

SatLink WS-6933

Satlink WS-6933 DVB-S2 Digital Satellite Finder Meter User Manual

Model: WS-6933

1. INTRODUCTION

This manual provides comprehensive instructions for the proper use and maintenance of your Satlink WS-6933 DVB-S2 Digital Satellite Finder Meter. This device is designed to assist in the accurate alignment of satellite dishes by providing real-time signal strength and quality measurements for DVB-S and DVB-S2 signals. Please read this manual thoroughly before operating the device to ensure optimal performance and safety.

2. SAFETY INFORMATION

- Do not expose the device to rain, moisture, or extreme temperatures.
- Avoid dropping the device or subjecting it to severe impact.
- Use only the specified charger for the device. Incorrect chargers may damage the battery or the unit.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Ensure all cable connections are secure before powering on the device.
- When working on roofs or elevated structures, always follow proper safety procedures to prevent falls.

3. PACKAGE CONTENTS

Please check the package for the following items:

- Satlink WS-6933 Digital Satellite Finder Meter
- Power Adapter/Charger
- F-type Coaxial Cable (short)
- User Manual (this document)

If any items are missing or damaged, please contact your retailer.

4. PRODUCT OVERVIEW

The Satlink WS-6933 is a compact and efficient tool for satellite dish installation. It features a 2.1-inch LCD screen for displaying critical signal parameters and an intuitive button layout for easy navigation.

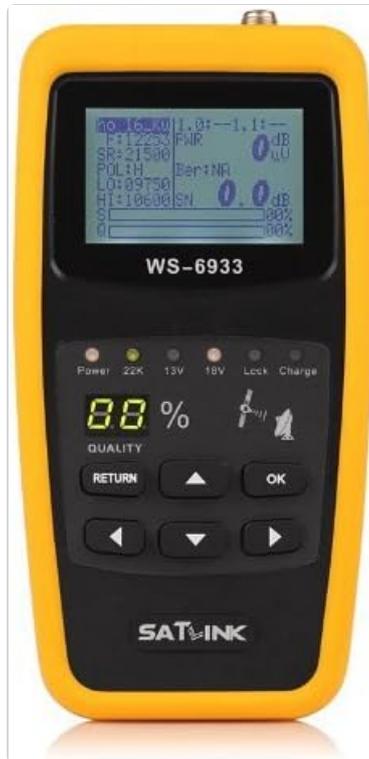


Figure 1: Front view of the Satlink WS-6933 Digital Satellite Finder Meter. The device has a yellow casing and a black front panel. It features a 2.1-inch LCD screen displaying signal information such as frequency, symbol rate, polarization, LO, HI, signal strength (S), and quality (Q). Below the screen are LED indicators for Power, 22K, 13V, 18V, Lock, and Charge. A large digital display shows 'QUALITY' percentage, accompanied by 'RETURN' and 'OK' buttons, and directional arrow buttons for navigation. The 'SATLINK' logo is visible at the bottom.

Key Features:

- 2.1 Inch LCD Screen Display
- F-Type Connector for satellite input
- Input Frequency Range: 950~2150MHz
- Measurement Types: Signal Strength, Quality, Bit Error Rate (BER), Power (PWR)
- Supports DVB-S and DVB-S2 signals
- Built-in battery for portable use

5. SETUP

5.1 Charging the Device

Before first use, fully charge the device using the provided power adapter. Connect the adapter to the charging port on the meter and plug it into a standard electrical outlet. The "Charge" LED indicator will illuminate during charging and turn off when the battery is full.

5.2 Initial Connections

1. **Connect to LNB:** Connect the coaxial cable from your satellite dish's LNB (Low Noise Block) to the "LNB IN" port on the Satlink WS-6933.
2. **Connect to Receiver (Optional):** If you are connecting the meter in-line with a satellite receiver, connect a short coaxial cable from the "TO REC" port on the meter to the satellite input of your receiver. For direct dish alignment, this connection is not always necessary.
3. **Power On:** Press and hold the power button to turn on the device. The LCD screen will light up.

5.3 Verifying Transponder Data

The device comes pre-programmed with a list of satellites and transponders. However, transponder frequencies and symbol rates can change. It is crucial to verify and, if necessary, edit the transponder information for the specific satellite you intend to locate. Refer to reliable online sources or a working satellite system for current transponder data for your region.

6. OPERATING INSTRUCTIONS

6.1 Navigating the Menu

Use the directional arrow buttons (▲, ▼, ◀, ▶) to navigate through menu options. Press the **OK** button to confirm a selection and the **RETURN** button to go back to the previous screen.

