

Sokkia sdr 31 manual Latest Edition

sokkia sdr 31 manual is an essential resource for surveyors, engineers, and construction professionals who utilize this advanced GNSS receiver for precise positioning and data collection. Whether you're a seasoned user or new to the Sokkia SDR 31, having a comprehensive manual ensures optimal performance, efficient troubleshooting, and maximized productivity. This article provides an in-depth guide to understanding and utilizing the Sokkia SDR 31 manual, covering key features, setup procedures, operational tips, and maintenance advice.

Understanding the Sokkia SDR 31

The Sokkia SDR 31 is a high-precision GNSS receiver designed for static and kinematic surveying applications. It supports multi-constellation satellite tracking, including GPS, GLONASS, Galileo, BeiDou, and QZSS, providing reliable positioning data even in challenging environments.

Key Features of the Sokkia SDR 31:

- Multi-frequency, multi-constellation tracking
- High-precision measurement capabilities
- Rugged design for field conditions
- Long-lasting battery life
- Integrated Bluetooth and Wi-Fi connectivity
- Compatibility with Sokkia's surveying software

Having access to the official **sokkia sdr 31 manual** is crucial to mastering these features and ensuring that your device performs optimally throughout its lifespan.

Accessing the Sokkia SDR 31 Manual

The official manual can typically be obtained from the Sokkia website or authorized distributors. It is often provided in PDF format and includes comprehensive sections covering setup, operation, maintenance, troubleshooting, and technical specifications.

Where to Find the Manual:

- Sokkia official website (support/downloads section)
- Authorized Sokkia dealers

- User forums and community groups
- Digital libraries or technical documentation repositories

What the Manual Includes:

- Safety instructions
- Device specifications
- Setup and installation procedures
- Calibration instructions
- Data management and transfer
- Troubleshooting tips
- Maintenance guidelines

Having a digital or printed copy of the manual ensures quick reference during fieldwork or troubleshooting.

Setting Up the Sokkia SDR 31: A Step-by-Step Guide

Proper setup is vital for accurate measurements and device longevity. The manual provides detailed instructions, which typically include the following steps:

1. Unboxing and Inspecting the Device

- Verify all components are present: receiver unit, antenna, cables, batteries, charger, and accessories.
- Check for any physical damage during transit.

2. Installing Batteries

- Insert fully charged batteries into the device.
- Ensure batteries are securely fitted according to the manual instructions.

3. Connecting Antennas and Cables

- Attach the GNSS antenna securely to the receiver.
- Connect any auxiliary cables if necessary, following the manual's guidance.

4. Powering On and Initial Calibration

- Turn on the device following the manual's instructions.
- Perform initial calibration if required, such as antenna height calibration or base station setup.

5. Configuring Settings

- Access the device's settings menu.
- Set coordinate systems, data formats, and communication options (Bluetooth, Wi-Fi).
- Save configurations for future use.

Operational Tips for Using the Sokkia SDR 31

Maximizing the effectiveness of your Sokkia SDR 31 involves understanding operational best practices outlined in the manual.

1. Data Collection Procedures

- Ensure clear line-of-sight to satellites for optimal signal reception.
- Use the manual's recommended survey parameters, such as station spacing and data recording intervals.
- Monitor satellite signals and adjust positioning as needed.

2. Managing Data and File Storage

- Regularly save and back up your survey data according to the manual's instructions.
- Use compatible software for data transfer and processing.
- Organize files systematically to streamline post-processing.

3. Connectivity and Data Transfer

- Use Bluetooth or Wi-Fi as outlined in the manual for real-time data transfer.
- Pair devices following the pairing procedures detailed in the manual.
- Ensure firmware is up to date as per the manual's update instructions.

4. Troubleshooting Common Issues

- Loss of satellite lock: check antenna connections, obstructions, and environmental conditions.
- Communication errors: verify Bluetooth/Wi-Fi settings and pairing status.
- Calibration errors: re-calibrate as per manual instructions.

Maintenance and Care of the Sokkia SDR 31

Proper maintenance extends the lifespan of your GNSS receiver and ensures consistent performance. The manual provides detailed care instructions, including:

- Regular cleaning of the device and antenna using a soft, damp cloth.
- Storing the device in a protective case when not in use.
- Charging batteries using approved chargers and avoiding overcharging.
- Updating firmware and software as recommended.
- Performing periodic calibration checks.

