



[Manuals.plus](#) /

- › [Definitive Technology](#) /
- › Definitive Technology Subamp 600 120V Amplifier Instruction Manual

## Definitive Technology Subamp 600

# Definitive Technology Subamp 600 120V Amplifier Instruction Manual

Model: Subamp 600 (UCYC)

- [Introduction](#)
- [Safety Information](#)
- [Package Contents](#)
- [Setup](#)
- [Operating](#)
- [Maintenance](#)
- [Troubleshooting](#)
- [Specifications](#)
- [Warranty](#)
- [Support](#)

## 1. INTRODUCTION

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The Definitive Technology Subamp 600 is a high-powered amplifier designed specifically for use with Definitive Technology IWSUB in-wall subwoofers. This amplifier features two discrete high-power amplifier channels within a single housing, making it suitable for driving one or two IWSUBs in various audio setups, including whole-house distributed audio or dedicated home theater systems. It is engineered to provide optimal power and simplify the integration of in-wall subwoofers into your audio environment.



Figure 1: Front view of the Definitive Technology Subamp 600 120V Amplifier. This image displays the amplifier's front panel, typically black, with various controls and indicators for operation.

## 2. SAFETY INFORMATION

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Please read all safety and operating instructions before using this product. Retain these instructions for future reference.

- **Power Source:** Connect the amplifier only to a 120V AC power source as indicated on the unit.
- **Ventilation:** Ensure proper ventilation. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Water and Moisture:** Do not expose this appliance to rain or moisture. Do not place objects filled with liquids, such as vases, on the apparatus.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Cleaning:** Unplug this product from the wall outlet before cleaning. Use a dry cloth for cleaning.
- **Cables:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

## 3. PACKAGE CONTENTS

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Carefully unpack your Definitive Technology Subamp 600. Ensure all items listed below are present and in good condition. If any items are missing or damaged, contact your dealer immediately.

- Definitive Technology IW Sub Amp 600 Amplifier
- Power Cord
- Instruction Manual (this document)

## 4. SETUP AND INSTALLATION

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### 4.1 Placement

The Subamp 600 is designed to fit conveniently in standard audio equipment racks. Ensure adequate space around the unit for proper ventilation, especially at the rear where connections are made and heat may dissipate.

### 4.2 Connecting to IWSUB In-Wall Subwoofers

The Subamp 600 features two discrete high-power amplifier channels, allowing it to drive one or two Definitive Technology IWSUB in-wall subwoofers. The speaker posts are conveniently located on the rear panel for easy

access and secure connections.

1. **Power Off:** Ensure the Subamp 600 and all connected audio components are powered off before making any connections.
2. **Speaker Wire Preparation:** Strip approximately 1/2 inch (12mm) of insulation from the ends of your high-quality speaker wires. Twist the bare strands tightly.
3. **Connect to IWSUB:** Connect the positive (+) terminal of the Subamp 600's speaker output to the positive (+) terminal of your IWSUB. Connect the negative (-) terminal of the Subamp 600's speaker output to the negative (-) terminal of your IWSUB. Repeat for a second IWSUB if applicable, using the second amplifier channel.
4. **Input Connection:** Connect the audio input from your receiver or pre-amplifier to the appropriate input jacks on the Subamp 600. Use high-quality RCA cables for optimal signal transfer.

## 4.3 Power Connection

Once all audio connections are made, connect the supplied power cord to the AC inlet on the rear of the Subamp 600, and then plug the other end into a grounded 120V AC wall outlet.

# 5. OPERATING INSTRUCTIONS

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## 5.1 Powering On/Off

The Subamp 600 features an automatic signal sensing power-on function. When an audio signal is detected from your source component, the amplifier will automatically power on. When no signal is detected for a period, it will enter a standby mode.

- **Automatic Operation:** Simply ensure the amplifier is plugged in and your source component is playing audio.
- **Manual Power:** A power switch may be present on the front or rear panel for manual control. Refer to the specific unit for its location.

