

Optex 051009

Optex 051009 Indoor Antenna Amplifier User Manual

Model: 051009

1. PRODUCT OVERVIEW

The Optex 051009 is a shielded 4-way indoor antenna amplifier designed to enhance weak antenna signals and compensate for signal loss over long cable runs. It is compatible with Digital Terrestrial Television (DTT) signals and features separate adjustable amplification for UHF and VHF frequencies. This device allows you to distribute a single antenna signal to up to four televisions or tuners.



Figure 1: Optex 051009 Indoor Antenna Amplifier. This image shows the compact black unit with input and output ports, and adjustment dials.

2. SAFETY INSTRUCTIONS

- Ensure the power supply voltage (230V AC) matches your local electrical standards.
- This device is for indoor use only. Do not expose it to rain, moisture, or extreme temperatures.
- Do not open the amplifier casing. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Keep the amplifier away from heat sources and direct sunlight.
- Disconnect the power plug from the wall outlet before cleaning or if the unit will be unused for an extended period.
- Avoid placing the amplifier in areas with poor ventilation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Optex 051009 Indoor Antenna Amplifier (4 Outputs)

- 1 x Power Cable (integrated or separate, depending on model variant)

4. SETUP

1. **Connect Antenna:** Connect your terrestrial antenna cable to the "INPUT" F-connector port on the amplifier. Ensure the connection is secure.
2. **Connect Televisions/Tuners:** Connect up to four television sets or DTT tuners to the "OUTPUT" F-connector ports (labeled 1 to 4) on the amplifier using coaxial cables.
3. **Power Connection:** Plug the amplifier's power cable into a standard 230V AC wall outlet. The power indicator light (if present) should illuminate.
4. **Initial Gain Adjustment:** Set both the UHF and VHF gain adjustment dials to their minimum positions initially.

5. OPERATING INSTRUCTIONS

The Optex 051009 amplifier features independent gain controls for UHF and VHF frequencies, allowing for fine-tuning of the signal strength.

1. **Turn on Devices:** Power on your television(s) or DTT tuner(s) connected to the amplifier.
2. **Adjust UHF Gain:** Slowly increase the UHF gain dial. Monitor the signal quality on your television. Stop increasing the gain when you achieve a clear, stable picture. Over-amplification can lead to signal distortion.
3. **Adjust VHF Gain:** Similarly, slowly increase the VHF gain dial, monitoring the signal quality for VHF channels. Adjust until optimal reception is achieved without distortion.
4. **Fine-tuning:** If you experience pixelation or signal dropouts, slightly reduce the gain. If the signal is still weak, ensure your antenna is correctly positioned and pointed towards the transmitter.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the ventilation openings are not blocked to prevent overheating.
- **Storage:** If storing the device, keep it in a dry, cool place away from direct sunlight and moisture.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No signal or poor picture quality	<ul style="list-style-type: none"> Loose cable connections Amplifier not powered Incorrect gain settings Antenna not properly positioned Faulty cables 	<ul style="list-style-type: none"> Check all F-connector cables for secure connections. Ensure the amplifier is plugged in and the power indicator is on. Adjust UHF and VHF gain dials slowly to find optimal signal. Verify your antenna's direction and position. Test with different cables if possible.
Signal distortion or over-amplification	<ul style="list-style-type: none"> Gain settings too high 	<ul style="list-style-type: none"> Gradually reduce the UHF and VHF gain settings until distortion disappears and picture quality is clear.

8. SPECIFICATIONS

- **Model:** 051009
- **Type:** Indoor Antenna Amplifier
- **Outputs:** 4
- **UHF Amplification:** 10 to 25 dB (adjustable)
- **VHF Amplification:** 0 to 15 dB (adjustable)
- **Connectors:** F-type
- **Power Supply:** 230V AC
- **Impedance:** 50 Ohms
- **Color:** Black
- **Compatibility:** Digital Terrestrial Television (DTT)

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. You may also visit the official Optex website for further assistance.