



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		
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 <sup>*1</sup>	Reflectorless mode: Class 3R / Prism/sheet mode: Class 1	
Measuring range (under average conditions <sup>*2</sup> )	Reflectorless <sup>*3</sup>	0.3 to 800m (2,620ft.) / Under good conditions <sup>*5</sup> : 1,000m (3,280ft.)
	Reflective sheet <sup>*4, *5</sup>	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 <sup>*6</sup> : 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 <sup>*2</sup> (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless <sup>*3</sup>	(2 + 2ppm x D) mm <sup>*7</sup>
	Reflective sheet <sup>*4</sup>	(2 + 2ppm x D) mm
	Prism	(1.5 + 2ppm x D) mm
Measuring time <sup>*8</sup>	Fine: 0.9s (initial 1.5s), Rapid: 0.6s (initial 1.3s), Tracking: 0.4s (initial 1.3s)	
OS, Interface and Data management		
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 <sup>*9</sup>	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) <sup>*9</sup>	Bluetooth Class 1, Operating range: up to 10m <sup>*10</sup>	
General		
Guide light <sup>*11</sup>	Green LED (524nm) and Red LED (626nm), Operating range: 1.3 to 150m (4.3 to 490ft.) <sup>*12</sup>	
Laser-pointer <sup>*11</sup>	Coaxial red laser using EDM beam	
Calendar / clock function	Yes	
Levels	Graphic	6"(inner circle)
	Circular level	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	
Dust and water protection	IP65 (IEC 60529:2001)	
Operating temperature <sup>*11</sup>	-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 tribrach bottom	
Weight with battery & tribrach	Approx. 5.7kg (12.3 lb.)	
Power supply		
Battery	BDC72	Li-ion rechargeable battery
Operating time (20°C)	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.)  
\*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 oco 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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# OS-200series

Onboard Station



## For professionals like you

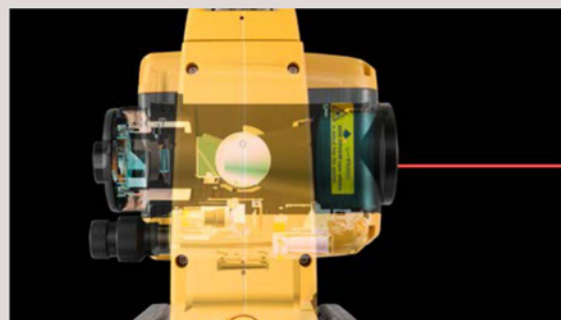
- High performance EDM for rapid, repeatable measurements
- Modern, intuitive onboard MAGNET® Field software
- Convenient EDM trigger key
- Reflectorless laser measurement



# Professional results from basic to advanced applications



## Improve topography and stake out with features to achieve faster and more efficient workflows



### Distance Measurement Accuracy (Prism Mode)

OS-200	Accuracy <b>1.5mm+2ppm</b>
Previous Model	<b>2.0mm+2ppm</b>

Measuring Range(Reflectorless Mode)

OS-200 → Distance 1,000m

Previous Model → 500m

## Newly Designed High-Performance Class EDM

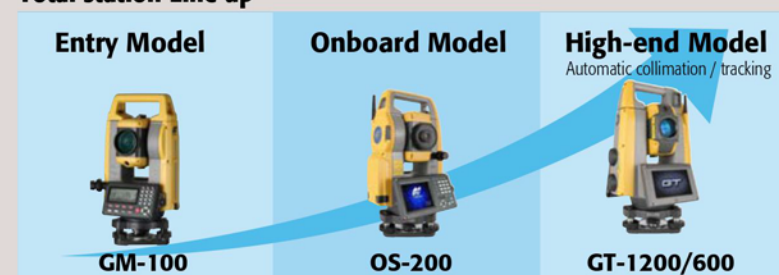
Especially effective in surveying control points that require high-accuracy, and in cross sectional surveying in large areas with reflectorless measurement mode.

## All Features are at Top Class

	Accuracy	Measuring Range
Prism-Mode	1.5mm+2ppm	6,000m*
Reflectorless	2.0mm+2ppm	1,000m*

\* Good atmospheric condition

### Total station Line up



**Discover MAGNET Field features and benefits.**

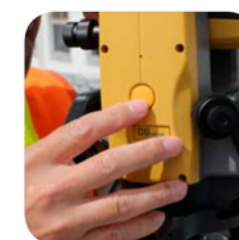
- Intuitive user interface
- Advanced roading tool set
- Vast library of Import / Export file formats
- Calculate, contour, and compare surfaces
- Surface staking with automatic Digital Terrain Model creation
- Colorized cut and fill indicators, as well as volume calculations
- Direct connectivity to 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.

Move to right on Green light    Move to left on Red light



### 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.