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## SatLink ST-5150

# ST-5150 DVB-S2 / C / T2 Combo Satellite TV Finder Meter User Manual

Comprehensive guide for the SatLink ST-5150, a versatile handheld meter for digital Satellite, Antenna, and Cable TV signal installation and verification.

## 1. INTRODUCTION

Welcome to the user manual for your SatLink ST-5150 DVB-S2/C/T2 Combo Satellite TV Finder Meter. This device is designed to assist professionals and enthusiasts in the installation and verification of digital television services, including satellite, terrestrial (antenna), and cable signals. Its compact size, lightweight design, intuitive interface, and extensive features make it an essential tool for accurate signal measurement and setup.

Please read this manual thoroughly before operating the device to ensure proper usage and to maximize its capabilities. Keep this manual for future reference.

## 2. PRODUCT OVERVIEW

The SatLink ST-5150 is a highly compliant handheld meter supporting DVB-S/S2, DVB-T/T2, and DVB-C standards, along with MPEG-2/4 AVC and H.265 (8 Bit)/HEVC hardware encoding. It features a 4.3-inch High Definition TFT LCD screen for clear display of signal parameters.

- **Multi-Standard Support:** Fully compliant with DVB-S/S2/T/T2/C for comprehensive signal reception.
- **Advanced Decoding:** Supports MPEG2, MPEG4, H.264/MPEG4 AVC, and H.265/HEVC hardware encoding.
- **Digital Signal Measurement:** Provides precise digital readings for signal strength and quality.
- **Scanning Capabilities:** Features both Auto Scan and Manual Scan options for channel discovery.
- **Signal Alarms:** Equipped with sound and light alarms to indicate successful signal acquisition.
- **Angle Calculation:** Automatically calculates the Angle of AZ (Azimuth) and EL (Elevation) for satellite dish alignment.
- **DiSEqC Support:** Compatible with DiSEqC 1.0/1.1/1.2, Unicable, and 0/22kHz Tone.
- **Integrated Speaker:** Allows for audio monitoring of channels.
- **Versatile Connectivity:** Supports both AV out and AV in, as well as HD-MI out for external display.
- **Power and Portability:** Powered by a 7.4V/2600mAh Li-Ion Battery, offering long operational hours. Software upgrades

are possible via the USB port.

## Product Views



Front view of the ST-5150 in its red protective casing, showing the main menu interface with various function icons.



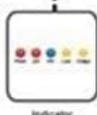
Front view of the ST-5150 in a black casing, displaying the main menu with options for DVB-S2, DVB-T2, DVB-C, and more.



Close-up of the ST-5150 screen showing the "Satellite Find Setup" menu, with options for LNB Type, Frequency, Symbol Rate, and DiSEqC Mode.



Rear view of the ST-5150, displaying the product label with input specifications and the battery compartment cover.



Indicator



Key Button

- 4.3 Inch High Definition TFT LCD Screen
- Fully DVB-S/S2/T/T2/C compliant
- MPEG2, MPEG4, H.264/MPEG4 AVC, H.265/HEVC hardware decoding
- Digital meter for signal strength and quality
- Supports Auto Scan and Manual Scan
- Sound and Light Alarm for Locking Signal
- Auto Calculate Angle of AZ ,EL

- Supports DISEQC 1.0/1.1/1.2, Unicable, 0/22kHz Tone
- Speaker Integrated
- Support both AV out and AV in
- Support both HDMI out
- LNB short protect
- 7.4V/2600mAh Li - Ion Battery Included
- Software upgrade via USB port
- Easy to carry



Diagram highlighting the various features and input/output ports of the ST-5150, including USB, AV In/Out, HDMI, and DC power.

### 3. SETUP

Before using your ST-5150 meter, ensure it is adequately charged and all necessary accessories are available.

#### 3.1 Unboxing and Initial Inspection

Upon receiving your SatLink ST-5150, carefully open the packaging and inspect all contents for any signs of damage. The package should contain the following items:

- ST-5150 Satellite Finder Meter
- User's Manual
- Power Adaptor (Charger)
- AV Cable
- USB Cable

- BNC Adapter

Your browser does not support the video tag.

Official unboxing video for the SatLink ST-5150 DVB-S2/C/T2 Combo Satellite TV Finder Meter, demonstrating the contents of the package and initial handling.

### 3.2 Charging the Battery

The ST-5150 comes with a built-in 7.4V/2600mAh Li-Ion battery. For optimal performance and battery life, fully charge the device before its first use.

1. Connect the provided power adapter to the DC 12V input port on the side of the meter.
2. Plug the power adapter into a standard electrical outlet (100-240VAC 50/60Hz).
3. The "Charge" indicator light on the front panel will illuminate, indicating that the device is charging.
4. Once fully charged, the indicator light may change color or turn off (refer to the device's specific charging indicator behavior).

*Note:* Avoid overcharging the battery for extended periods. Disconnect the charger once the battery is full.

### 3.3 Connecting to Signal Source

The ST-5150 supports DVB-S2/S (Satellite), DVB-T/T2 (Terrestrial), and DVB-C (Cable) signals. Use the appropriate F-type connector for your signal source.

- **For Satellite (DVB-S/S2):** Connect the LNB cable from your satellite dish to the "LNB IN" F-type connector on the meter.
- **For Terrestrial (DVB-T/T2) or Cable (DVB-C):** Connect the antenna or cable TV signal cable to the "ANT IN" F-type connector.

Ensure all connections are secure to prevent signal loss or interference.

## 4. OPERATING INSTRUCTIONS

This section details the basic operation of your ST-5150 meter for signal acquisition and analysis.

### 4.1 Powering On/Off

Press and hold the **Power** button located on the front panel to turn the device on or off. The LCD screen will illuminate upon startup.

