

SOKKIA

PRELIMINARY INFORMATION

SRX**Fully-Tracking Robotic Total Station**

Cutting-Edge Wireless and Cable-Free Robotics

Sokkia's Fully-Tracking SRX featuring **Bluetooth®** Wireless Technology and RED-tech EX

Precise, long-range, reflectorless measurement with patented RED-Tech EX Technology

Sokkia's flagship Total Station has the latest technology on-board to make single-operator measuring quick, easy and accurate. Sokkia's patented RED-tech EX technology offers the highest precision on all ranges of measurements.

Powerful on-board software with Windows CE operating system

The power and familiarity of a Windows-based operating system is on-board the SRX.

Fully wireless and cable-free

Sokkia's SRX has Bluetooth wireless technology for cable-free use, making this single-operator Total Station even more convenient.

Multiple data interfaces including USB and Compact Flash

The SRX offers many data interfaces to make data in the field easy to transport back to the office. Saving data is easier than ever before with the options of USB or compact flash data options.

Enhanced encoder with IACS technology

Groundbreaking new Independent Angle Calibration System (IACS) provides extremely reliable angle measurement with unprecedented stability.

Bluetooth is included on this instrument and in the on-demand remote control unit creating a completely wireless system.




The **Bluetooth** word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Sokkia is under license.



| Model | | SRX1 | SRX2 | SRX3 | SRX5 |
|--|------------------------------|---|-------------------------|---------|------|
| Telescope | | Magnification: 30x, Resolving power: 2.5", Image: Erect, Field of view: 1°30', Minimum focus: 4.3 ft. | | | |
| Angle Accuracy | | 1" | 2" | 3" | 5" |
| Display resolutions (selectable) | | 0.5" / 1" | | 1" / 5" | |
| Automatic dual-axis compensator | | Dual-axis liquid tilt sensor, Working range: ±4' | | | |
| Signal source | | Red laser diode (690nm), Class 3R Laser Product | | | |
| Unit | | meters / feet / US feet, selectable | | | |
| Measuring range | Reflectorless | 0.3 to 500m (1 to 1,640ft.) | | | |
| | With reflective sheet target | RS90N-K: 1.3 to 500m (4.3 to 1,640ft.) | | | |
| | With ATP1 prism | 1.3 to 1,000m (4.3 to 3,280ft.) | | | |
| | With 1 AP prism | 1.3 to 6,000m (4.3 to 19,680ft.) | | | |
| | With 3 AP prisms | 1.3 to 10,000m (4.3 to 32,800ft.) | | | |
| Measuring mode | | Fine (single / repeat), Rapid (single / repeat), Tracking | | | |
| Accuracy | Reflectorless / Sheet | ±(3 + 2ppm x D)mm | | | |
| | With prism | Fine: ±(1.5 + 2ppm x D)mm | Fine: ±(2 + 2ppm x D)mm | | |
| Measuring time | Fine / Rapid / Tracking | 0.9s (initial 1.6s) / 0.6s (initial: 1.3s) / 0.4s (initial 1.3s) | | | |
| Measuring beam size | Reflectorless | 0.4 x 0.3 @ 1,640ft. | | | |
| | With prism / sheet target | φ0.65 @ 330ft. (divergence ±3.5') | | | |
| Prism constant correction | | -99 to +99mm (1mm steps). 0 fixed in reflectorless mode. | | | |
| Rotation speed | H&V | 45° / sec. | | | |
| Rotating time | | Less than 10sec. For 180° rotation (compensator off), setting accuracy: ±5" | | | |
| Fine motion | | Variable speed jogging knobs | | | |
| Auto-tracking Range | With ATP1 prism | 5 to 500m (16.4 to 1,640ft.) | | | |
| | With AP01 prism | 5 to 800m (16.4 to 2,600ft.) | | | |
| Tracking speed | | 14°/sec (5m/sec. at 20m, 25m/sec. at 100m) | | | |
| Auto-pointing Range | With ATP1 prism | 2 to 600m (6.5 to 1,960ft.) | | | |
| | With AP01 prism | 2 to 1,000m (6.5 to 3,280ft.) | | | |
| | With reflective sheet target | RS10-90: 5 to 50m (16.4 to 160ft.) | | | |
| Auto-pointing modes | | Fine mode: less than 7sec., Rapid mode: less than 3sec. optical aiming / digital imaging selectable | | | |
| Operating system | | Windows CE (Ver. 5.0) | | | |
| Memory | | 64MB (more than 20MB available for data), Memory Card drive for Compact Flash card Type II | | | |
| Interface | | Serial and USB | | | |
| Display | | 3.5inch Transflective TFT QVGA color LCD, 324x240 touch screen | | | |
| Keyboard | | Alphanumeric, 32 keys with backlight | | | |
| Dust and water protection | | IP64 | | | |
| Operating temperature | | -20 to +50° C(-4 to +122° F) | | | |
| Instrument height | | 236mm (9.3in.) from tribrach bottom | | | |
| Size with handle and battery | | W 201 x D 202 x H 375 mm (W 8.0 x D 8.0 x H 14.8 in.) | | | |
| Weight | | Approx. 7.7kg (17.0lb.) with RC-TS3 handle, BDC58 internal battery and single panel. | | | |
| Internal Battery | | 2 ea BDC58 Li-ion rechargeable battery | | | |
| External Ni-MH rechargeable battery (optional) | | BDC61: 7.2V, 13Ah | | | |
| Continuous use per battery at 25° C (77° F)*8 | | BDC58: About 2 hours, BDC61: about 7 hours | | | |
| Charging time | | BDC58: About 4 hours, BDC61: about 7 hours | | | |

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