NIKON XF & XF HP TOTAL STATIONS





1", 2", 3", and 5" accuracies

Choice of EDM

Survey Basic, Survey Pro

Dual color touchscreen displays

Fast on both Initial and repeat measurement

PIN security

Superior Nikon optics

Hot swappable batteries

Made in Japan

THE NIKON XF SERIES IS BUILT TOUGH FOR ALL OCCASIONS.

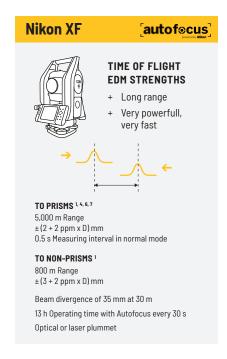
Nikon XF Series, a total station for everyone

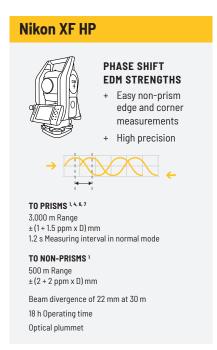
The Nikon XF mechanical total station is packed with features that make survey work easier and faster. The superior Nikon optics give crisp, bright sightings even in low light conditions.

Nikon XF portfolio gives the opportunity to choose the electronic distance measuring (EDM) technology that works best for the type of work being performed.

Choose the EDM for the work you do:

Both the Nikon XF and Nikon XF HP total stations can measure to prisms and non-prism objects at various ranges, the EDM technology in each lends itself to specific situations.







NIKON XF & XF HP TOTAL STATIONS

DISTANCE MEASUREMENT Range with specified prisms

Good conditions ¹	XF	XF HP
With single prism 6.25 cm (2.5 in)	5,000 m (16,404 ft)	3000 m (9,843 ft)
With reflector sheet 5 cm x 5 cm (2 in x 2 in)	300 m (984 ft)	270 m (886 ft)

Non-Prism mode

14011 1 114	iii iiiouc			
XF		Good ¹	Normal ²	Difficult ³
KGC (18	%)	400m (1312 ft)	300 m (984 ft)	235 m (771 ft)
KGC (90	%)	800 m (2625 ft)	500 m (1640 ft)	250 m (820 ft)
XF HP		Good ¹	Normal ²	Difficult ³
KGC (18	%)	350m (1,148ft)	250 m (820 ft)	200 m (656 ft)
KGC (90	%)	500 m (1,640 ft)	400 m (1,312ft)	250 m (820 ft)

Accuracy in precise mode7

	XF	XF HP ⁸
Prism ⁶	±(2+2 ppm × D) mm	±(1+1.5 ppm x D) mm
Non-Prism	±(3+2 ppm x D) mm	±(2+2 ppm x D) mm

Measuring Time⁴

XF	Precise mode	Normal mode	Fast mode
Prism Mode	0.9s (initial 1.4s)	0.5s (initial 1.2s)	0.3s (initial 0.7s)
Non-Prism Mode	1.0s (initial 1.5s)	0.5s (initial 1.3s)	0.3s (initial 0.8s)
XF HP	Precise mode	Normal mode	
Prism Mode	1.6 s	1.2 s	
Non-Prism Mode	2.1 s	1.6 s	

ANGLE MEASUREMENT

Accuracy

7.000.00	
(Standard Deviation based on ISO 17123-3) 1" (0.3 mgon), 2" (0.6	mgon), 3" (1.0 mgon), 5" (1.5 mgon)
Reading system	Absolute encoder
Circle diameter	62 mm (2.4 in)
Horizontal/Vertical angle	Diametrical/ Single
Minimum increment (Degree, Gon)	
1" model	0.1" (0.02 mgon)
2", 3", 5" models	1.0" (0.2 mgon)

TELESCOPE

122200012	
Tube length	
Image	Erect
Magnification	
Effective diameter of objective	
XF	45 mm
XF HP	40 mm
Field of view	1°25′
Resolving power	3"
Minimum focusing distance	
Tracklight	
Reticle Illumination	Yes, 4 steps

