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

Provided by Xpert Survey Equipment
Click Sokkia DX-102AC for Product Info and Updated Pricing

Direct Aiming X-ellence Station
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

Easy Access USB Type A/B Flash Drive Port

Advanced Angle Measurement System

Rugged Waterproof/Dustproof IP65 Design

Exclusive “STAR-KEY” Functionality

Backlit 26 Key Keyboard with Directional Arrow Key

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

Industry’s First TSshield ™ System

Easy Access USB Type A/B Flash Drive Port

Advanced Angle Measurement System

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Exclusive “STAR-KEY” Functionality

Backlit 26 Key Keyboard with Directional Arrow Key
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 data to the cloud rather than driving back to the office.

MAGNET™ Offi ce
Full CAD functionality with MAGNET™ Offi ce Site and Topo. Or fi eld data processing with MAGNET™ Offi ce Tools inside AutoCAD® products, like Civil3D®. 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

<table>
<thead>
<tr>
<th>Model</th>
<th>DX-101AC</th>
<th>DX-103AC</th>
<th>DX-105AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telescope</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnification / Resolving power</td>
<td>30x / 2.5’</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length: 160mm (6.3 in.), Objective aperture: 45mm (1.8 in.) / 50mm (2.0 in.) for EDM. Image: Erect, Field of view: 1°30’ (26m/1,000m), Minimum focus: 1.3m (4.3 ft.), Reticle illumination: 5 brightness levels</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angle measurement</td>
<td>Display resolutions (selectable)</td>
<td>0.5” / 1” (0.0001 / 0.0002gon, 0.002 / 0.005mil)</td>
<td>1” / 5” (0.0002 / 0.001gon, 0.005 / 0.02mil)</td>
</tr>
<tr>
<td>Accuracy (ISO 17123-3:2001)</td>
<td>1”</td>
<td>3”</td>
<td>5”</td>
</tr>
<tr>
<td>IACS (Independent Angle Calibration System)</td>
<td>Provided</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual-axis compensation / Collimation compensation</td>
<td>Dual-axis liquid tilt sensor, working range: ±8 / Collimation compensation available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance measurement</td>
<td>Laser output</td>
<td>Reflectorless mode: Class 3R / Prism/sheet mode: Class 1</td>
<td></td>
</tr>
<tr>
<td>Measuring range (under average conditions)</td>
<td>Reflective sheet</td>
<td>RS90N-K: 1.3 to 500m (4.3 to 1,640ft.)</td>
<td>RS50N-K: 1.3 to 300m (4.3 to 980ft.), RS10N-K: 1.3 to 100m (4.3 to 320ft.)</td>
</tr>
<tr>
<td>Display resolution</td>
<td>Fine: 0.0001m (0.001in.) / 0.01 / 0.1 / 1/16 / 1/8in., Rapid: 0.001m / 0.01ft. / 1/16 / 1/8in., Tracking: 0.01m / 0.1ft. / 1/16 / 1/8in.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accuracy (ISO 17123-4:2001)</td>
<td>(D = measuring distance in mm)</td>
<td>(2 + 2ppm x D) mm</td>
<td>(2 + 2ppm x D) mm</td>
</tr>
<tr>
<td>Measuring time</td>
<td>Fine: 0.9s (initial 1.5s), Rapid: 0.6s (initial 1.3s), Tracking: 0.3s (initial 1.3s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor drive system</td>
<td>Type</td>
<td>DC Servo motor</td>
<td></td>
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<tr>
<td>Max Rotation speed</td>
<td>70°/sec</td>
<td></td>
<td></td>
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<tr>
<td>Auto Pointing</td>
<td>Working range</td>
<td>One AP prism: 1.3 to 1,000m</td>
<td>5 to 50m</td>
</tr>
<tr>
<td>OS, Interface and Data management</td>
<td>Operating system / Application</td>
<td>Microsoft Windows CE 6.0 / MAGNET™ Field</td>
<td></td>
</tr>
</tbody>
</table>

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
Lens hood
Screwdriver
Adjusting pin x2
Cleaning cloth

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