SOKKIN



Functional X-ellence Station

For professionals like you

- High performance EDM for rapid, repeatable measurements
- Modern, intuitive onboard MAGNET[®] Field software

• Convenient EDM trigger key

📲 Field

Reflectorless laser measurement

Professional results from basic to

Survey

Boundary and Cadastral Survey

Quickly and easily calculate areas with the Area function. Determine the center point for objects such as a columns or electrical poles which cannot be directly measured by using the Offset calculation.

Topographic Survey

The trigger key, or measuring distance key, helps you perform topography quickly while continuously viewing through the telescope. Also, the long distance measuring range reduces the number of the instrument changes for more efficient working time.

Traverse Adjustment

Adjust and correct closure errors for latitudes, departures, angles and/or elevations directly from the MAGNET Field onboard software.

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



Distance Measurement Accuracy (Prism Mode) FX-200
Previous
Model Accuracy 1.5mm+2ppm 2.0mm+2ppm

Measuring Range(Reflectorless Mode)

Distance

FX-200

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

C T2

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

Total station Line up

Onboard Model

FX-200

High-end Model Automatic collimation / tracking



Entry Model

Automatic collin

iX Series

PROXAC

52.000

advanced applications

Construction

Stake Points

KE 2-2

KA 2-2

A complete solution for every type of layout and stakeout is included in the software. Points, lines, offsets, roads, surfaces, slopes, and real-time roads are all available.

Topographic Survey

Collect points, lines, areas, cross sections, and surfaces including automatic topo point capture. Select Map or Measurement View and even record offset shots all while within Topo Survey

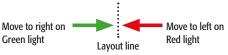
Road/Cross-Sectional Survey

All the road stakeout information can be seen on one screen as you stake anywhere along the road design in real-time. Be more productive with real-time roads information.



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

ACE

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- 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 singlebutton click. Work efficiently and increases productivity for sighting task such as Stake Out, Topography, and Elevation Stakes.

FX-200 series

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		
			Field of view: 1°30' (26m/1,000m),	
		Minimum focus: 1.3m (4.3ft.), Reticle illumination: 5 brightness levels		
Angle measurement		Minimum rocus. 1.5m (1.5n.), recu	icie indrinination. 5 brightness levels	
Display resolution		0.5" / 1" (0.0001 / 0.00	0.2000 + 0.002 / 0.005 mil)	
		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: ±6' (±111mgon) / Collimation compensation available		
2		Collimation comp	pensation 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 \sim 500m, RS50N-K: 1.3 \sim 300m, RS10N-K: 1.3 \sim 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 managen	aant		(initial 1.53), Hacking. 0.43 (initial 1.53)	
Operating system	lent	Windows Embedded Compact7		
Display / Keyboard		3.5inch, Transmissive TFT QVGA color LCD with LED backlight,		
Display/ Reyboard		÷		
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		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			'es	
Levels	Graphic	6'(inner circle)		
	Circular level	10' / 2mm		
Optical plummet			0.3m (11.8in.) from tribrach bottom	
Laser plummet (option)		Red laser diode (635nm±10nm), Beam accuracy: <=1.0mm@1.3m, Class 2 laser produc		
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		191(W)x190(D)x548(n)1111 192.5mm from tribrach mounting surface		
		236mm +5/-3mm from tibrach bottom Approx. 5.7kg (12.3 lb.)		
Weight with battery & tribrach		Approx. 5.7	/Kg (12.5 lb.)	
Power supply				
Battery	BDC72		geable battery	
Operating time (20)	BDC72	Approx. 20hours (single distance	e 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.)

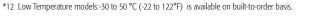
*6 Good conditions: No haze, visibility about 40km (25 miles), overcast, no scintillation.

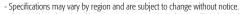
*7 Measuring range:0.3 to 200m

*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.





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