# FX-200 series

Telescope

Functional X-ellence Station



### **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

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)		]"	
Dual-axis compensator / Collimation compensation		Dual-axis liquid tilt sensor, working range: $\pm 6' (\pm 111$ mgon) /	
		Collimation compensation available	
Distance measurement			
Laser output <sup>*1</sup>	D (1 + 1 *	Reflectorless mode: Class 3R / Prism/sheet mode: Class 1	
Measuring range	Reflectorless*3	0.3 to 800m (2,620ft.) / Under good conditions <sup>*5</sup> : 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 <sup>55</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)	
	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 **		Fine: 0.9s (initial 1.5s), Rapid: 0.6s (initial 1.3s), Tracking: 0.4s (initial 1.3s)	
OS, Interface and Data manager	nent		
Operating system		Windows Embedded Compact7	
Display / Keyboard		3.5inch, Transmissive TFT QVGA color LCD with LED backlight,	
C · · · · · · *9		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	1	On right instrument support	
Data storage	Internal memory	1GB internal memory (includes memory for program files)	
Interface	Plug-in memory device	USB flash memory Serial RS-232C, USB2.0 (Type A / mini B)	
Bluetooth modem (Factory Opti	on) *9	Bluetooth Class 1, Operating range: up to 10m <sup>10</sup>	
General	011)	Bidetootil Class I, Operating lange, up to ioni	
Guide light *11		Green LED (524nm) and Red LED (626nm),	
		Operating range: 1.3 to 150m (4.3 to 490ft.) <sup>*2</sup>	
Laser-pointer *11		Coaxial red laser using EDM beam	
Calendar / clock function		Yes	
Levels	Graphic	6'(inner circle)	
LUVUIJ	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 tibrach bottom	
Weight with battery & tribrach		Approx. 5.7kg (12.3 lb.)	
Power supply		η πρησκ. 3.118 (12.3 10.)	
Battery	BDC72	Li-ion rechargeable battery	
Ballery			

\*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 980ft), RS50N-K: 1.3 to 180m (4.3 to 590ft), RS10N-K: 1.3 to 60m (4.3 to 190ft)

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\*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.

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

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\*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.

Your local Authorized Dealer is:



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# **SPECIFICATIONS**

**FX-201** 

# SOKKIN

# For professionals like you

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



ature models: RS90N-K: 1.3 to

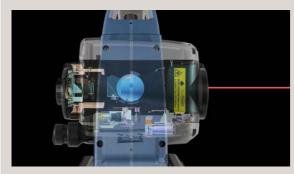


able measurements d software

# **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) Accuracy

FX-200 Previous Model	<b>1.5mm+2ppm</b> 2.0mm+2ppm	
Measurir	g Range(Reflectorless Mode)	Distance
FX-200		1,000m
Previous Model	<b>500m</b>	

# **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*
Total station Line	IID	* Good atmospheric condition





# **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<sup>®</sup> 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.