FX-200 series

Functional X-ellence Station

SPECIFICATIONS

Standard Package Components

- FX 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

		FX-201	FX-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 *1		Reflectorless mode: Class 3R / Prism/sheet mode: Class 1	
Measuring range (under average conditions *2)	Reflectorless *3	0.3 to 800m (2,620ft.) / Under good conditions *6 : 1,000m (3,280ft.)	
	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 (ISO 17123-4:2001) (D=measuring distance in mm)	Reflectorless *5	(2 + 2ppm x D) mm *7	
	Reflective sheet *4	(2 + 2ppm x D) 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 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 *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.) *12	
Laser-pointer *11		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 *11		-20 to 60℃ (-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.)
*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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FX-200 series

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- **Reflectorless laser measurement**

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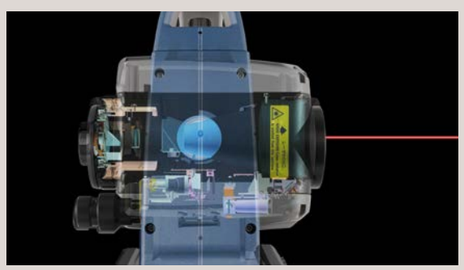

Distance Measurement Accuracy (Prism Mode)

FX-200 Accuracy **1.5mm+2ppm**

Previous Model **2.0mm+2ppm**

Measuring Range(Reflectorless Mode)

FX-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

Entry Model	Onboard Model	High-end Model
		Automatic collimation / tracking
iM-100	FX-200	iX-1200/600

Discover MAGNET Field features and benefits.

- Intuitive user interface
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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 — Layout line — 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.