

## SURRYN V8 Finder2

# SURRYN V8 Finder2 Digital Satellite Finder User Manual

Model: V8 Finder2

## 1. INTRODUCTION

The SURRYN V8 Finder2 is a digital satellite finder designed for precise and efficient installation and alignment of satellite dishes. It supports DVB-S, DVB-S2, and DVB-S2X signals, offering a comprehensive solution for satellite signal detection and analysis. This manual provides detailed instructions for the proper use, setup, and maintenance of your device.

### Key Features:

- 3.5-inch HD LCD Color Screen for clear display.
- Full DVB-S/DVB-S2/DVB-S2X, MPEG-2/MPEG4 compliance.
- Digital meter for accurate signal strength and quality readings.
- Supports DISEQC 1.0/1.1/1.2, Unicable, and 0/22kHz Tone.
- Multiple Transponder (TP) detection with Auto, Blind, Manual, or NIT scan options.
- Automatic calculation of Azimuth (AZ) and Elevation (EL) angles.
- Integrated speaker with sound and light alarm for signal locking.
- AV In and AV/HD Out functions.
- PVR option for recording TS files.
- LNB short circuit protection.
- Software upgradeable via USB port.
- Built-in 7.4V/4000mAh Lithium-ion battery for extended operation.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before using the device. Failure to follow these instructions may result in electric shock, fire, or damage to the device.

- **Power Supply:** Use only the provided Type-C charging cable and a compatible charger (Max 20W, PD3.0/QC3.0 quick charge supported). Using an incompatible charger may damage the device or cause a fire.

- **Water and Moisture:** Do not expose the device to rain, moisture, or any liquids. This can cause electric shock or damage.
- **Temperature:** Avoid exposing the device to extreme temperatures (hot or cold). Operate and store the device within recommended temperature ranges.
- **Ventilation:** Ensure proper ventilation around the device during operation and charging. Do not cover ventilation openings.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts.
- **Disassembly:** Do not attempt to disassemble, repair, or modify the device yourself. Refer all servicing to qualified personnel.
- **LNB Connection:** Ensure LNB connections are secure and free from short circuits. The device features LNB short protect functionality.

### 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x V8 Finder2 Digital Satellite Finder Unit
- 1x Type-C Charging Cable
- 1x User Manual (this document)
- 1x Storage Bag (may vary by purchase option)
- 1x Charger (may vary by purchase option)

### 4. PRODUCT OVERVIEW

Familiarize yourself with the various parts and controls of your V8 Finder2 device.





**Figure 4.1:** Front view of the SURRYN V8 Finder2, showing the 3.5-inch LCD screen, menu icons, and control buttons. Key indicators for Power, 22K, 13V/18V, Lock, and Charge are visible below the screen.

Version Difference			Remarks
Rechargeable Battery	3.7V/5000mAh (Green)	<b>7.4V/4000mAh (Black)</b>	
U-Disk Playback	3-3.5 Hours	<b>5.5-6 Hours</b>	
Connect to Sat Signal	≈ 2.2 Hours	<b>≈ 4.5 Hours</b>	Different satellite signal has different payload
Charging (Off State)	≈ 2.5 Hours	<b>≈ 3.2 Hours</b>	20W quick charge adapter data
Charging (On State)	≈ 4 Hours	<b>≈ 5 Hours</b>	If turned on, the time will be longer
Tips: Support PD3.0/QC3.0 quick charge, Max of 20W.			Note to use quick charger beyond 5V2A, or will very slow

Figure 4.2: Side view of the V8 Finder2, highlighting the HD OUT, AV OUT, and AV IN ports for external display and audio/video connections.



Figure 4.3: Detailed view of the V8 Finder2's professional hardware configuration, including the satellite interface, USB port, power socket, and the large capacity 7.4V/4000mAh battery.

### Controls and Indicators:

- **LCD Screen:** 3.5-inch display for menu navigation, signal information, and live video.
- **MENU Button:** Access the main menu.
- **OK Button:** Confirm selections or enter sub-menus.
- **Directional Buttons (Up/Down/Left/Right):** Navigate through menus and adjust settings.
- **EXIT Button:** Return to the previous menu or exit current function.