Technical Specifications and Compatibility

Understanding the technical specifications outlined in the manual helps users optimize device operation and ensure compatibility with other equipment.

Typical Specifications:

- Positioning accuracy: Centimeter-level
- Satellite tracking: GPS, GLONASS, Galileo, BeiDou, QZSS
- Power supply: Rechargeable lithium-ion battery
- Communication interfaces: Bluetooth, Wi-Fi, USB
- Operating temperature range: -20°C to +55°C
- Dimensions and weight: As specified in the manual

Compatibility:

- Compatible with Sokkia's suite of surveying software
- Interoperable with third-party GNSS data processing tools

FAQs About the Sokkia SDR 31 Manual

Q1: Is the Sokkia SDR 31 manual available in multiple languages?

A1: Yes, the official manual is often available in several languages to accommodate international users. Check the Sokkia website or your distributor.

Q2: Can I update the firmware without the manual?

A2: Firmware updates are typically guided by instructions in the manual. You can also find update procedures on Sokkia's support portal.

Q3: What should I do if I lose the manual?

A3: Download a digital copy from the Sokkia official website or contact customer support for assistance.

Conclusion

The **sokkia sdr 31 manual** is an indispensable tool for ensuring effective, accurate, and safe operation of your GNSS receiver. By thoroughly understanding and following the instructions provided, users can maximize device performance, streamline workflows, and maintain the longevity of the equipment. Regular consultation of the manual, combined with proper maintenance and adherence to operational best practices, will enhance survey accuracy and productivity in all your projects.

For detailed instructions, troubleshooting, and technical specifications, always refer to the official Sokkia SDR 31 manual and stay updated with firmware and software releases. Proper familiarity with the manual empowers you to harness the full potential of your GNSS receiver in diverse surveying environments.

sokkia sdr 31 manual: A Comprehensive Guide for Precision Surveying

The Sokkia SDR 31 manual is an essential resource for surveying professionals and beginners alike who seek to harness the full potential of this advanced digital level. Known for its high accuracy, ease of use, and robust design, the SDR 31 has become a staple in land surveying, engineering, and construction projects worldwide. This article provides an in-depth exploration of the manual's content, offering insights into operation, maintenance, troubleshooting, and best practices for maximizing the device's capabilities.

Understanding the Sokkia SDR 31: An Overview

The Sokkia SDR 31 is a digital automatic level designed for precise leveling and height measurements over long distances. Its sophisticated features allow for efficient data collection and minimal error, making it suitable for a variety of surveying tasks.

Key Features of the SDR 31

- High Accuracy: Capable of achieving millimeter-level precision, essential for detailed topographical surveys.
- Digital Readout: Provides clear and quick readings, reducing human error associated with traditional bubble levels.
- Automatic Bubble and Compensation System: Ensures stable readings even on uneven terrains.
- Long Battery Life: Supports extended fieldwork sessions with rechargeable batteries.
- Robust Construction: Designed to withstand outdoor conditions, including dust, moisture, and rough handling.

Navigating the Sokkia SDR 31 Manual: An Essential Tool for Users

The Sokkia SDR 31 manual serves as an indispensable guide, detailing every aspect of device operation, maintenance, and troubleshooting. Whether you're a seasoned surveyor or a newcomer, understanding how to interpret and apply the manual's instructions is crucial for optimal device performance.

Content Breakdown of the Manual

The manual is systematically organized into sections, each focusing on a critical component of device usage:

- Introduction and Safety Precautions
- Device Components and Features
- Setup and Calibration Procedures
- Operational Instructions
- Data Storage and Transfer
- Maintenance and Troubleshooting
- Specifications and Accessories
- Warranty and Support Information

This structure ensures users can quickly find relevant information and develop confidence in operating the SDR 31 accurately.

Setting Up the Sokkia SDR 31: Step-by-Step Guidance

Proper setup is fundamental for accurate measurements. The manual provides detailed steps to

ensure correct installation and calibration.

Initial Inspection

- Check for physical damage during transit.
- Ensure all accessories (tripod, batteries, lens covers) are present and in good condition.

Mounting the Device

- Securely attach the SDR 31 to a stable tripod.
- Use the leveling screws to roughly position the instrument.