6.2 Selecting a Satellite

1. From the main menu, select "Satellite List" or a similar option.
2. Use the arrow buttons to highlight the desired satellite (e.g., AMC-21, Galaxy 19).
3. Press **OK** to select.

6.3 Adjusting Transponder Settings

After selecting a satellite, you may need to adjust its transponder settings. Navigate to the "Transponder Edit" or "TP List" section. Here you can modify parameters such as:

- **Frequency (F):** The transponder's downlink frequency.
- **Symbol Rate (SR):** The rate at which symbols are transmitted.
- **Polarization (POL):** Horizontal (H) or Vertical (V).
- **LNB Frequency (LO/HI):** Ensure these match your LNB's specifications.

Always save changes after editing transponder data.

6.4 Satellite Alignment

Once the correct satellite and transponder are selected:

1. Point your satellite dish roughly towards the desired satellite's position.
2. Observe the signal strength (S) and quality (Q) readings on the LCD screen. The meter may also provide an audible tone that increases in pitch with signal quality.
3. Slowly adjust the azimuth (horizontal) and elevation (vertical) of the dish, making small movements.
4. Fine-tune the LNB skew (rotation) for maximum signal quality.
5. Aim for the highest possible "Quality" percentage and signal-to-noise ratio (SNR) if displayed. The "Lock" LED will illuminate when a stable signal is acquired.
6. Once optimal signal is achieved, securely tighten all dish mounting bolts.

6.5 Interpreting Display Readings

- **S (Signal Strength):** Indicates the raw power of the received signal. A higher value is generally better, but high strength alone does not guarantee a usable signal.
- **Q (Signal Quality):** Represents the integrity of the signal, crucial for clear reception. This is the most important parameter for dish alignment.
- **BER (Bit Error Rate):** Shows the rate of errors in the received data. Lower BER values indicate better signal quality.
- **PWR (Power):** Displays the signal power in dBm or dBuV.
- **SNR (Signal-to-Noise Ratio):** A higher SNR indicates a cleaner signal relative to background noise, which is vital for DVB-S2 signals.

6.6 Built-in Flashlight

The device may include a built-in flashlight feature, useful for working in low-light conditions. Consult the on-screen menu or specific button functions for activation.

7. MAINTENANCE

7.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use liquid cleaners or solvents, as these can damage the casing or internal components.

7.2 Battery Care

- Charge the battery regularly, even if the device is not in frequent use, to maintain battery health.
- Avoid fully discharging the battery frequently.
- Store the device in a cool, dry place when not in use.

7.3 Software Updates

Periodically check the manufacturer's website for any available firmware updates. Updates can improve performance, add features, or fix bugs. Follow the instructions provided with the update package carefully.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No signal detected.	Incorrect satellite selected. Incorrect transponder data. Loose cable connections. LNB fault. Dish not aimed correctly.	Verify the selected satellite matches your target. Update transponder frequency and symbol rate. Check all coaxial cable connections. Test with a known good LNB. Adjust dish azimuth and elevation slowly.

Problem	Possible Cause	Solution
Low signal quality despite high strength.	Interference. Incorrect LNB skew. Dish slightly misaligned.	Check for obstructions or nearby electronic devices. Adjust LNB rotation for optimal quality. Fine-tune dish alignment.
Device does not power on.	Battery discharged. Faulty power adapter.	Charge the device fully. Try a different compatible power adapter if available.

9. SPECIFICATIONS

- **Model:** WS-6933
- **Display:** 2.1 Inch LCD Screen
- **Connector Type:** F Type
- **Input Frequency:** 950~2150MHz
- **Measurement Parameters:** Signal Strength, Quality, BER (Bit Error Rate), PWR (Power)
- **Supported Standards:** DVB-S, DVB-S2
- **Dimensions:** Approximately 8.7 x 8.3 x 2.5 inches (Package Dimensions)
- **Weight:** Approximately 2 pounds (Item Weight)
- **Power Supply:** Internal rechargeable battery, external power adapter

10. WARRANTY INFORMATION

Specific warranty terms and conditions for the Satlink WS-6933 are typically provided by the retailer or manufacturer at the time of purchase. Please refer to your purchase documentation or contact your seller for detailed warranty information. Keep your proof of purchase for any warranty claims.

11. SUPPORT INFORMATION

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your Satlink WS-6933, please contact the retailer from whom you purchased the device. You may also visit the official Satlink website (if available) for additional resources or contact information.