### 4.2 Navigating the Menu

Use the directional **Arrow** buttons (*Up, Down, Left, Right*) to navigate through menu options. Press the **OK** button to confirm a selection or enter a submenu. The **MENU** button returns to the previous menu or the main menu, and **EXIT** button exits the current screen.

### 4.3 Satellite Signal Finding (DVB-S/S2)

1. From the main menu, select the **DVB-S2** option.
2. Choose **Satellite Find Setup**.
3. Select the desired satellite from the list or add a new one.
4. Configure parameters such as LNB Type, LNB Frequency, Transponder, Frequency, Symbol Rate, and Polarization.
5. Adjust DiSEqC settings (1.0/1.1/1.2, Unicable) and 0/22kHz Tone as required for your setup.
6. Observe the signal strength and quality bars on the screen. Adjust your satellite dish until optimal signal is achieved. The

meter will provide a sound and light alarm when a strong signal is detected.

7. Use the **Angle Calc...** function to assist in determining the correct Azimuth and Elevation angles for your location.

#### 4.4 Terrestrial/Cable Signal Finding (DVB-T/T2, DVB-C)

1. From the main menu, select **DVB-T2** for terrestrial or **DVB-C** for cable.
2. Enter the appropriate frequency and bandwidth settings for your region or cable provider.
3. Perform an **Auto Scan** or **Manual Scan** to find available channels.
4. Monitor the signal strength and quality indicators. Adjust your antenna or cable connection for best results.

#### 4.5 Media Playback and Other Functions

- **Multimedia:** The meter supports playback of various media files (WMA, MP3, MP4, AVI, JPG, BMP, IMG) via the USB port. Connect a USB drive with your media files and navigate to the "Multimedia" section.
- **System Settings:** Access "System Set..." to configure language, time, display settings, and other system preferences.
- **AV Out/In & HDMI Out:** Use the AV cables or an HDMI cable to connect the meter to an external display (TV, monitor) for larger viewing or to input video signals.
- **Software Upgrade:** The device firmware can be updated via the USB port. Refer to the manufacturer's website for the latest software and instructions.

## 5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ST-5150 meter.

- **Cleaning:** Use a soft, dry cloth to clean the device. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the ports or openings. Do not use abrasive cleaners or solvents.
- **Battery Care:**
  - Avoid completely draining the battery frequently.
  - If storing the device for an extended period, charge the battery to about 50% and store in a cool, dry place. Recharge every few months to prevent deep discharge.
  - Use only the original power adapter provided with the device.
- **Storage:** Store the meter in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity. Keep it in its original packaging or a protective case when not in use to prevent physical damage.
- **LNB Short Protect:** The device features LNB short protection. If an LNB short circuit is detected, the meter will automatically cut off power to the LNB to prevent damage. Address the short circuit before resuming operation.

## 6. TROUBLESHOOTING

If you encounter issues with your ST-5150, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted or faulty.	Connect the power adapter and charge the device. If it still doesn't power on, contact support.
No signal detected.	Incorrect cable connection, wrong settings, LNB/antenna issue, or no signal at source.	Check all cable connections. Verify that the correct satellite/transponder/frequency/LNB type settings are selected. Ensure your LNB or antenna is functioning correctly.
Signal strength is low.	Dish/antenna misalignment, cable loss, or weak signal from source.	Carefully adjust the satellite dish or terrestrial antenna for optimal alignment. Check cables for damage or loose connections. Consider a larger dish/antenna or signal amplifier if necessary.
"LNB Short" error message.	Short circuit in the LNB cable or LNB itself.	Disconnect the LNB cable and check for any exposed wires or faulty connectors. Test the LNB if possible. Replace faulty components.
Screen frozen or unresponsive.	Software glitch.	Perform a soft reset by holding the power button until the device turns off, then restart. If the issue persists, consider a firmware update.

For issues not listed here, or if the suggested solutions do not resolve the problem, please contact customer support.

## 7. SPECIFICATIONS

Detailed technical specifications for the SatLink ST-5150 meter.

Feature	Detail
<b>Transmission Standards</b>	DVB-S2/S, DVB-T/T2, DVB-C / MPEG4 AVC, H.265 (8 Bit) / HEVC
<b>Input/Demodulation Connector Type</b>	F Type
<b>Input Frequency</b>	950 to 2150 MHz (Satellite)
<b>Signal Input Level</b>	-65 to -25 dBm
<b>Band Switch Control</b>	22KHz
<b>LNB Supply</b>	13V/18V, I <sub>max</sub> 400mA
<b>Demodulation Type</b>	QPSK, 8PSK, 16APSK (DVB-S2); 16QAM, 64QAM, 256QAM (DVB-C/T2)
<b>Symbol Rate</b>	2<Rs<45MBaud (SCPC/MCPC)
<b>Display</b>	4.3 Inch High Definition TFT LCD Screen
<b>Resolution</b>	480(RGB) x 272
<b>Battery</b>	7.4V/2600mAh Li-Ion Battery (included)

Feature	Detail
Power Adapter Output	DC12V/1.2A
Power Consumption	Max. 10W
Connectivity	USB (for software upgrade and media playback), AV In/Out, HDMI Out
Dimensions	Approx. 4.72 x 6.69 x 1.57 inches (120 x 170 x 40 mm)
Weight	Approx. 2.2 pounds (1000 grams)

## 8. WARRANTY AND SUPPORT

SatLink products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included in your package or contact your retailer for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or inquiries regarding your ST-5150 meter, please contact the seller or manufacturer directly. Have your product model number (ST-5150) and purchase information ready when seeking support.

*Note:* Unauthorized repairs or modifications may void your warranty.