver
- Lens brush
- Adjusting pin×2
- Silicon cloth
- Quick manual
- USB flash drive(Manual)
- Laser caution sign-board
- Carrying case
- Carrying strap

SPECIFICATIONS

		OS-201	OS-202
Telescope			
Magnification / Resolving power		30x / 2.5"	
Others		Length: 171mm (6.7in.), Objective aperture: 45mm (1.8in.) (48mm	
		(1.9in.) for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m),	
		Minimum focus: 1.3m (4.3ft.), Reticle illumination: 5 brightness levels	
Angle measurement			<u>~</u>
Display resolution		0.5" / 1" (0.0001 / 0.0002gon, 0.002 / 0.005mil)	
Accuracy (ISO 17123-3:2001)		1"	2"
Dual-axis compensator / Collimation compensation		Dual-axis liquid tilt sensor, working range: ±6' (±111mgon) /	
		Collimation compensation available	
Distance measurement			
Laser output*1		Reflectorless mode: Class 3R / Prism/sheet mode: Class 1	
Measuring range	Reflectorless*3	0.3 to 800m (2,620ft.) / Under good conditions*6 : 1,000m (3,280ft.)	
(under average conditions*2)	Reflective sheet*4*5	RS90N-K: 1.3 ~ 500m, RS50N-K: 1.3 ~ 300m, RS10N-K: 1.3 ~ 100m	
	Mini prism	1.3 to 500m (1,640ft.)	
	One prism	1.3 to 5,000m (4.3 to 16,400ft.) / Under good conditions *6: 1.3 to 6,000m (19,680ft.)	
Display resolution	Fine/Rapid measurement	0.0001m(0.001ft. / 1/16in.) / 0.001m (0.005ft. / 1/8in.) (selectable)	
	Tracking/Road measurement	0.001m (0.005ft. / 1/8in.) / 0.01m (0.1ft. / 1/2in.) (selectable)	
Accuracy*2	Reflectorless*3	(2 + 2ppm x D) mm*7	
(ISO 17123-4:2001)	Reflective sheet*4	(2 + 2ppm x D) mm	
(D=measuring distance in mm)) Prism	(1.5 + 2ppm x D) mm	
Measuring time *8		Fine: 0.9s (initial 1.5s), Rapid: 0.6s (initial 1.3s), Tracking: 0.4s (initial 1.3s)	
OS, Interface and Data manage	ement		-
Operating system		Windows Embedded Compact7	
Display / Keyboard		3.5inch, Transmissive TFT QVGA color LCD with LED backlight,	
		Touch screen, Automatic brightness control / 29 keys with backlight	
Control panel location *9		On both faces (Face 2 is only touch screen display)	
Trigger key		On right instrument support	
Data storage	Internal memory	1GB internal memory (includes memory for program files)	
	Plug-in memory device	USB flash memory	
Interface		Serial RS-232C, USB2.0 (Type A / mini B)	
Bluetooth modem (Factory Option) *9		Bluetooth Class 1, Operating range: up to 10m *10	
General			
Guide light *11		Green LED (524nm) and Red LED (626nm),	
		Operating range: 1.3 to 150m (4.3 to 490ft.)*2	
Laser-pointer *11		Coaxial red laser using EDM beam	
Calendar / clock function		Yes	
Levels Graphic		6'(inner circle)	
<u>Circular level</u>		10' / 2mm	
Optical plummet		Magnification: 3x, Minimum focus: 0.3m (11.8in.) from tribrach bottom	
Laser plummet (option)		Red laser diode (635nm±10nm), Beam accuracy: <=1.0mm@1.3m, Class 2 laser product	
Tribrach		Detachable (FS assessed asses)	
Dust and water protection		IP65 (IEC 60529:2001)	
Operating temperature*11		-20 to 60°C (-4 to 140°F)	
Size (with handle)		191(W)x190(D)x348(H)mm	
Instrument height		192.5mm from tribrach mounting surface	
		236mm +5/-3mm from tibrach bottom	
Weight with battery & tribrach		Approx. 5.7kg (12.3 lb.)	
Power supply			
Battery	BDC72	Li-ion rechargeable battery	
Operating time (20)	BDC72	Approx. 20hours (single distance measurement every 30 seconds)	

- *1 IEC60825-1:Ed.2.0:2007 / FDA CDRH 21 CFR Part 1040.10 and 11
- *2 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation.
- *3 Fine mode. With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 lx. or less. Reflectorless range/accuracy may vary according to measuring objects, observation situations and environmental conditions.
- *4 When the measuring beam's incidence angle is within 30° in relation to the reflective sheet target.
- *5 Measuring range in temperatures of -30 to -20°C (-22 to -4°F) with Low Temperature models and 50 to 60°C (122 to 140°F) with High Temperature models: RS90N-K: 1.3 to 300m (4.3 to 980ft.), RS50N-K: 1.3 to 180m (4.3 to 590ft.), RS10N-K: 1.3 to 60m (4.3 to 190ft.)

- Bluetooth®word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Topcon is under license.

- *6 Good conditions: No haze, visibility about 40km (25 miles), overcast, no scintillation.
- *7 Measuring range:0.3 to 200m
- *8 Typical, under good conditions. Reflectorless measurement time may vary according to measuring objects, observation situations and environmental conditions.
- *9 Usage approval of Bluetooth wireless technology varies according to country. Please consult your local oce or representative in advance.
- *10 No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain

- Specifications may vary by region and are subject to change without notice.

- Other trademarks and trade names are those of their respective owners.

- *11 The laser-pointer and the guide light do not work simultaneously.
- *12 Low Temperature models:-30 to 50 °C (-22 to 122°F) is available on built-to-order basis.



Topcon Positioning Middle East and Africa FZE

P.O.Box 371028, LIU J-11, Dubai Airport Free Zone, Dubai, UAE Phone: (+971)4-299-0203 Fax: (+971)4-299-0403 ${\it Email: marketing@topconpositioning mea.com}$ Website: www.topconpositioningmea.com

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