NIKON XF & XF HP TOTAL STATIONS





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

Choice of EDM

Survey Pro and Layout Pro onboard

Dual color touchscreen displays

Optional L2P asset protection

PIN security

Superior Nikon optics

Hot swappable batteries

Made in Japan

THE NIKON XF SERIES IS BUILT TOUGH FOR ALL OCCASIONS.

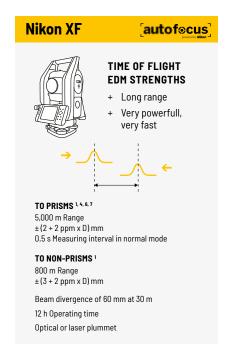
Nikon XF Series, a total station for everyone

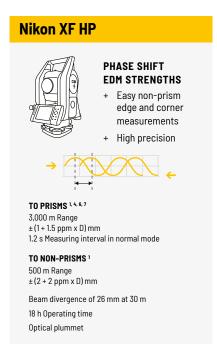
The Nikon XF mechanical total station is packed with features that make survey work easier and faster. The superior Nikon optics give crisp, bright sightings even in low light conditions.

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

Non i naminouc			
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 mode

	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 interval

XF	Precise mode	Normal mode	Fast mode
Prism Mode	1.0 s	0.5 s	0.3 s
Non-Prism Mode	1.0 s	0.5 s	0.3 s
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

(Standard Deviation based on ISO 17123-3) 1" (0.3 mgon), 2" (0.6 n	ngon), 3" (1.0 mgon), 5" (1.5 mgon)
Reading system	Absolute encoder
Circle diameter	62 mm (2.4 in)
Horizontal/Vertical angle	Diametrical/ Single

TELESCOPE

Tube length	128 mm (5.0 in)
Image	Erect
Magnification	30×(19x/38x with optional eyepieces)
Effective diameter of objective	
XF	45 mm
XF HP	40 mm
EDM Diameter	
XF	50 mm
XF HP	
Field of view	
Resolving power	
Minimum focusing distance	1.5 m (4.9 ft)
Tracklight	Yes
Reticle Illumination	
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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

Internal Li-ion battery (x2)

Output voltage	3.6	6V
output voitage		

Charging time

Full charge	

Operating time⁵

	XF	XF HP
Continuous angle-only measurement	14 h	19 h
Distance and angle measurement every 30s with Autofocus	12 h	18 h
Continuous distance and angle measurement	7 h	10.5 h

CENEDAL SPECIFICATIONS

٠,	DENEKAL OF LOW TOAT TONG	
1	Autofocus	
	XF	.Yes
	XF HP	No
1	Tangent Clamps	.Yes

Level viais	
Sensitivity of Circular level vial on tribrach1072 m	nm
Display face 1LCD back-lit (640 x 480 pix	(el)
Display face 2LCD back-lit (640 x 480 pix	(el
Operating system	t 7
ProcessorDual Core 800M	ΙHz
Memory	ory

Internal Plummet

XF	Optical or Class 2 Laser	
ΧF	IPOptical	

Optical Plummet

Magnification	3x
Field of view	5°
Minimum focusing distance	

2	
(W x D x H)	206 mm x 169 mm x 318 mm (8.1 in x 6.7 in x 12.5 in)

Weight (approx.)

Main unit	
XF	4.3 kg (9.5lb)
XF HP	
Carrying case	3.3 kg (7.3 lb)
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ENVIRONMENTAL

Operating temperature range	20 °	°C to +50	°4-0° (-4°	F to +122	°F)
Storage temperature range	-25°C	to +60	°C (-22 °I	- to +140	۲°F)

Atmospheric Correction

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

Dust and water protection... . IP66

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

XF	
Prism/Non-prism mode	Class 1 laser
Laser Plummet / Laser Pointer	Class 2 laser
XF HP	
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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 (77 °F). Uperation times may vary depending on the condition and deterioration of the battery.
 6 Standard Deviation based on ISO 17123-4
 7 EDM accuracy in normal mode is: XF: ±(10-5 ppm × 0) mm, XF HP: ±(5+5 ppm × 0) mm EDM accuracy in fast mode for XF only: ±(20-5 ppm × 0) mm.
 8 XF HP accuracy in standard measurement mode to a prism less than 1000m away is ±(1-1.5 pm x 0) mm. At a range greater than or equal to 1000m, the accuracy is
- ±(1+1.5 ppm x D) mm. At a range greater than or equal to 1000m, the accuracy is ±(2+2 ppm x D) mm

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











CONTACT INFORMATION:

Americas

10368 Westmoor Drive Westminster, CO 80021 • USA +1-720-587-4700 Phone 888-477-7516 (Toll Free in USA)

Europe, Middle East and Africa

Rue Thomas Edison ZAC de la Fleuriaye - CS 60433 44474 Carquefou (Nantes) • FRANCE +33-(0)2-28-09-38-00 Phone

Asia-Pacific

80 Marine Parade Road #22-06, Parkway Parade Singapore 449269 • SINGAPORE +65-6348-2212 Phone

Please visit spectraprecision.com for the latest product information and to locate your nearest distributor. Specifications and descriptions are subject to change without notice.