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

**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: <=500 lx.

**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.

**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.
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.

- Fast and Powerful EDM 1,000m Non-Prism Range
- Industry’s First TSshield™ System
- Advanced Angle Measurement System
- Exclusive “STAR-KEY” Functionality
- Backlit 26 Key Keyboard with Directional Arrow Key
- Easy Access USB Type A/B Flash Drive Port
- Rugged Waterproof/Dustproof IP65 Design

SOKKIA DX Series
DIRECT AIMING EXCELLENCE STATION
Software
MAGNET™ software is tailored for use with Sokkia total stations in both field and office work.

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™ Offi ce
Full CAD functionality with MAGNET™ Offi ce Site and Topo. Or field data processing with MAGNET™ Offi ce Tools inside AutoCAD® products, like Civil 3D®. The MAGNET™ Offi ce 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.

SPECIFICATIONS

Model
DX-101AC
DX-103AC
DX-105AC

Telescope
Magnification / Resolving power
30x / 2.5" (0.0001 / 0.0002 gon, 0.002 / 0.005mil)
1" / 5" (0.0002 / 0.001 gon, 0.005 / 0.02 mil)

Accuracy (ISO 17123-3:2001)
1"
3"
5"

IACS (Independent Angle Calibration System)
Provided

Dual-axis compensation / Collimation compensation
Dual-axis liquid tilt sensor, working range: ±6'/Collimation compensation available

Distance measurement
Laser output
Reflectorless mode: Class 3R / Prism/sheet mode: Class 1

Measuring range (under average conditions)
Reflecctive 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.), CR10: 1.3 to 500m (4.3 to 1,640ft.), OR1PA: 1.3 to 500m (4.3 to 1,640ft.)

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)

Motor drive system
Type
DC Servo motor
Max Rotation speed
70°/sec

Auto Pointing
Working range
One AP prism: 1.3 to 1,000m
360° prism: 2 to 800m

OS, Interface and Data management
Operating system / Application
Microsoft Windows CE 6.0 / MAGNET™ Field

Kit Components
DX Series Total Station
Operation manual
Battery x2 (BDC70)
USB memory
Battery charger (CDC68)
Laser caution sign-board
Power cable
Carrying case
Lens cap
Carrying strap x2
Lense hood
Screwdriver
Lens brush
Adjusting pin x2
Cleaning cloth