TILT SENSOR

туре	Duai axis
Method	Liquid-electric detection
Compensation range	±3′

COMMUNICATIONS

Communication ports	1 x serial (RS-232C), 2x USB (host and client)
Wireless Communications	Integrated Bluetooth (Class 1, Long Range)

POWER

Charging time Full charge..

not swappable Li-ion battery (x2)	
Output voltage	3.6V

	XF	XF HP
Distance and angle measurement every 30s	13 h ^{5a}	18 h
Continuous distance and angle measurement	7 h	10.5 h

GENERAL SPECIFICATIONS

Operating time⁵

Autofocus	
XF	Yes
XF HP	No
Tangent Clamps	Yes
Level vials	
Sensitivity of Circular level vial on tribrach	10'/2 mm
Display face 1	LCD back-lit (640 x 480 pixel)
Display face 2	LCD back-lit (640 x 480 pixel)
Operating system	Windows Embedded Compact 7
Processor	Dual Core 800MHz
Memory	512 MB RAM, 4 GB Flash Memory

Internal Plummet

XF	ptical or Class 2 Laser
XF HP	Optical

Optical Plummet

Magnification	3x
Field of view	5°
Minimum focusing distance	

Dimensions

(W	x D x H)	184	mm x	(169 m	nm x 3	18 mm	1 (7.2)	in x 6	7 in :	x 12.5	i

Weight (approx.)

Main unit	
XF	4.3 kg (9.5lb)
XF HP	
Carrying case	
, , , ,	3.4

FNAIL	RUNMENTAL	
Opera	ting temperature range	20 °C to +50 °C (-4 °F to +122 °F)
Storag	ge temperature range	25 °C to +60 °C (-22 °F to +140 °F)

Atmospheric Correction

Temperature range40	0 °C to +60 °C (-40 °F to +140 °F)
Barometric pressure range 400 mmHg to 999 mmHg / 533 hPa to	1,332 hPa / 15.8 inHg to 39.3 inHg

Dust and water protection. IP66

CERTIFICATION

CERTIFICATION
Class B Part 15 FCC certification, CE Mark approval. RCM Mark.
IEC60825-1 am 2007, IEC60825-1 am 2014, FDA notice 50, EAC / NCC
VE.

XF	
Prism/Non-prism mode	Class 1 laser
Laser Plummet / Laser Pointer	Class 2 laser
XF HP	
Prism mode	Class 1 laser
Non-prism mode / Laser Pointer	Class 3R laser

- 1 Good conditions (good visibility, overcast, twilight, low ambient light).
 2 Normal conditions (normal visibility, object in the shadow, moderate ambient light).
 3 Difficult conditions (haze, object in direct sunlight, high ambient light).
 4 Measuring time may vary depending on measuring distance and conditions.
 5 Specification based on average of repeated measurements.
 5 Battery life specification at 25 °C (17 °F). Operation times may vary depending on the condition and deterioration of the battery.
 5a 11 hours when EDM power save mode set to 6 seconds.
 6 Standard Deviation based on ISO 1703-74.
 7 EDM accuracy in normal mode is: XF: ±(10-5 ppm × D) mm. XF HP: ±(5+5 ppm × D) mm.
 EDM accuracy in fast mode for XF only: ±(20-5 ppm × D) mm.
 8 XF HP accuracy in standard measurement mode to a prism less than 1000m away is xf+15 ppm x D) mm. D) mm. At a range greater than or equal to 1000m, the accuracy is

- $\pm (1+1.5~ppm~x~D)$ mm. At a range greater than or equal to 1000m, the accuracy is $\pm (2+2~ppm~x~D)$ mm

Bluetooth type approvals are country specific. Specifications subject to change without notice.











Distributore autorizzato



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