## 5.2 Adjusting Settings

The Subamp 600 typically includes controls for adjusting volume (gain), crossover frequency, and phase. These controls allow you to integrate the subwoofer seamlessly with your main speakers and room acoustics.

- **Volume/Gain:** Adjust this to match the output level of your main speakers. Start low and gradually increase.
- **Crossover:** This control determines the highest frequency the subwoofer will reproduce. Set it to blend smoothly with your main speakers' low-frequency cutoff.
- **Phase:** Adjust the phase (0° or 180°) to ensure the subwoofer's output is in phase with your main speakers, preventing cancellation at the crossover point.

# 6. MAINTENANCE

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Proper care and maintenance will ensure the longevity and optimal performance of your Subamp 600.

- **Cleaning:** Use a soft, dry cloth to clean the exterior surfaces of the amplifier. Do not use liquid cleaners, aerosols, or abrasive cloths, as these may damage the finish.
- **Ventilation:** Periodically check that the ventilation openings are clear of dust and debris. Blocked vents can lead to overheating.
- **Connections:** Occasionally check all cable connections to ensure they are secure. Loose connections can degrade audio quality.

## 7. TROUBLESHOOTING

If you experience issues with your Subamp 600, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer	<ul style="list-style-type: none"><li>• Power cord not connected</li><li>• Amplifier not powered on</li><li>• Input cables loose or incorrect</li><li>• Speaker wires loose or incorrect</li><li>• Source component not sending signal</li></ul>	<ul style="list-style-type: none"><li>• Ensure power cord is securely plugged into amplifier and wall outlet.</li><li>• Check power indicator on amplifier. If off, verify signal input or manually power on.</li><li>• Verify input cables are securely connected to both the amplifier and source.</li><li>• Check speaker wire connections at both the amplifier and subwoofer. Ensure correct polarity.</li><li>• Confirm your receiver/pre-amp is sending a signal to the subwoofer output.</li></ul>
Distorted or poor sound quality	<ul style="list-style-type: none"><li>• Volume/gain too high</li><li>• Incorrect crossover setting</li><li>• Phase mismatch</li><li>• Loose connections</li></ul>	<ul style="list-style-type: none"><li>• Reduce the volume/gain on the amplifier.</li><li>• Adjust the crossover frequency for a smoother blend with main speakers.</li><li>• Toggle the phase control (0°/180°) to find the setting that provides the most impactful bass.</li><li>• Check all audio and speaker cable connections.</li></ul>
Amplifier overheats	<ul style="list-style-type: none"><li>• Insufficient ventilation</li><li>• Overdriving the amplifier</li></ul>	<ul style="list-style-type: none"><li>• Ensure adequate space around the amplifier for airflow. Clear any blocked vents.</li><li>• Reduce the volume level. If the issue persists, consider if the amplifier is being pushed beyond its limits.</li></ul>

## 8. SPECIFICATIONS

Feature	Detail
Model Name	Subamp 600
Model Identifier	UCYC
Brand	Definitive Technology
Output Power (1 Channel)	275 Watts
Output Power (2 Channels)	230 Watts per channel
Number of Channels	2
Voltage	120 Volts
Item Dimensions (L x W x H)	9.63 x 17.06 x 3.69 inches
Item Weight	25 Pounds
Mounting Type	Designed for equipment rack placement ( <i>Note: "Wall Mount" is listed in some specifications, but product description indicates rack placement.</i> )

Feature	Detail
UPC	093207018589

## 9. WARRANTY INFORMATION

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This Definitive Technology Subamp 600 amplifier is covered by a manufacturer's warranty. For specific details regarding the warranty period, coverage, and terms, please refer to the warranty card included with your product or visit the official Definitive Technology website. Keep your proof of purchase for warranty claims.

## 10. CUSTOMER SUPPORT

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If you have any questions, require technical assistance, or need to report a problem that cannot be resolved using the troubleshooting guide, please contact Definitive Technology customer support.

For the most up-to-date contact information, please visit the official Definitive Technology website:

[www.definitivetechology.com](http://www.definitivetechology.com)