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› Graigar Satlink WS-6979 DVB-S2/T2 Combo Digital Satellite Finder User Manual

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Model: WS-6979

1. INTRODUCTION

This manual provides comprehensive instructions for the operation and maintenance of your Graigar Satlink WS-6979 DVB-S2/T2 Combo Digital Satellite Finder. This device is designed to assist in the precise installation and alignment of satellite and terrestrial antennas, featuring a 4.3-inch TFT LCD screen for clear signal analysis.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device to prevent injury or damage.

- **Power Supply:** Use only the provided power adapter. Ensure the voltage matches the device's requirements.
- **Battery Safety:** The device contains a Li-Ion battery. Do not expose to extreme temperatures, puncture, or disassemble. Dispose of batteries according to local regulations.
- **Environmental Conditions:** Avoid exposing the device to rain, moisture, direct sunlight, or extreme temperatures. Operate in a well-ventilated area.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts.
- **Servicing:** Do not attempt to service the device yourself. Refer all servicing to qualified personnel.
- **DVB-T/T2 Note:** DVB-T functionality is not supported in North America. This feature is applicable in regions such as Europe.

3. PRODUCT OVERVIEW

3.1 Features

- 4.3 Inch High Definition TFT LCD Screen
- Fully DVB-S/S2/T/T2, MPEG-2/MPEG4 compliant
- MPEG-2/H.264 Hardware decoding
- Digital meter for signal strength and quality
- Constellation analyzer
- Spectrum analyzer

- Supports scan of Auto, Blind, Manual or NIT
- Sound and Light Alarm for Locking Signal
- Auto Calculate Angle of AZ, EL
- Supports DISEQC 1.0/1.1/1.2, 0/22kHz Tone
- Integrated Speaker
- Support both AV out and AV in
- LNB short protect function
- 7.4V/3000mAh Li-Ion Battery Included
- Software upgrade via USB port

3.2 Package Contents

- 1x Satlink WS-6979 Satellite Meter
- 1x AV Cable
- 1x Power Adapter
- 1x Car Charger Cable
- 1x Silicone Case
- 1x User's Manual (this document)

3.3 Device Layout



Figure 1: Front view of the Satlink WS-6979, showing the 4.3-inch LCD screen and control panel.



Figure 2: Close-up of the control panel, highlighting navigation buttons, numeric keypad, and function keys.



Figure 3: Side view of the device, illustrating the LNB input, USB port, and AV input/output jacks.



Figure 4: Rear view of the device, showing the integrated kickstand for convenient placement during use.

4. SETUP

4.1 Charging the Battery

Before first use, fully charge the internal 7.4V/3000mAh Li-Ion battery. Connect the provided power adapter to the device's charging port and plug it into a wall outlet. The charging indicator light will illuminate. A full charge typically takes several hours.

4.2 Initial Power On

Locate the power switch on the side of the device. Slide the switch to the 'ON' position. The device will boot up and display the main menu on the TFT LCD screen.

4.3 Connecting to LNB/Antenna

For satellite signal finding, connect the LNB cable from your satellite dish to the 'LNB IN' port on the device. For terrestrial signal finding, connect your DVB-T/T2 antenna to the 'ANT IN' port.

5. OPERATING INSTRUCTIONS

5.1 Navigating the Menu

Use the directional arrow keys (Up, Down, Left, Right) to navigate through menu options. Press the 'OK' button to select an option or confirm a setting. The 'MENU' button returns to the previous menu, and 'EXIT' exits the current

function or menu.

5.2 Satellite Signal Finding (DVB-S/S2)

1. From the main menu, select 'DVB-S2' or 'Satellite Finder'.
2. Choose the desired satellite from the pre-programmed list or add a new one.
3. Configure LNB settings (e.g., LNB type, LO frequency, 22KHz tone, DISEQC settings if applicable).
4. Adjust the satellite dish while observing the signal strength and quality meters on the screen. The device will provide a sound and light alarm when a signal is locked.
5. Utilize the 'Spectrum Analyzer' and 'Constellation Analyzer' functions for detailed signal analysis and fine-tuning.

5.3 Terrestrial Signal Finding (DVB-T/T2)

1. From the main menu, select 'DVB-T2' or 'Terrestrial Finder'.
2. Select your region and channel parameters.
3. Adjust the terrestrial antenna while monitoring the signal strength and quality.

5.4 Channel Scan

The device supports various scan modes:

- **Auto Scan:** Automatically searches for all available channels.
- **Blind Scan:** A comprehensive scan that detects all transponders.
- **Manual Scan:** Allows you to input specific frequency, symbol rate, and polarization.
- **NIT Scan:** Scans based on Network Information Table.

5.5 AV In/Out Functionality

The device can be used as an AV monitor. Connect an external video source to the 'AV IN' port. Alternatively, use the 'AV OUT' port to display the device's screen content on an external monitor.

6. MAINTENANCE

6.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use liquid cleaners or solvents, as they may damage the screen or casing.

6.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. If storing the device for an extended period, charge it to approximately 50% and recharge every few months.

6.3 Software Upgrade

Software upgrades can be performed via the USB port. Download the latest firmware from the manufacturer's official website and follow the provided instructions for installation.

7. TROUBLESHOOTING

- **No Power:** Ensure the battery is charged or the power adapter is connected correctly. Check the power switch position.
- **No Signal Detected:** Verify all cable connections (LNB, antenna). Check LNB power settings and DISEQC

configuration. Ensure the correct satellite/transponder is selected.

- **Poor Signal Quality:** Fine-tune antenna alignment. Check for obstructions. Ensure LNB is functioning correctly.
- **Screen Frozen:** Try restarting the device by holding the power button or sliding the power switch off and on.
- **DVB-T/T2 Not Working:** Confirm that DVB-T/T2 is supported in your geographical region. (Note: Not supported in North America).

8. SPECIFICATIONS

Feature	Specification
Standards	DVB-S2/S, DVB-T/T2
Connector Type	F Type
Input Frequency	950 to 2150 MHz (Satellite)
Signal Input Level	-65 to -25 dBm
Band Switch Control	22KHz
LNB Supply	13V/18V, IMax 400mA
Demodulation Type	QPSK, 8PSK, 16APSK
Symbol Rate	2 Msps to 45 Msps
Video Output	CVBS
Audio Output	Stereo Audio L/R output
Video Input	CVBS
Audio Input	Stereo Audio L/R input
Video Decompression	MPEG-2 MP@HL, MPEG-1 Decoding, MPEG-4 ASP@L5 HD resolution, H.264 MP&HP@L4, HW JPEG decoding
Video Format	4:3, 16:9, By Pan & Scan and Letter Box conversion
Adapter Output	DC12V/1.5A
Adapter Input	100-240VAC 50/60Hz
Power Consumption	Max. 10W
Battery	7.4V/3000mAh Li-Ion
Material	Plastic
Color	Black

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Graigar customer service directly. Keep your purchase receipt as proof of purchase.

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