- **REC Button:** Initiate recording (if PVR function is active).
- **SUBT Button:** Subtitle control.
- **TEXT Button:** Teletext function.
- **AUDIO Button:** Audio track selection.
- **Number Pad (0-9):** Direct input for channels or values.
- **MUTE Button:** Mute audio output.
- **SAT Button:** Satellite list access.
- **INFO Button:** Display program information.
- **TV/R Button:** Switch between TV and Radio modes.
- **SPEC Button:** Access Spectrum analysis.
- **LOOP Button:** Loop function.
- **B.LIGHT Button:** Backlight control.
- **Power Indicator:** Shows device power status.
- **22K Indicator:** Indicates 22kHz tone status.
- **13V/18V Indicator:** Shows LNB voltage output.
- **Lock Indicator:** Illuminates when a signal is locked.
- **Charge Indicator:** Shows charging status.

## 5. SETUP

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### 5.1 Charging the Device

Before initial use, fully charge the V8 Finder2. Use the provided Type-C charging cable and a compatible power adapter.

- Connect the Type-C cable to the charging port on the side of the device.
- Connect the other end of the cable to a USB power adapter (not always included, ensure it supports PD3.0/QC3.0 for fast charging up to 20W).
- The Charge indicator light will illuminate during charging.
- Charging times are approximately 3.2 hours (device off) or 5 hours (device on) for the 7.4V/4000mAh battery.



**Figure 5.1:** Illustration of the V8 Finder2's real-time power display, integrated speaker, 3.5-inch HD LCD screen, and multi-protocol fast charging capabilities. The image also shows the charging port location.

## 5.2 Connecting to the Satellite Dish

To begin satellite signal detection, connect the device to your LNB (Low Noise Block) on the satellite dish.

- Ensure the device is powered off before making connections.
- Connect the coaxial cable from your LNB to the F-type connector on the top of the V8 Finder2.
- If connecting to a TV or monitor, use the HD OUT or AV OUT ports with appropriate cables.



Figure 5.2: Diagram illustrating the connection of the V8 Finder2 to a satellite dish and subsequently to a television for signal display.

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On/Off

- Press and hold the Power button (usually located on the side or top) to turn the device on or off.
- The Power indicator light will show the device's status.

### 6.2 Main Menu Navigation

After powering on, the main menu will appear on the LCD screen. Use the directional buttons and the OK button to navigate.

- **Installation:** For satellite setup, transponder editing, and dish alignment.
- **Spectrum:** Displays real-time signal spectrum analysis.
- **Loop:** For signal loop-through functionality.
- **Calculate:** Automatically calculates Azimuth and Elevation angles based on location.
- **Channel:** Manage TV and Radio channels.
- **Media:** Access media playback functions (if supported).

- **Tools:** Contains utilities like calculator, games, or other diagnostic tools.
- **System:** Device settings, software upgrade, factory reset.

### 6.3 Satellite Signal Detection

1. From the main menu, select **Installation**.
2. Choose your desired satellite from the list. If not present, you may need to add it or edit an existing one.
3. Select a Transponder (TP) frequency. You can use **Auto Scan**, **Blind Scan**, **Manual Scan**, or **NIT Scan** to find TPs.
4. Adjust the satellite dish direction (Azimuth and Elevation) while observing the signal strength and quality bars on the screen.
5. The device will provide a digital reading of signal strength and quality. The integrated speaker will emit an audible tone, and the Lock indicator will illuminate when a signal is successfully locked.
6. Fine-tune the dish for maximum signal quality.

### 6.4 LNB Settings

The V8 Finder2 supports various LNB configurations:

- **13V/18V:** Select the appropriate voltage for your LNB (Vertical/Horizontal polarization). The 13V/18V indicator will show the active voltage.
- **22kHz Tone:** Enable or disable the 22kHz tone for switching between high/low bands on universal LNBs. The 22K indicator will show its status.
- **DISEQC 1.0/1.1/1.2:** Configure for multiple LNBs or motorized dishes.
- **Unicable:** Support for Unicable LNB systems.