Leveling the Instrument

- Use the built-in circular bubble to achieve a rough level.
- Employ the electronic auto-level feature for fine adjustment.
- Confirm the bubble is centered, and the electronic level indicates a stable, level position.

Calibration Procedures

- Perform a calibration check as specified in the manual.
- Use calibration rods or standard benchmarks to verify measurement accuracy.
- Adjust the compensator if necessary, following the detailed instructions.

Operating the Sokkia SDR 31: Best Practices

Once set up, proper operation ensures reliable data collection.

Using the Digital Readout

- Power on the device using the designated button.
- Use the menu system to select measurement modes.
- Aim the telescope at the target point, ensuring a clear line of sight.
- Press the measurement button to capture data.
- Review readings on the digital display for immediate verification.

Data Collection Tips

- Use consistent targeting to minimize errors.
- Take multiple readings for each point to improve accuracy.
- Record environmental conditions that may influence measurements, such as temperature or wind.

Data Storage and Transfer

- Save measurements in the device's internal memory.
- Transfer data to a computer or external storage using the specified connection ports.
- Use compatible software provided by Sokkia for data management.

Maintenance and Troubleshooting

Regular maintenance prolongs the lifespan of the SDR 31 and maintains measurement accuracy.

Routine Maintenance

- Clean the lens and optical components with a soft, lint-free cloth.
- Keep the device dry and store it in a protective case when not in use.
- Charge batteries fully before extended fieldwork.
- Check and tighten all screws and fittings periodically.

Troubleshooting Common Issues

- Device Won't Power On: Verify battery installation and charge level. Replace batteries if necessary.
- Inconsistent Readings: Recalibrate the instrument and ensure proper setup.
- Error Messages: Consult the manual's troubleshooting section for specific error codes and recommended actions.
- Physical Damage: Have the device inspected and repaired by authorized service centers.

Accessories and Enhancements

Enhancing the SDR 31's capabilities can be achieved through various accessories:

- Tripods and Mounts: For increased stability and ease of setup.
- Remote Controls: For hands-free operation in challenging positions.
- Data Cables and Storage Devices: For seamless data transfer.
- Protective Cases: To safeguard the device during transport and storage.

Technical Specifications and Compatibility

Understanding the technical specifications is vital for integrating the SDR 31 into existing workflows.

| Specification | Details |

|-----|-----|

| Measurement Range | Up to 30 meters (with standard prisms) |

| Accuracy | ± 1.0 mm + 1 ppm |

| Power Supply | Rechargeable lithium-ion battery |

| Operating Temperature | -20°C to $+50^{\circ}\text{C}$ |

| Weight | Approximately 4 kg |

| Dimensions | 200 mm x 150 mm x 150 mm |

Compatibility with various accessories and software ensures the SDR 31 can adapt to diverse surveying needs.

Final Thoughts: Leveraging the Manual for Optimal Results

The Sokkia SDR 31 manual is more than just a set of instructions; it’s a comprehensive guide that empowers users to operate, maintain, and troubleshoot their instrument effectively. Mastery of the manual’s content translates into precise measurements, increased productivity, and long-term reliability of the device.

For professionals investing in high-precision surveying tools, dedicating time to thoroughly understanding the manual is a worthwhile investment. Whether calibrating the device for the first time, troubleshooting an unexpected error, or exploring advanced features, the manual provides the foundational knowledge necessary for success.

In summary, the Sokkia SDR 31, supported by its detailed manual, stands as a reliable partner in

the pursuit of surveying excellence. Proper use, regular maintenance, and adherence to the guidelines will ensure that this sophisticated instrument continues to deliver accurate, efficient results for years to come.

Question Where can I find the official manual for the Sokkia SDR 31? The official manual for the Sokkia SDR 31 can be downloaded from Sokkia's official website in the support or downloads section. **What are the key features covered in the Sokkia SDR 31 manual?** The manual details features such as data collection procedures, device setup, calibration, troubleshooting, and software integration for the SDR 31. **How do I perform calibration on the Sokkia SDR 31 as per the manual?** The manual provides step-by-step instructions for calibration, including preparing the device, connecting to the software, and verifying accuracy. **What troubleshooting tips are included in the Sokkia SDR 31 manual?** Common issues like connectivity problems, data transfer errors, and device calibration issues are addressed with troubleshooting steps in the manual. **Does the manual include software setup instructions for the Sokkia SDR 31?** Yes, it includes detailed instructions on installing and configuring the associated software for data management and device communication. **How can I contact support if I have questions after reading the Sokkia SDR 31 manual?** Support contact information is typically provided within the manual, or you can visit Sokkia's official website for customer service options.

