

FX-200 series

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

SPECIFICATIONS

		FX-201
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"
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 ^{*5} : 1,000m (3,280ft.)
	Reflective sheet ^{*4*}	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 ^{*5} : 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 ^{*3}	(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.) ^{*2}
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°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		
Battery	BDC72	Li-ion rechargeable battery
Operating time (20°C)	BDC72	Approx. 20hours (single distance measurement every 30 seconds)

*1 IEC60825-1:Ed2.0:2007 / 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.

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

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FX-200 series

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
- Reflectorless laser measurement



Field

