# SOKKIA

## NETOSAX II NETIAXII 3D Station

11100

Sensors Ultimately Pursued Ultra High-precision Support Accurate Measurement in Industrial Measurement and Monitoring Applications

SOKKIN

- Ultra High-precision Angle and Distance Measuring Systems
- 1" Auto Pointing Accuracy \*
- Remote Control through on-line PC
- Exclusive Reflector Prescan Technology
- Enforced Durability for Long Term Deformation / Monitoring Applications
- The SDR4000<sup>2</sup>, Exclusive Software for Ultra High-precision data management
- \*1 When measured with standard prism
- \*2 Optional. The SDR4000 software can be chosen from versions for on-board or to run on a data collector.



\* \*For more detail of TSshield, please refer to the TSshield's leaflet. This service may not be available in some areas.

## NETO5AXI/NET1AXI **3D** Station

**SPECIFICATIONS** 

Model		NET05AXII	NET1AXII
Telescope			
Magnification / Resolving por	wer	30x / 2.5"	
		nage: Erect, Field of view: 1°30' (26 m/1,000	m) Minimum focus: 1.3 m (4.3 ft.)
Angle measurement		lage. Liect, field of view. 1 50 (20 m/1,000 h	m), Minimum rocus. 1.5 m (4.5 m.),
		0.5" / 1" (0.0001 / 0.0002 gon, 0.002 /	0.00E mil)
Display resolutions (selectable)		0.5"	1"
Accuracy (ISO 17123-3:2001)			
Dual-axis compensator / Collimation compensation		Dual-axis liquid tilt sensor, working range: $\pm 6'$ / Collimation compensation	
IACC (Independent Angle Co	liburation (Custom)	available	
IACS (Independent Angle Ca	lindration System)	Provided	
Distance measurement			
Laser output <sup>*1</sup>	*2	Reflectorless mode: Class 3R / Prism/sheet mode: Class 1	
Measuring range	One prism <sup>*3</sup>	1.3 to 3,500 m (4.3 to 11,480 ft.)	
(under good conditions <sup>*2</sup> )	Reflective sheet RS50N-R*4	1.3 to 200m (4.3 to 640 ft.)	
	Reflectorless*5	0.5 to 100 m (1.64 to 320 ft.)	0.5 to 400 m (1.64 to 1,310 ft.)
Minimum display		0.00001 m / 0.0001 m	0.0001 m / 0.001 m
		(0.0001 ft. / 0.001 ft., 1/64 in. / 1/16	0.001 ft. / 0.01 ft., 1/16 in. / 1/8 in.)
		in.)	
Accuracy	Prism <sup>*3</sup>	(0.8 + 1ppm x D) mm	(1 + 1ppm x D) mm
(ISO 17123-4:2001)	Reflective sheet <sup>*4</sup>	(0.5 + 1ppm x D) mm	(1 + 1ppm x D) mm
D=measuring distance in mm		(1 + 1ppm x D) mm	(2 + 1ppm x D) mm <sup>*6</sup>
Measuring time (Fine mode)*		0.9s (initial 1.5s)	/ · · · · · /
Motor			
Туре		DC motor drive	
Rotation speed		85°/s	
Auto-Collimating		00,0	
Working range	One prism	1.3 to 1,000 m (4.3 to 3,280 ft.)	
(under avarage conditions <sup>*8</sup> )	Reflective sheet RS50N-R*9	5 to 50m (16 to 160ft.)	
Sighting accuracy	prism	1" (1 mm @ 200 m)	
(ISO 17123-3)	Reflective sheet <sup>*9</sup>	4" (1 mm @ 50 m)	
OS, Interface and Data ma		4 (1 mm @ 50 m)	
	anagement	Wide awa Each adda d CE C O	
Operating system Display <sup>*10</sup>		Widnows Embedded CE 6.0	
Display		3.5inch, transmissive TFT QVGA color LCD with LED backlight, Touch screen, Automati	
		brightness control	
Keyboard <sup>*10</sup>		25 keys with backlight	
Trigger key		On right instrument support	
Data storage	Internal memory	500MB (includes memory for program files)	
	Plug-in memory device	USB flash memory (up to 8 GB)	
Calendar / clock function		Provided	
Interface		Serial RS-232C, USB2.0 (Type A / miniB)	
Bluetooth modem <sup>*11</sup>		Bluetooth Class 1, Ver.2.1+EDR, Operating range: up to 600m (1,960 ft.) <sup>*12</sup>	
General			
Target searchlight		LED (white), Blink / On, selectable	
Laser-pointer		Coaxial red laser using EDM beam, ON / OFF, selectable	
Levels	Graphic	6' (Inner Circle)	
	Circular level	10' / 2 mm	
Optical plummet		Magnification: 3x, Minimum focus: 0.3m (11.8in.) from tribrach bottom	
Dust and water protection / Operating temperature		IP65 (IEC 60529:2001) / -20 to +50°C (-4 to +122°F)	
Size with handle <sup>*10</sup>		Display and keyboaed on one face: 230 (W) X 196 (D) X 393 (H) mm	
Weight with battery & tribrach <sup>*10</sup>		Display and keyboaed on both faces: 230 (W) X 207 (D) X 393 (H) mm	
		Display and keyboaed on one face: 6.8 kg (15.0 lb)	
		Display and keyboaed on both faces: 7.	0 kg (15.4 lb)
Power supply			
Battery			
		Approx.4 hours	
Operating time (20°C) <sup>*13</sup>	BDC70	Approx.4 hours	

\*11 IEC60825-1:Ed.2.0:2007 / FDA CDRH 21 CFR Part 1040.10 and 11 \*2 Good conditions: No haze, visibility about 40km (25 miles), overcast, no scintillation. \*3 Face the prism to the instrument during the measurement with the distance at 10 m or less. \*4 Face the reflective sheet target to the instrument. \*5 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. \*6 Measuring range: 0.5 to 200 m \*7 Fastest time under good atmospheric conditions\*2, no compensation, EDM ALC at appropriate setting, slope distance. \*8 Average conditions: Slight haze, visibility about 20km (12 miles), sunny periods, weak scintillation. \*9 Figures when the Auto Pointing beam strikes within 15° of the reflective sheet target. \*10 Control panel and keyboard location may vary depending on region or model. \*11 Usage approval of Bluetooth wireless technology varies according to country. Please consult your local office or representative in advance. \*12 Paired with RC-PR5, with instrument height to be more than 1.5m, no obstacles (like building structures, trees or vehicles) causing interrupting/reflecting radio wave, few sources of radio emissions/interference in the near vicinity of the instrument, no rain. \*13 Fine distance measurement (single) using Auto Pointing, repeated every 30 seconds

### Standard package components

•NET Main unit •Battery (BDC70) x 2 •Battery charger (CDC68A) •Power cable (EDC113A/113B/113C etc.) •Stylus pen •Lens cap •Lens hood •Tool pouch •Screwdriver Lens brush Adjusting pin x 2 Vinyl cover Wiping cloth Quick Manual Standard package components Precautions for Safe Operation OUSB memory (Manual) • Export restrictions card (Be sure to read) •Laser caution sign-board •Carrying case •Carrying strap



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