Related keywords: Sokkia SDR 31, GPS surveying, data collector manual, field data collection, survey instrument guide, SDR 31 user manual, GPS receiver setup, surveying equipment instructions, Sokkia SDR 31 troubleshooting, GIS data collection

Sokkia 610 Manual

sokkia 610 manual is an essential resource for surveyors, engineers, and construction professionals who utilize the Sokkia 610 total station. This comprehensive manual provides detailed instructions on setup, operation, troubleshooting, and maintenance, ensuring users can maximize the device's capabilities for precise measurements and efficient project completion. Whether you are a beginner or an experienced technician, understanding how to navigate the Sokkia 610 manual is crucial for achieving accurate survey results and prolonging the lifespan of your equipment.

Overview of the Sokkia 610 Total Station

The Sokkia 610 is a versatile and high-precision total station designed for a wide range of surveying and construction applications. It combines electronic distance measurement (EDM), angle measurement, and data collection in a compact, ergonomic design. The device's features include a digital display, onboard data storage, and compatibility with various accessories, making it a popular

choice among professionals.

To effectively operate the Sokkia 610, users should familiarize themselves with the contents of the **sokkia 610 manual**. This manual covers everything from initial setup to advanced measurement techniques, ensuring accurate and reliable results.

Key Sections of the Sokkia 610 Manual

The manual is organized into several key sections, each focusing on specific aspects of device operation and maintenance. Understanding these sections will help users troubleshoot issues quickly and perform routine procedures confidently.

1. Device Setup and Initialization

Proper setup is fundamental to obtaining precise measurements. The manual provides step-by-step instructions on:

- Unpacking and inspecting the device for any damage during transit.
- Assembling the tripod and mounting the total station securely.
- Leveling the instrument using built-in bubble levels or electronic leveling functions.
- Powering on the device and initializing the internal system.

Tips for optimal setup:

- Always set up on firm, stable ground.
- Use the built-in leveling bubble or electronic level for accuracy.
- Ensure the device is free from dust and moisture before operation.

2. Basic Operations and Measurement Procedures

This section guides users through routine tasks such as:

- Capturing horizontal and vertical angles.
- Measuring distances using EDM technology.
- Recording measurement data into internal memory or external storage devices.
- Using the keypad and menus for quick access to functions.

Important:

- Follow the manual's instructions for targeting and aiming the instrument accurately.
- Confirm calibration status before starting measurements.

3. Data Management and Transfer

Efficient data handling is critical. The manual explains how to:

- Save measurements within the device's memory.
- Export data via USB, Bluetooth, or other compatible interfaces.
- Use dedicated software for data processing and mapping.
- Manage stored data, delete unnecessary files, and back up survey information.

Note: Always keep firmware and software updated following the manual's recommendations to ensure compatibility and security.

4. Maintenance and Troubleshooting

Regular maintenance extends the lifespan of your Sokkia 610. The manual covers:

- Cleaning procedures for lenses, display screens, and external surfaces.
- Battery care and replacement guidelines.
- Calibration checks and procedures to maintain measurement accuracy.
- Common issues, such as error messages or connectivity problems, and their solutions.

Troubleshooting tips include:

- Resetting the device to factory settings if calibration errors persist.
- Ensuring all connections are secure and free of dirt.
- Consulting the manual's error code table for specific issues.

Using the Sokkia 610 for Precise Surveying

The manual emphasizes best practices for achieving high-precision results with the Sokkia 610. These include:

1. Proper Targeting and Alignment

Ensuring the instrument is accurately aimed at the target is vital. The manual describes:

- Using optical or electronic sights for alignment.
- Applying the "Fine" or "Refine" functions for precise targeting.
- Employing reflective or prism targets depending on measurement distance.

2. Calibration and Adjustment Procedures

Maintaining calibration is critical. The manual provides instructions for:

- Performing daily calibration checks.
- Using calibration tools or software provided by Sokkia.
- Adjusting the device if measurement deviations are detected.

