SOKKIA

NETO5X

Featuring 0.5" angle accuracy and sub-millimeter EDM, the NETO5X 3D Station offers the highest precision in its class in a broad range of applications.



point survey to long baseline measurement

Equipped with a variety of innovative features, the NET05X provides ideal solutions for the most demanding surveying and measurement tasks that require the highest in precision

■ 0.5" Angle Accuracy

• The combination of market-proven absolute rotary encoders and advanced Independent Angle Calibration System (IACS) provides the industry's highest angle accuracy.

■ Sub-millimeter EDM

- SOKKIA's cutting-edge distance measurement technology ensures unmatched comprehensive performance.
- "0.5mm+1ppm" accuracy with reflective sheet targets in the range of 200m (650ft.).
- "0.8mm+1ppm" with a standard prism up to 3,500m (11,480ft.).
- "1mm+1ppm" precision without reflector up to 100m (320ft.).
- Measurement time is as fast as 2.4 seconds in "fine" mode.

Superior Telescope

The superior telescope boasts 2.5" high resolving power as well as unparalleled brightness and sharpness.

Perfectly Aligned Laser Pointe

- Red EDM beam works as a laser pointer.
- The perfectly aligned laser can be used for precise setting out and alignment tasks indoor or underground conditions.

■ Target Illumination

Prisms or sheet targets can be easily located in dim lighting conditions using the high-intensity white LED built into the telescope.



Advanced User-Interface with Windows CE

A highly visible touch screen display and a fully illuminated keyboard allow easy operation in tunnels, at night, and in lowlight conditions.



An optional Remote Trigger DLC1 enables wireless operation.

■ IP65 Environmental Protection

- The NET05X boasts a robust IP65 dust- and water-resistant body.
- Weatherproof multi-port maintains IP65 protection even when connected to a data cable or an external battery.

■ Bluetooth® Wireless Communication

• Built-in Class 1 Bluetooth modem allows wireless communication with an external controller or PC to a range of 200m (650ft.).

■ Wide Variety of Reflectors

SOKKIA's full line of innovative reflectors maximizes the measurement accuracy and efficiency.



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NET05X Specifications

METOOK Ope	omoations	
Telescope		Magnification: 30x, Resolving power: 2.5"
		Minimum focus: 1.3m (4.3ft.)
Angle measurement		Absolute rotary encoder scanning, diametrical detection
Display resolution		0.1" / 0.5", 0.02 / 0.1mgon, 0.0005 / 0.002mil
Accuracy (ISO 17123-3:2001)		0.5", 0.15mgon, 0.0025mil
IACS		Provided (Independent Angle Calibration System)
Automatic dual-axis compensator		Working range: ±4' (±74mgon)
Distance measurement		Modulated laser, phase comparison method
		with red laser diode (690nm)
Laser output*1	Reflectorless mode	Class 3R (max. 5mW)
	Prism/Sheet mode	Class 1 equivalent (max. 0.22mW)
Measuring range*2 (D=measuring range, Unit: mm)	Reflective sheet*3	1.3 to 200m (4.3 to 650ft.) (with RS50N-R)
	One AP prism	1.3 to 3,500m (4.3 to 11,480ft.)
	CP compact prism	1.3 to 800m (4.3 to 2,620ft.)
	Reflectorless*4	0.3 to 100m (1.0 to 320ft.)
Unit		Meter / Foot / US foot / US foot + inch
Display resolution		0.01mm / 0.1mm, 0.0001 / 0.001ft., 1/64 / 1/16in.
Accuracy*2 (ISO 17123-4:2001)	Reflective sheet*3	(0.5 + 1ppm x D) mm
	AP/CP prism	(0.8 + 1ppm x D) mm
	Reflectorless*4	(1 + 1ppm x D) mm
Measuring time		Fine: <0.9s (initial <2.4s), Rapid: <0.6s (initial <2.0s)
		Tracking: <0.4s (initial <1.3s)
Beam spot size (Reflectorless mode)	Height x Width	3 x 5mm@2m, 5 x 6.5mm@10m, 11 x 9mm@40m
		0.20 x 0.26in.@32ft., 0.43 x 0.35in.@130ft.
Interface and Data management		
Operating system		Windows CE Ver. 5.0
Display		3.5in. TFT color LCD with backlight, touch screen, on both faces
DLC1 Remote Trigger (optional)		Infrared, Operating range: 0.5m (1.6ft.)
Data storage		Internal memory (1MB), CF card, SD card, USB memory
Interface		Serial RS-232C / USB1.1: Type A, Type mini B
Bluetooth wireless modem		Class 1, Operating range: 200m (650ft.)
SFX data transfer		Provided
General		
Sensitivity of levels		Plate level: 20" / 2mm, Circular level: 10' / 2mm
Optical plummet		Magnification: 7x
Dust and water protection		IP65 (IEC 60529:2001)
Operating temperature		-20 to +50°C (-4 to +122°F)
Size with handle & battery		201 (W) x 220 (D) x 375 (H)mm (W8.0 x D8.7 x H14.8in.)
Weight with handle & battery		7.1kg (15.7 lb.)
Power supply		7.2 to 12 V DC
Battery	BDC58	Li-ion rechargeable battery (4.3Ah, 2 included as standard)
Operating time*5 at 20°C (68°F)	BDC58	Approx. 14hours
	External battery	BDC60: Approx. 19hours, BDC61: Approx. 38.5hours

- *1 IEC60825-1 Amd.2:2001 / FDA CDRH 21 CFR Part 1040.10 and 11
- *2 Under good conditions: No haze, visibility about 40km (25 miles), overcast, no scintillation.
- *3 When squarely aligned with the target.
- *4 With Kodak Gray Card White Side (90% reflective). When brightness on measured surface is 30,000 lx. or less (no direct sunlight).
- *5 Single measurement every 30 seconds.



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