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## SZBOX ST-5155

# ST-5155 Satellite Signal Meter User Manual

Comprehensive Guide for Installation, Operation, and Maintenance

## 1. INTRODUCTION

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The SZBOX ST-5155 is a versatile and portable signal meter designed for the installation and verification of digital satellite, terrestrial, and cable television signals. This device supports DVB-S/S2/S2X, DVB-T/T2, and DVB-C standards, featuring H.264/H.265 (10-bit) decoding. It is an essential tool for professionals and enthusiasts alike, providing real-time signal analysis and display.

Key features include a 4.3-inch LCD screen, automatic AZ/EL angle calculation, loop search, LNB short-circuit protection, and a built-in rechargeable battery for extended use. This manual provides detailed instructions to help you effectively use your ST-5155 signal meter.

## 2. PRODUCT OVERVIEW

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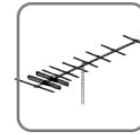
**Figure 2.1:** Front view of the ST-5155 Satellite Signal Meter, showing the 4.3-inch LCD screen, numeric keypad, navigation buttons, and function keys.

# ST-5155 Satfinder

DVB-S2X/S2/S

DVB-T2/T

DVB-C



DVB-T/T2/C



DVB-S/S2



Figure 2.2: Side view illustrating the various ports and connections of the ST-5155, including LNB IN, ANT IN, HDMI OUT, AV IN/OUT, USB port, DC 12V input/output, and a built-in torch.



Figure 2.3: The ST-5155 device shown with its standard accessories, including the power adapter, AV cables, USB cable, and carrying strap.

## 3. SETUP AND FIRST USE

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### 3.1 Charging the Device

Before first use, ensure the ST-5155 is fully charged. Connect the provided 12V power adapter to the DC IN port on the device and plug it into a power outlet. The charging indicator will illuminate. A full charge typically takes approximately 3-4 hours and provides about 5 hours of operation.

### 3.2 Initial Power On

Press and hold the **POWER** button located on the front panel to turn on the device. The 4.3-inch LCD screen will display the boot-up sequence.

### 3.3 Language and Regional Settings

Upon first power-on, you may be prompted to select your preferred language and region. Navigate using the arrow keys and confirm with the **OK** button. These settings can be adjusted later in the System Settings menu.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Satellite Signal Measurement (DVB-S/S2/S2X)

1. Connect your LNB cable from the satellite dish to the **LNB IN** port on the ST-5155. The device provides LNB power (13V/18V, IMax 350mA) and short-circuit protection.
2. Press the **SAT** button to enter the Satellite Measurement mode.

3. Select the desired satellite from the pre-stored list or add a new one. Use the arrow keys to navigate and **OK** to select.
4. Adjust LNB Frequency, Transponder, Symbol Rate, and Polarization as needed.
5. Align your satellite dish while observing the signal strength and quality indicators on the screen. The device supports automatic AZ/EL angle calculation to assist with alignment.
6. Once a signal is locked, the device will emit an audible tone (Dolby AC3 supported) and display real-time video (if available) and channel information.
7. Use the **SCAN** button to perform a channel scan (Auto, Blind, or Manual).

## 4.2 Terrestrial Signal Measurement (DVB-T/T2)

1. Connect your terrestrial antenna cable to the **ANT IN** port. The device provides ANT power (5V, 12V).
2. Press the **SYS** button and select DVB-T/T2 mode.
3. Select the appropriate channel or frequency range.
4. Adjust your antenna for optimal signal strength and quality.
5. Perform a channel scan to find available terrestrial channels.

## 4.3 Cable Signal Measurement (DVB-C)

1. Connect your cable TV signal to the **ANT IN** port.
2. Press the **SYS** button and select DVB-C mode.
3. Enter the required parameters such as frequency, symbol rate, and QAM modulation.
4. Monitor the signal quality and strength.
5. Perform a channel scan to detect available cable channels.

## 4.4 Media Playback and System Functions

- **HDMI/AV Output:** Connect an HDMI cable to the **HDMI OUT** port or AV cables to the **AV OUT** port to display the signal on an external monitor or TV.
- **USB Functions:** The USB 2.0 port can be used for software upgrades and media playback (e.g., video, audio, images) from a USB drive.
- **Torch Function:** Activate the built-in LED torch for illumination in dark environments.
- **System Settings:** Access the **MENU** and navigate to "System Settings" to adjust display, audio, time, and other device parameters.

# 5. MAINTENANCE

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## 5.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use liquid cleaners or abrasive materials, as they may damage the screen or casing. Ensure all ports are free of dust and debris.

## 5.2 Battery Care

The ST-5155 uses a built-in 7.4V/2600mAh Lithium-ion battery. To prolong battery life:

- Avoid fully discharging the battery frequently.
- Store the device in a cool, dry place if not used for extended periods, with the battery charged to about 50%.

- Use only the original charger provided with the device.

## 5.3 Software Updates

Software updates may be released to improve performance or add new features. Check the manufacturer's official website (if available) for the latest firmware. Updates are typically performed via the USB port. Follow the specific instructions provided with the update file carefully.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted or faulty.	Connect to power adapter and charge. If problem persists, contact support.
No signal detected.	Incorrect cable connection, wrong satellite/transponder settings, dish/antenna misalignment.	Check cable connections. Verify satellite/transponder parameters. Re-align dish/antenna using signal strength indicators.
Poor signal quality/pixelation.	Weak signal, interference, incorrect LNB/antenna settings.	Fine-tune dish/antenna alignment. Check for obstructions. Verify LNB/antenna settings.
Screen frozen or unresponsive.	Software glitch.	Perform a soft reset by holding the power button until the device turns off, then restart. If persistent, consider a firmware update.

## 7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	ST-5155
Brand	SZBOX
Display	4.3-inch HD LCD
Video Decoding	MPEG-2/4 H.264/H.265 (10-bit)
Transmission Standards	DVB-S2X/S/S2, DVB-T2/T, DVB-C
Satellite Input Connector	F-FEMALE Type
Satellite Input Frequency	950 to 2150 MHz
Satellite Signal Input Level	-80 ~ -10 dBm
LNB Supply	13V/18V, IMax 350mA
DVB-T2/T Input Frequency	48 to 862 MHz
DVB-T2/T Bandwidth	5MHz, 6MHz, 7MHz, 8MHz

Feature	Specification
ANT Supply	5V, 12V( $\pm$ 5%) I <sub>max</sub> 200mA
DVB-C Input Frequency	48 to 862 MHz
Battery	7.4V/2600mAh Lithium-ion (Rechargeable)
Operating Time	Approx. 5 hours
Connectivity	HDMI Out, AV In/Out, USB 2.0
Special Features	Unicable/Scr/Dcss support, DiSEqC 1.0/1.1/1.2, 0/22 kHz Tone, Backlit keys, Built-in torch

## 8. WARRANTY INFORMATION

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Specific warranty terms and conditions for the SZBOX ST-5155 are typically provided at the point of purchase or within the product packaging. Please refer to your purchase receipt or the warranty card included with your device for detailed information regarding warranty duration, coverage, and claims process.

Generally, the manufacturer warrants this product against defects in materials and workmanship under normal use for a specified period from the original date of purchase. This warranty does not cover damage caused by accident, misuse, abuse, unauthorized modification, or improper installation.

## 9. CUSTOMER SUPPORT

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For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact SZBOX customer support. While specific contact details are not provided here, you can typically find support information on the official SZBOX website or through your product retailer.

When contacting support, please have your product model (ST-5155) and purchase information readily available to facilitate a quicker resolution.