3. Advanced Measurement Techniques

For complex surveying tasks, the manual discusses:

- Station setup with multiple instrument setups.
- Coordinate computation and triangulation.
- Implementing stakeout and layout functions.

Frequently Asked Questions About the Sokkia 610 Manual

Q: Where can I find the official *sokkia 610 manual*?

Official manuals are typically available on Sokkia's website or through authorized dealers. Ensure to download the latest version for accurate instructions.

Q: How do I update the firmware of my Sokkia 610?

The manual includes a section on firmware updates, which involves downloading the latest firmware from Sokkia's official site and following the step-by-step update procedures described in the manual.

Q: What should I do if my device shows an error code?

The manual contains an error code table that explains each code and provides troubleshooting steps. If issues persist, contact Sokkia customer support.

Q: How often should I calibrate my Sokkia 610?

Routine calibration depends on usage frequency and environmental conditions. The manual recommends calibration before critical projects or at regular intervals specified in the maintenance section.

Conclusion: Mastering Your Sokkia 610 with the Manual

The **sokkia 610 manual** is an indispensable guide for ensuring accurate measurements, efficient workflow, and long-term durability of your total station. By thoroughly understanding its sections—from setup and operation to maintenance and troubleshooting—users can optimize the device's performance and achieve professional surveying results.

Always keep the manual accessible during operations, and do not hesitate to consult it whenever questions arise. Proper training and adherence to the manual's guidelines will help you unlock the full potential of your Sokkia 610 total station, making your surveying projects more precise, efficient, and reliable.

Remember: Regularly review the manual updates and maintenance procedures to stay current with best practices and technological advancements related to your Sokkia 610 total station.

Sokkia 610 Manual: The Ultimate Guide to Mastering Your Total Station

When it comes to precision surveying and construction measurement, the Sokkia 610 manual serves as an essential resource for operators seeking to maximize their device's capabilities. Whether you're a seasoned surveyor or a newcomer to total station technology, understanding how to interpret and utilize the manual can greatly enhance your efficiency, accuracy, and confidence on the field. This comprehensive guide aims to break down the key aspects of the Sokkia 610 manual, providing clear explanations, practical tips, and structured insights to help you navigate its content with ease.

Introduction to the Sokkia 610 Total Station

The Sokkia 610 is a highly reliable total station designed for diverse surveying applications. Combining advanced electronic measurement with user-friendly features, it supports tasks such as topographic surveys, construction layout, and land boundary mapping. The manual accompanying this device is your roadmap to harnessing its full potential, from setup to data collection and troubleshooting.

Understanding the Structure of the Sokkia 610 Manual

The manual is typically organized into several key sections, each serving a distinct purpose:

- Introduction and Safety Information

- Overview of the device
- Safety precautions to prevent damage and ensure operator safety

- Device Components and Accessories

- Diagrams of the total station parts
- List of compatible accessories

- Setup and Initialization

- Unpacking instructions
- Tripod setup and leveling procedures
- Powering on and initial calibration

- Basic Operations

- How to perform measurements
- Using the targeting and aiming features
- Data storage and retrieval

- Advanced Features

- Coordinate measurement functions
- Stakeout and point-to-point measurements
- Data transfer methods (USB, Bluetooth, etc.)

- Maintenance and Troubleshooting

- Routine care tips
- Common issues and their solutions
- Appendices
- Technical specifications
- Software update procedures
- Contact information for support

Key Features Explained in the Manual

Precise Measurement Techniques

The manual provides step-by-step guidance on:

- Proper aiming and focusing
- Using the EDM (Electronic Distance Measurement) system
- Ensuring measurement accuracy through calibration

Data Management

Learn how to:

- Store measurement data correctly
- Export data to external devices
- Use internal memory features effectively

Device Calibration & Maintenance

Regular calibration is critical for maintaining accuracy. The manual details:

- How to perform calibration checks
- When and how to send the device for professional calibration
- Cleaning and maintenance routines

Step-by-Step Guide to Setting Up Your Sokkia 610

- Unpacking and Inspection

- Carefully remove the total station and accessories
- Verify all components are present as per the packing list
- Check for any damage during transit

- Tripod and Mounting

- Extend tripod legs evenly
- Attach the total station securely to the tripod mount
- Ensure the device is stable and level

