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# SOKKIA

# DX Series

## Direct Aiming X-ellence Station



- Superior Auto Pointing Technology
- Advanced Angle Measurement System
- RED-tech Technology Reflectorless EDM
- LongRange Data Communication
- MAGNET™ Field On-Board Software

# Get the Job Done Quickly and Easily in any Environment.

## New Auto Pointing "Direct Aiming Technology"

The DX Series employs "Direct Aiming Technology" featuring a new intelligent algorithm that automatically aims to the prisms with precisely corrected angle readings.

The technology works even in dim or dark conditions where the prism is difficult to be found. Whatever the job requires and wherever operators must go, the DX Series gets your job done faster and easier while still maintaining high accuracy.



Rough Aiming

Push the Trigger key

Auto Pointing

## Automatic Aiming Function is Productivity

The DX Series provides consistent auto pointing accuracy speed regardless of operators skill level.

- More than what human eyes can do
- Easy "Stake-out" operation
- Higher productivity in your job field
- Mesh Scan operation
- Easy "Topo" operation



## RED-tech Technology Reflectorless EDM

- Reflectorless operation from 30cm to 1,000m\*.
- Sokkia's traditional pinpoint precision in reflectorless distance measurement.
- Fast distance measurement of 0.9 seconds.
- Coaxial EDM beam and laser-pointer provide fast and accurate aiming.
- Ensures accuracy even with reflective sheets.

\* With Kodak Gray Card white side (90% reflective).  
Brightness level at object surface: <math>\leq 500 \text{ lx}</math>.



## LongRange Data Communication

The DX Series of total stations feature Bluetooth® Class1 technology for reliable data communications.



## Advanced Angle Measurement System

Sokkia's original absolute encoders provide long-term reliability in any job site condition. DX-101 features groundbreaking IACS (Independent Angle Calibration System).



## Waterproof and Rugged

- IP65 dustproof / waterproof rating.
- Standard usage temperature range -20 to +50°C.



## User-Friendly Operation

"STAR-KEY" instantly brings up functions. Trigger key lets you take a series of measurements without taking your eye from the telescope. Control panel consists of 26-key board with color LCD touch screen display.

## TSshield



An industry first!

New function to protect your investment

TSshield is a standard feature on all new models of Sokkia total stations. Its advanced communication system provides new opportunities to secure and maintain your investment.

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

**Fast and Powerful EDM  
1,000m Non-Prism Range**

**Easy Access USB Type  
A/B Flash Drive Port**

**Rugged Waterproof/  
Dustproof IP65 Design**

**Industry's First  
TSshield System**

**Advanced Angle  
Measurement System**

**Exclusive "STAR-KEY"  
Functionality**

**Backlit 26 Key Keyboard  
with Directional Arrow Key**



### Easy "Topo" and "Stake-out" Operation

Just "Rough Aim" and "Press Trigger button" to get precise aiming and measurement to the prism target. Stake-out can be easily done by automatic turning and guide light.



## Software

MAGNET™ software is tailored for use with Sokkia total stations in both field and office works.

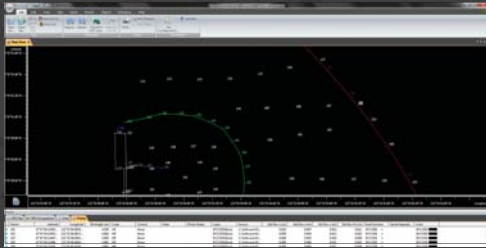
### MAGNET™ Enterprise

A managers dream of tracking all field and office data in one simple to access web interface. Store and exchange your field data in the Enterprise cloud. Save the drive time by sending your field and office updates to the cloud rather than driving back to the office.



### MAGNET™ Office

Full CAD functionality with MAGNET™ Office Site and Topo. Or field data processing with MAGNET™ Office Tools inside AutoCAD® products, like Civil3D®. The MAGNET™ Office solution has what you need. Pick the module that fits your needs.



### MAGNET™ Field

Powerful on-board software that covers full functions for surveying and engineering tasks. MAGNET™ Field handles data collection, stake out, roads and coordinate geometry.



# SOKKIA

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SOK-1023 Rev A 8/13

## DX Series

DIRECT AIMING X-CELLENCE STATION

## SPECIFICATIONS

Model	DX-101AC	DX-103AC	DX-105AC
<b>Telescope</b>			
Magnification / Resolving power	30x / 2.5"		
Length: 168mm (6.6in.), Objective aperture: 45mm (1.8in.) (50mm (2.0in.) for EDM), Image: Erect, Field of view: 1°30' (26m/1,000m), Minimum focus: 1.3m (4.3ft.), Reticle illumination: 5 brightness levels			
<b>Angle measurement</b>			
Display resolutions (selectable)	0.5" / 1" (0.0001 / 0.0002gon, 0.002 / 0.005mil)	1" / 5" (0.0002 / 0.001gon, 0.005 / 0.02mil)	
Accuracy (ISO 17123-3:2001)	1"	3"	5"
IACS (Independent Angle Calibration System)	Provided		
Dual-axis compensator / Collimation compensation	Dual-axis liquid tilt sensor, working range: ±6' / Collimation compensation available		
<b>Distance measurement</b>			
Laser output	Reflectorless mode: Class 3R / Prism/sheet mode: Class 1		
Measuring range (under average conditions)	Reflectorless	0.3 to 800m (2,620ft.) / Under good conditions: to 1,000m (3,280ft.)	
	Reflective sheet	RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.), RS10N-K: 1.3 to 100m (4.3 to 320ft.)	
	Mini prisms	CP01: 1.3 to 2,500m (8,200ft.), OR1PA: 1.3 to 500m (1,640ft.)	
	One AP prism	1.3 to 5,000m (4.3 to 16,400ft.) / Under good conditions: 6,000m (16,680ft.)	
	Three AP prism	to 8,000m (26,240ft.) / Under good conditions: to 10,000m (32,800ft.)	
Display resolution	Fine: 0.0001 / 0.001m (0.001 / 0.01ft., 1/16 / 1/8in.) Rapid: 0.001m / 0.01ft. / 1/8in. Tracking: 0.01m / 0.1ft. / 1/2in.		
Accuracy (ISO 17123-4:2001) (D=measuring distance in mm.)	Reflectorless	(2 + 2ppm x D) mm	
	Reflective sheet	(2 + 2ppm x D) mm	
	AP/CP prism	(1.5 + 2ppm x D) mm	
Measuring time	Fine: 0.9s (initial 1.5s), Rapid: 0.6s (initial 1.3s), Tracking: 0.3s (initial 1.3s)		
<b>Motor drive system</b>			
Type	DC Servo motor		
Max Rotation speed	70°/sec		
<b>Auto Pointing</b>			
Working range	One AP prism	1.3 to 1,000m	
	Reflective sheet	5 to 50m	
	360° prism	2 to 600m	
	Mini prisms	CP01: 1.3 to 700m, OR1PA 1.3 to 500m	
<b>OS, Interface and Data management</b>			
Operating system / Application	Microsoft Windows CE 6.0 / MAGNET™ Field		

## Kit Components

DX Series Total Station  
Battery x2 (BDC70)  
Battery charger (CDC68)  
Power cable  
Lens cap  
Lens hood  
Tool pouch  
Screwdriver  
Lens brush  
Adjusting pin x2  
Cleaning cloth

Operation manual  
USB memory  
Laser caution sign-board  
Carrying case  
Carrying strap x2



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