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## NVS AMP50

# NVS AMP50 B III UHF 1 Output Pole Amplifier User Manual

Model: AMP50

## 1. INTRODUCTION

Thank you for choosing the NVS AMP50 B III UHF 1 Output Pole Amplifier. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your amplifier. Please read this manual thoroughly before using the product and retain it for future reference.

## 2. SAFETY INFORMATION

### Important Safety Instructions:

- Ensure the power supply (PSUP01, not included) is disconnected before installation or maintenance.
- This device is designed for outdoor pole mounting. Ensure it is securely fastened.
- Protect all connections from moisture. The included rain cover must be used.
- Do not expose the amplifier to extreme temperatures or direct sunlight for prolonged periods without proper shielding.
- Only use a 12V DC power supply as specified. Using an incorrect power supply may damage the device and void the warranty.
- Installation should be performed by a qualified technician if you are unsure about any steps.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- NVS AMP50 B III UHF 1 Output Pole Amplifier
- Rain Cover
- User Manual (this document)

*Note: The PSUP01 12V DC power supply is not included and must be purchased separately.*

## 4. PRODUCT FEATURES

The NVS AMP50 is a vertical audio amplifier designed to boost B III and UHF signals, ensuring optimal reception.

- Vertical audio amplifier with wide-band input (B III + UHF).
- Separate gain adjustments for B III (max. 18 dB) and UHF (max. 30 dB).
- Single signal output with F-connectors.
- Powered by 12V DC from the signal drop line via a PSUP01 power supply (not included).
- Includes a rain cover for outdoor protection.



Figure 4.1: NVS AMP50 B III UHF 1 Output Pole Amplifier. This image shows the compact design of the amplifier, highlighting its F-connectors for signal input and output, and the robust casing designed for outdoor use with a rain cover.

## 5. SETUP AND INSTALLATION

Follow these steps for proper installation of your NVS AMP50 amplifier:

- 1. Mounting:** Securely mount the amplifier to a pole in a suitable outdoor location, preferably close to the antenna. Ensure the mounting is stable and can withstand environmental conditions.
- 2. Antenna Connection:** Connect your B III and UHF antenna cables to the respective input F-connectors on the amplifier. Ensure connections are tight and secure.
- 3. Output Connection:** Connect the amplifier's single output F-connector to your signal drop line, which leads to your television or distribution system.
- 4. Rain Cover:** Place the provided rain cover over the amplifier to protect it from weather elements. Ensure it is properly seated to prevent water ingress.
- 5. Power Supply (PSUP01):** Connect the 12V DC power supply (PSUP01, not included) to the signal drop line. The amplifier receives power through this line. Ensure the power supply is connected indoors and away from moisture.
- 6. Power On:** Once all connections are secure and protected, plug in the PSUP01 power supply.

## 6. OPERATING INSTRUCTIONS

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The NVS AMP50 amplifier is designed for continuous operation once installed.

- **Gain Adjustment:** The amplifier features separate rotary controls for B III and UHF gain adjustment. Use a small screwdriver to carefully adjust the gain for each band to achieve optimal signal strength without over-amplification. Start with the lowest gain setting and gradually increase until desired signal quality is achieved on your television.
- **Signal Monitoring:** Monitor your television's signal strength and quality indicators while adjusting the gain. Over-amplification can lead to signal distortion.
- **Power Indicator:** The PSUP01 power supply typically has an LED indicator to confirm it is receiving power and supplying it to the amplifier.

## 7. MAINTENANCE

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The NVS AMP50 amplifier requires minimal maintenance.

- **Periodic Inspection:** Periodically inspect the amplifier and its connections for any signs of wear, corrosion, or damage, especially after severe weather conditions.
- **Rain Cover:** Ensure the rain cover remains securely in place and is not damaged. Replace if necessary.
- **Cleaning:** If necessary, gently clean the exterior of the amplifier with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the power supply is disconnected before cleaning.
- **Connection Integrity:** Check F-connections for tightness to prevent signal loss or ingress of moisture.

## 8. TROUBLESHOOTING

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If you experience issues with your amplifier, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No signal or poor signal quality	<ul style="list-style-type: none"><li>◦ No power to amplifier</li><li>◦ Loose or corroded connections</li><li>◦ Incorrect gain settings</li><li>◦ Antenna issues</li><li>◦ Faulty PSUP01 power supply</li></ul>	<ul style="list-style-type: none"><li>◦ Check if PSUP01 is plugged in and its indicator light is on.</li><li>◦ Ensure all F-connections are tight and free of corrosion.</li><li>◦ Adjust B III and UHF gain settings carefully.</li><li>◦ Inspect antenna for damage or misalignment.</li><li>◦ Test with a known working PSUP01 power supply.</li></ul>
Signal distortion or pixelation	<ul style="list-style-type: none"><li>◦ Over-amplification (gain too high)</li><li>◦ Interference</li></ul>	<ul style="list-style-type: none"><li>◦ Reduce B III and UHF gain settings.</li><li>◦ Check for nearby sources of electrical interference.</li></ul>
Water ingress in amplifier	<ul style="list-style-type: none"><li>◦ Rain cover improperly installed or damaged</li><li>◦ Loose F-connections</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure rain cover is correctly and securely fitted.</li><li>◦ Tighten all F-connections and consider using weather-sealing tape.</li></ul>

If the problem persists after following these steps, please contact customer support.

## 9. SPECIFICATIONS

Feature	Detail
Manufacturer	NVS
Model Number	AMP50
ASIN	B0972HCQRK
Input Bands	B III, UHF
B III Gain Adjustment	Max. 18 dB
UHF Gain Adjustment	Max. 30 dB
Output Channels	1
Connectors	F-type
Power Supply (Input Voltage)	12V DC (via PSUP01, not included)
Installation Type	Surface Mount (Pole Mount)
Dimensions (Shipping)	18 x 12 x 5 cm
Weight (Shipping)	164 grams

## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official NVS website. Keep your proof of purchase for warranty claims. For further assistance, please contact NVS customer support through their official channels.