- Leveling the Instrument

- Use the built-in bubble level or electronic leveling feature
- Adjust tripod legs to position the instrument approximately
- Fine-tune leveling screws to achieve precise horizontal level

- Powering On and Initialization

- Insert batteries or connect power supply
- Turn on the device using the power button
- Follow on-screen prompts for initial setup, including date, time, and language preferences

Operating the Sokkia 610: Basic Measurement Procedures

A. Targeting and Aiming

- Use the telescope for precise aiming
- Engage the electronic or manual targeting features
- Confirm the target alignment using crosshairs or laser aiming if available

B. Taking Measurements

- Focus on the target object
- Press the measurement button
- Wait for the device to record the measurement and display the data

C. Recording and Saving Data

- Save measurements to internal memory
- Assign point names or codes for easy identification
- Review stored data via the menu options

Advanced Functionalities: Enhancing Your Surveying Workflow

Coordinate Measurement and Stakeout

- Input known coordinate points from a database
- Use the device's stakeout mode to locate points in the field
- Confirm positions with real-time feedback

Data Transfer and Integration

- Connect to a computer or external device via USB or Bluetooth
- Use dedicated software to import/export data
- Update device firmware or software as recommended in the manual

Using Software Features

- Programming measurement sequences
- Automating repetitive tasks
- Generating reports directly from the device

Maintenance, Troubleshooting, and Best Practices

Routine Maintenance

- Keep lenses and sensors clean using soft cloths
- Regularly check battery health

- Store the device in a protective case when not in use

Troubleshooting Common Issues

- Device not powering on: Check battery installation and charge levels
- Inaccurate measurements: Perform calibration and leveling checks
- Communication errors: Verify connection settings and cable integrity

When to Seek Professional Service

- Persistent calibration errors
- Hardware malfunctions beyond simple fixes
- Software updates requiring technical support

Tips for Maximizing the Use of Your Sokkia 610

- Always familiarize yourself with the latest manual updates or firmware releases
- Perform routine calibration before each day's work
- Use quality tripods and stable mounting surfaces
- Practice targeting and measurement techniques regularly
- Maintain detailed logs of calibration and maintenance activities

Conclusion: Unlocking the Full Potential of Your Sokkia 610

Mastering the Sokkia 610 manual is crucial for ensuring accurate, efficient, and reliable surveying operations. By understanding each section—from setup to advanced features—you can significantly improve your workflow and data quality. Remember that regular maintenance, proper calibration, and adherence to safety protocols are key to extending your device's lifespan and performance. With this guide, you're well-equipped to navigate the manual confidently and harness the full capabilities of your Sokkia 610 total station for all your surveying needs.

Question Where can I find the official Sokkia 610 manual? You can download the official Sokkia 610 manual from the Sokkia website's support or downloads section or contact authorized Sokkia distributors for a copy. What are the key features covered in the Sokkia 610 manual? The manual details features such as setup procedures, calibration, data collection, troubleshooting, and maintenance instructions for the Sokkia 610 total station. How do I perform calibration on the Sokkia 610 using the manual? The manual provides step-by-step instructions on calibrating the Sokkia 610, including leveling procedures, electronic calibration, and ensuring measurement accuracy. Can I find

troubleshooting tips for common issues in the Sokkia 610 manual? Yes, the manual includes troubleshooting sections that address common problems like communication errors, incorrect measurements, and device errors with solutions. What maintenance routines are recommended in the Sokkia 610 manual? The manual suggests regular cleaning, battery checks, calibration verification, and software updates to maintain optimal device performance. Is there a section in the Sokkia 610 manual for software updates and data management? Yes, it provides guidance on updating firmware/software, transferring data to computers, and managing stored measurements. How do I reset the Sokkia 610 to factory settings according to the manual? The manual details the reset process, typically involving menu navigation and confirmation steps to restore default factory settings. Are there safety precautions in the Sokkia 610 manual I should be aware of? Yes, the manual emphasizes safety precautions such as proper handling, avoiding exposure to extreme conditions, and electrical safety guidelines.

Related keywords: Sokkia 610 manual, Sokkia 610 user guide, Sokkia 610 instruction manual, Sokkia 610 datasheet, Sokkia 610 specifications, Sokkia 610 troubleshooting, Sokkia 610 calibration, Sokkia 610 parts list, Sokkia 610 maintenance, Sokkia 610 software

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