Superior Auto-Pointing Technology

Automatic Precision

- Superior Auto-Pointing Technology
- Advanced Angle Measurement System
- RED-tech Technology Reflectometer EDM
- LongRange Data Communication
- Waterproof, Rugged, and User Friendly Operation
- MAGNET Field On-Board Application Software

SX Series

Superior X-ellence Station

Automatic Precision

- Advanced Angle Measurement System
- RED-tech Technology Reflectometer EDM
- LongRange Data Communication
- Waterproof, Rugged, and User Friendly Operation
- MAGNET Field On-Board Application Software

SX-105T

Superior X-ellence Station

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<Contact to>
Sokkia Singapore Positioning Sales Pte. Ltd.
61 Alexandra Terrace. #08-27 The Comtech, Singapore 118502
Phone: (+65)6479-3966 Fax: (+65)6479-4966
Email: sales@sokkia.com.sg
Website: www.sokkia.com.sg

Topcon Corporation
75-1 Musashino-shi, Nakatsugawa-ku, Tokyo 180-0014, Japan
Phone: (+81)3-6073-5000 Fax: (+81)3-6073-4018
www.topcon.co.jp

Standard Accessories
- SX main unit, battery charger (BDC70)
- Battery charger (C2060)
- Power Cable
- Lens cap
- Lens hood
- Tool pouch
- Adjustment pin x2
- Cleaning cloth
- Operation manual
- USB memory
- Plastic sign-board
- Carrying case
- Carrying strap

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Rapidly Points. Accurately Measures.

- Superior Auto-Pointing Technology
  
  Incorporating cutting-edge laser and image processing technologies, the SX provides extremely reliable auto-pointing capability. Even in dense woods or in dim conditions, the SX rapidly finds a prism and accurately measures its position, ensuring maximum work efficiency under all job site environments. The SX provides a wide auto-ranging range from 1.3m to 1,000m with a standard prism.

- Simple and Easy
  
  Point the SX in the general direction of the prism, press the trigger key, and the SX automatically points to the prism center. This enables even a beginner to rapidly take accurate measurements.

- Faster, Less Effort
  
  By eliminating the need for the focusing telescope and adjusting fine motion screws, the SXR dramatically increases survey speed.

- Advanced Angle Measurement System
  
  - SX features SOKKIA’s original absolute encoders that provide long-term reliability in any job site condition. Dual-axis compensator ensures stable measurements even when setup on uneven terrain.
  - SX-101 and 102 feature groundbreaking IACS (Independent Angle Calibration System) technology for extremely reliable angle measurements.

- RED-tech Technology
  
  Reflectorless EDM
  
  - Fast-distance measurement of 0.8s regardless of object.
  - SOKKIA traditional pinpoint precision in reflectorless distance measurement.
  - Reflectorless operation from 30cm to 800m.
  - Coaxial EDM beam and laser-pointer provide fast and accurate aiming.
  - Ensures accuracy even with reflective sheets.

- Ultra-Narrow Laser Beam
  
  Ultra-narrow red laser beam is also used for the laser pointer, ensuring exceptional pinpoint precision in reflectorless measurement.

- Measuring beam spot size (reflectorless mode)

<table>
<thead>
<tr>
<th>Distance</th>
<th>Measuring spot size (height x width)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1m (3.3ft)</td>
<td>7 x 8mm (0.28 x 0.35in.)</td>
</tr>
<tr>
<td>4m (13.1ft)</td>
<td>14 x 16mm (0.55 x 0.63in.)</td>
</tr>
<tr>
<td>8m (26ft)</td>
<td>28 x 24mm (1.14 x 0.94in.)</td>
</tr>
<tr>
<td>10m (33ft)</td>
<td>38 x 24mm (1.50 x 0.94in.)</td>
</tr>
<tr>
<td>50m (164ft)</td>
<td>123 x 89mm (4.84 x 3.50in.)</td>
</tr>
</tbody>
</table>

- Auto-Tracking Model feature

- LongRange Data Communication
  
  - Up to 50m (164ft) Bluetooth communication
  - All SX data is instantly available at the Bluetooth-equipped controller.

- RC-PR5 Remote Control System
  
  The RC-PR5 On-Demand Remote allows for rapid prism search regardless of your position. A built-in directional sensor constantly monitors the prism movement so the SX can turn left or right whichever direction is closer.

- Precision 360° Prisms
  
  Advanced prism configuration provides unsurpassed measurement precision due to a minimum offset of each prism center. ATP1 fits a range pole; ATP1S sliding prism is designed for a pin pole.

- Waterproof, Rugged, and Operator Friendly

  - IP65 dustproof / waterproof rating.
  - Metal chassis and heavy-duty handle.
  - Standard usage temperature range -20 to +50°C.
  - New star key [ ] instantly brings up functions.
  - Trigger key lets you take a series of measurements without taking your eye off the telescope.
  - Control panel consists of 10-key board with color LCD touch screen display.
  - USB type A / mini B as well as serial ports.

- Green / Red telescope guide lights provide efficient guidance in a range up to 150m.

- Cloud-based Solutions for Precise Positioning

  MAGNET™ is a software family that uses the “cloud” to seamlessly connect the field and office for data exchange, communications, asset tracking and more.

  Real-time connections. When you need it. Where you need it.

- MAGNET™ Field

  Data collection, stakeout, roads, and coordinate geometry.