**SX Series**

**Superior X-ellence Station**

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SX-101P</th>
<th>SX-102P</th>
<th>SX-103P</th>
<th>SX-101T</th>
<th>SX-102T</th>
<th>SX-103T</th>
<th>SX-105T</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Auto-Tracking / Auto-Pointing</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Model</td>
<td>SX-101P</td>
<td>SX-102P</td>
<td>SX-103P</td>
<td>SX-101T</td>
<td>SX-102T</td>
<td>SX-103T</td>
</tr>
<tr>
<td>Auto-Tracking</td>
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<tr>
<td>Auto-Pointing</td>
<td></td>
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</tr>
<tr>
<td>Operating range</td>
<td>0.3m to 20m (1 to 66ft.)</td>
<td>0.3m to 20m (1 to 66ft.)</td>
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<td>0.3m to 20m (1 to 66ft.)</td>
</tr>
<tr>
<td>Rotation speed / Auto Tracking speed</td>
<td>0.5/1 / 2</td>
<td>0.5/1 / 2</td>
<td>0.5/1 / 2</td>
<td>0.5/1 / 2</td>
<td>0.5/1 / 2</td>
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</tr>
</tbody>
</table>

**Angle Measurement**

<table>
<thead>
<tr>
<th>Model</th>
<th>SX-101P</th>
<th>SX-102P</th>
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<th>SX-102T</th>
<th>SX-103T</th>
<th>SX-105T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine mode</td>
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<td></td>
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<tr>
<td>Hyper fine mode</td>
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</table>

**Distance Measurement**

<table>
<thead>
<tr>
<th>Model</th>
<th>SX-101P</th>
<th>SX-102P</th>
<th>SX-103P</th>
<th>SX-101T</th>
<th>SX-102T</th>
<th>SX-103T</th>
<th>SX-105T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy*</td>
<td>±(2mm + 2ppm x D) mm</td>
<td>±(2mm + 2ppm x D) mm</td>
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<td>±(2mm + 2ppm x D) mm</td>
</tr>
<tr>
<td>Measuring Range*</td>
<td>0.3m to 20m (1 to 66ft.)</td>
<td>0.3m to 20m (1 to 66ft.)</td>
<td>0.3m to 20m (1 to 66ft.)</td>
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<td>0.3m to 20m (1 to 66ft.)</td>
</tr>
</tbody>
</table>

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**Standard Accessories**

- SX main unit
- Wedge
- Battery charger (CDC68)
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- Wedge
- Battery charger (CDC68)

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**Automatic Precision**

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

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**Contact to**

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Website: www.sokkia.com.sg

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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 also 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.

### Auto-Tracking Model feature
- **Long Range Data Communication**
  - The SX series of total stations features Bluetooth® Class 1 wireless technology for reliable data communications.
  - All SX data is instantly available at the Bluetooth-equipped controller.

### 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.
  - Reflectoless 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>Diameter (height x width)</th>
<th>Diameter (height x width)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>10m (33ft.)</td>
<td>0.28 x 0.35in.</td>
<td>0.35 x 0.55in.</td>
<td>0.35 x 0.55in.</td>
<td>0.35 x 0.55in.</td>
</tr>
<tr>
<td>40m (131ft.)</td>
<td>0.55 x 0.55in.</td>
<td>0.55 x 0.55in.</td>
<td>0.55 x 0.55in.</td>
<td>0.55 x 0.55in.</td>
</tr>
<tr>
<td>100m (328ft.)</td>
<td>0.69 x 0.69in.</td>
<td>0.69 x 0.69in.</td>
<td>0.69 x 0.69in.</td>
<td>0.69 x 0.69in.</td>
</tr>
<tr>
<td>300m (984ft.)</td>
<td>0.99 x 0.99in.</td>
<td>0.99 x 0.99in.</td>
<td>0.99 x 0.99in.</td>
<td>0.99 x 0.99in.</td>
</tr>
<tr>
<td>500m (1,640ft.)</td>
<td>1.29 x 1.29in.</td>
<td>1.29 x 1.29in.</td>
<td>1.29 x 1.29in.</td>
<td>1.29 x 1.29in.</td>
</tr>
</tbody>
</table>

### Waterproof, Rugged, and Operator Friendly
- IP65 dustproof/waterproof rating.
- Metal chassis and heavy-duty handle.
- Standard usage temperature range -20°C to +50°C.

### 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.

### 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.