### 6.5 AV In/Out and HD Out

- **AV In:** Connect an external video source (e.g., CCTV camera) to the AV IN port to display its feed on the V8 Finder2 screen.
- **AV Out / HD Out:** Connect the V8 Finder2 to an external display (TV, monitor) using the AV OUT (3.5mm jack to RCA) or HD OUT (HDMI) ports to view the signal or menu on a larger screen.

### 6.6 PVR and Softcam Support

- **PVR:** If a USB storage device is connected, you can record TS files (Transport Stream) directly from the satellite signal using the REC button.
- **Softcam:** The device supports Fastest BISS auto roll and PowerVu auto roll for specific encryption systems. Refer to advanced settings for configuration.

## 7. MAINTENANCE

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### 7.1 Cleaning

- Wipe the device with a soft, dry cloth.
- Do not use liquid cleaners, solvents, or abrasive materials.

### 7.2 Software Upgrade

The V8 Finder2's software can be upgraded via its USB port to improve performance or add new features.

- Visit the official website ([www.freesat.cn](http://www.freesat.cn)) to download the latest firmware for your V8 Finder2 model.
- Copy the firmware file to the root directory of a USB flash drive.

- Connect the USB flash drive to the USB port on the V8 Finder2.
- Navigate to the **System** menu, then select **Software Upgrade**.
- Follow the on-screen instructions to complete the upgrade. Do not power off the device during the upgrade process.

### 7.3 Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- Store the device in a cool, dry place if not used for extended periods.

## 8. TROUBLESHOOTING

- **No Power:**
  - Ensure the device is fully charged. Connect the charger and check the Charge indicator.
  - Press and hold the Power button for a few seconds.
- **No Signal / Weak Signal:**
  - Check all cable connections between the LNB and the V8 Finder2. Ensure they are secure.
  - Verify LNB settings (13V/18V, 22kHz Tone) are correct for your LNB type.
  - Re-align the satellite dish carefully, observing the signal strength and quality meters.
  - Check for obstructions between the dish and the satellite.
- **LNB Short Protect Warning:**
  - Disconnect the LNB cable immediately.
  - Check the coaxial cable and LNB for any damage or short circuits.
  - Replace faulty components if necessary before reconnecting.
- **Screen Frozen / Unresponsive:**
  - Try pressing the EXIT button repeatedly.
  - If unresponsive, perform a soft reset by pressing and holding the Power button until the device turns off, then restart.
- **Software Upgrade Failure:**
  - Ensure the firmware file is correct for your model and placed in the root directory of the USB drive.
  - Try a different USB drive.
  - Do not interrupt power during the upgrade.

## 9. SPECIFICATIONS

Feature	Specification
Model	V8 Finder2
Type	Digital Satellite Finder
Connector Type	F Type
LCD Type	3.5-inch TFT Transmissive HD LCD
AV IN/OUT Connector	3.5mm jack
Video Input/Output	CVBS

Feature	Specification
HD Output	Supported
PVR Option	Support recording TS files
LNB Supply	13V/18V, Max 350mA
Softcam Support	Fastest BISS auto roll, PowerVu auto roll
Demodulation Type	DVB-S2 QPSK, DVB-S2 QPSK/8PSK/16APSK/32APSK, DVB-S2X QPSK/8PSK/16APSK/32APSK/64APSK
Input Frequency	950-2150MHz
Input Voltage	DC5V/9V/12V
Battery	Built-in 7.4V/4000mAh Lithium-ion
Charging	Type-C, Max 20W, PD3.0/QC3.0 support
Software Upgrade	Via USB Port (5V)
Item Weight	Approximately 1.76 ounces (device only)
Dimensions	Approximately 1.18 x 0.79 x 0.39 inches (package dimensions, device dimensions may vary)

## 10. WARRANTY AND SUPPORT

SURRYN products are designed for reliability and performance. For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer.

For technical support, software updates, and additional resources, please visit the official product support website:

[www.freesat.cn](http://www.freesat.cn)

Please have your product model (V8 Finder2) and any relevant purchase information ready when contacting support.