

# **OS-200** series

Onboard Station





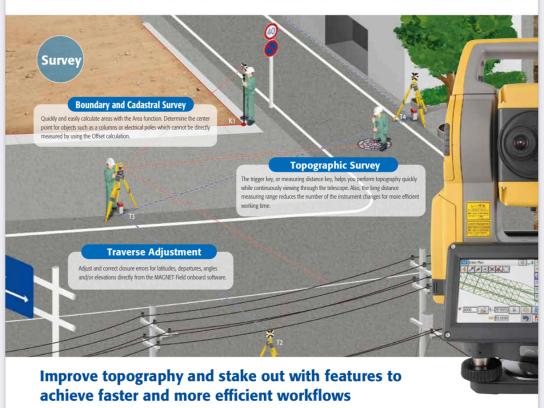


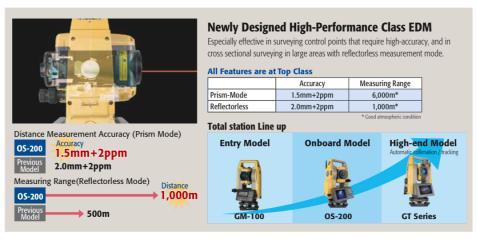


### For professionals like you

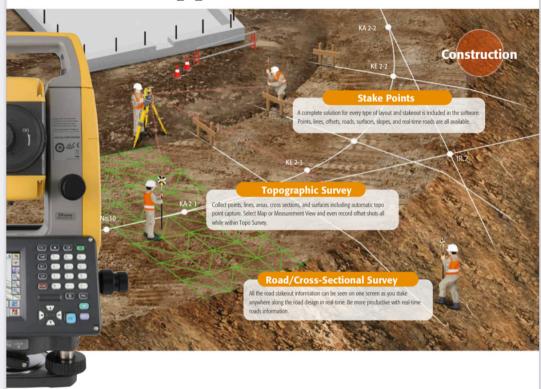
- High performance EDM for rapid, repeatable measurements
- Modern, intuitive onboard MAGNET® Field software
- Convenient EDM trigger key
- Reflectorless laser measurement

## **Professional results from basic to**





## advanced applications





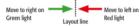
### Discover MAGNET Field features and benefits.

- 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



#### **Guide Light System**

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





#### Target Key & Screw System

By using tangent screws for sighting, you can measure a distance with a singlebutton 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		05 20.	00 202
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		William Iocas. 1.511 (4.51c), Retic	de marimadon. O originaress reveis
Display resolution		0.5" / 1" (0.0001 / 0.000	12gon 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		Commandi comp	ETISGLIOTI GVGIIGDIC
Laser output*		Reflectorless mode: Class 3R	/ Prism/sheet mode: Class 1
Measuring range	Reflectorless*3	0.3 to 800m (2,620ft.) / Under good conditions" : 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 (0.16t. / 1/2in.) (selectable)	
Accuracy*2	Reflectorless*3	(2 + 2ppm x D) mm <sup>-7</sup>	
(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 "	11011	Fine: 0.9s (initial 1.5s), Rapid: 0.6s (initial 1.3s), Tracking: 0.4s (initial 1.3s)	
DS, Interface and Data manager	nent	Title. 0.33 (tittidi 1.33), Kapid. 0.03 (ti	illidi 1.33), Hacking, 0.43 (illidi 1.33)
Operating system	nen	Windows Ember	Ided Compact?
Display / Keyboard		3.5inch, Transmissive TFT QVG/	
Display / Reyboard			
Control panel location *9		Touch screen, Automatic brightness control / 29 keys with backlight On both faces (Face 2 is only touch screen display )	
Trigger key		On right instrument support	
Data storage	Internal memory		
Data storage	Plug-in memory device	1GB internal memory (includes memory for program files)  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	uii)	bidetouti class i, Opera	ung range, up to rom
Guide light *11		Green LED (524nm) a	nd Pad LED (636nm)
Juliue light		Operating range: 1.3 to	
Laser-pointer *II			
Calendar / clock function		Coaxial red laser using EDM beam Yes	
evels	Graphic		
Levels	Circular level	6'(inner circle) 10' / 2mm	
Optical plummet	Circular rever	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	
Dust and water protection		IP65 (IEC 60529:2001)	
Operating temperature"		-20 to 60°C (-4 to 140°F)	
Size (with handle)		-20 to 60°C (-4 to 140°F) 191(W)x190(D)x348(H)mm	
Instrument height		191(W)X190(D)X348(N)HIIII  192.5mm from tribrach mounting surface	
Woight with hatton: 8 tribrach		236mm +5/-3mm from tibrach bottom Approx. 5.7kg (12.3 lb.)	
Weight with battery & tribrach		Approx. 5.71	(8 (12.5 ID.)
Power supply	PDC73	11100 00400	ashla hattani
Battery (2000)	BDC72	Li-ion recharg	
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 k. 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 990ft.), RS50N-K: 1.3 to 180m (4.3 to 99
- \*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.
- \*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.



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