Arylic Up2Stream AMP 2.1

Arylic Up2stream Amp 2.1 WiFi & Bluetooth 5.0 Amplifier Board Instruction Manual

Model: Up2Stream AMP 2.1

1. INTRODUCTION

The Arylic Up2stream Amp 2.1 is a versatile WiFi and Bluetooth 5.0 amplifier board designed for multiroom home audio systems and DIY speaker projects. It provides 50W+100W output for stereo channels and a subwoofer, enabling high-quality audio streaming and amplification.

2. KEY FEATURES

- **Wireless Connectivity:** WiFi (802.11 b/g/n 2.4G) and Bluetooth 5.0 for seamless audio streaming.
- **High Power Output:** 50W x 2 channels + 100W subwoofer output.
- **Multiroom/Multizone Audio:** Synchronized playback across multiple devices or different audio in each zone.
- **Versatile Inputs:** USB 2.0, Line-in (3.5mm), Ethernet (RJ45 10/100M).
- **Audio Output:** Analog 3.5mm and Digital I2S.
- **High-Resolution Audio:** Decoding up to 24bit/192kHz.
- **App Control:** Manage settings and streaming via the 4STREAM app (iOS/Android).
- **DSP Support:** Digital Signal Processing for audio customization.

3. SPECIFICATIONS

Feature	Detail
Brand	Arylic
Model Number	Up2Stream AMP 2.1
Connectivity	WiFi (IEEE802.11 b/g/n 2.4G), Bluetooth 5.0, Ethernet (RJ45 10/100M)
Output Power	200 Watts (50W x 2 + 100W)

Frequency Response	20Hz to 20kHz
Power Input	DC 12-26V
Audio Output	Analog 3.5mm, Digital I2S
THD	0.03%
SNR	91dB
Music Format	MP3/AAC/AAC+/ALAC/APE/WAV
Decoding	Up to 24bit/192kHz
Dimensions	3.94 x 3.15 x 0.59 inches

4. PACKAGE CONTENTS

The Arylic Up2stream Amp 2.1 package typically includes:

- Up2stream Amp 2.1 Board
- WiFi Antenna
- Bluetooth Antenna
- Speaker Connector Terminal
- Screwdriver
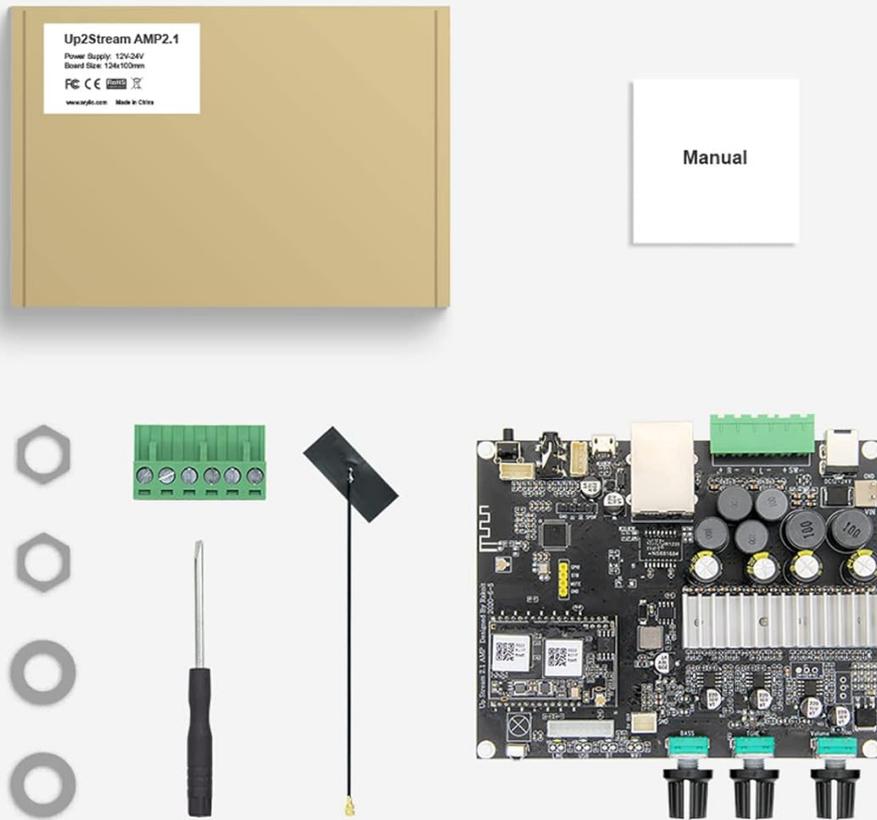- Mounting Hardware (nuts and washers)
- User Manual

Image: The package contents of the Arylic Up2stream Amp 2.1, including the main board, antennas, connectors, and tools.

Video: An unboxing of the Arylic Up2stream Amp 2.0 and Up2stream Pro, demonstrating the typical contents and initial presentation of the amplifier boards.

5. CONNECTIONS

Familiarize yourself with the various input and output ports on the Up2stream Amp 2.1 board:

- **DC-IN:** Power input (12-26V).
- **Speaker Out:** Connect your passive speakers and subwoofer.
- **LAN:** Ethernet port for wired network connection.
- **USB:** For connecting USB storage devices with music files.
- **Micro USB Input:** Alternative 5V/1A power input.
- **Line-in:** 3.5mm auxiliary input for external audio sources.
- **Reset Button:** Used to reset the device or enter pairing mode.
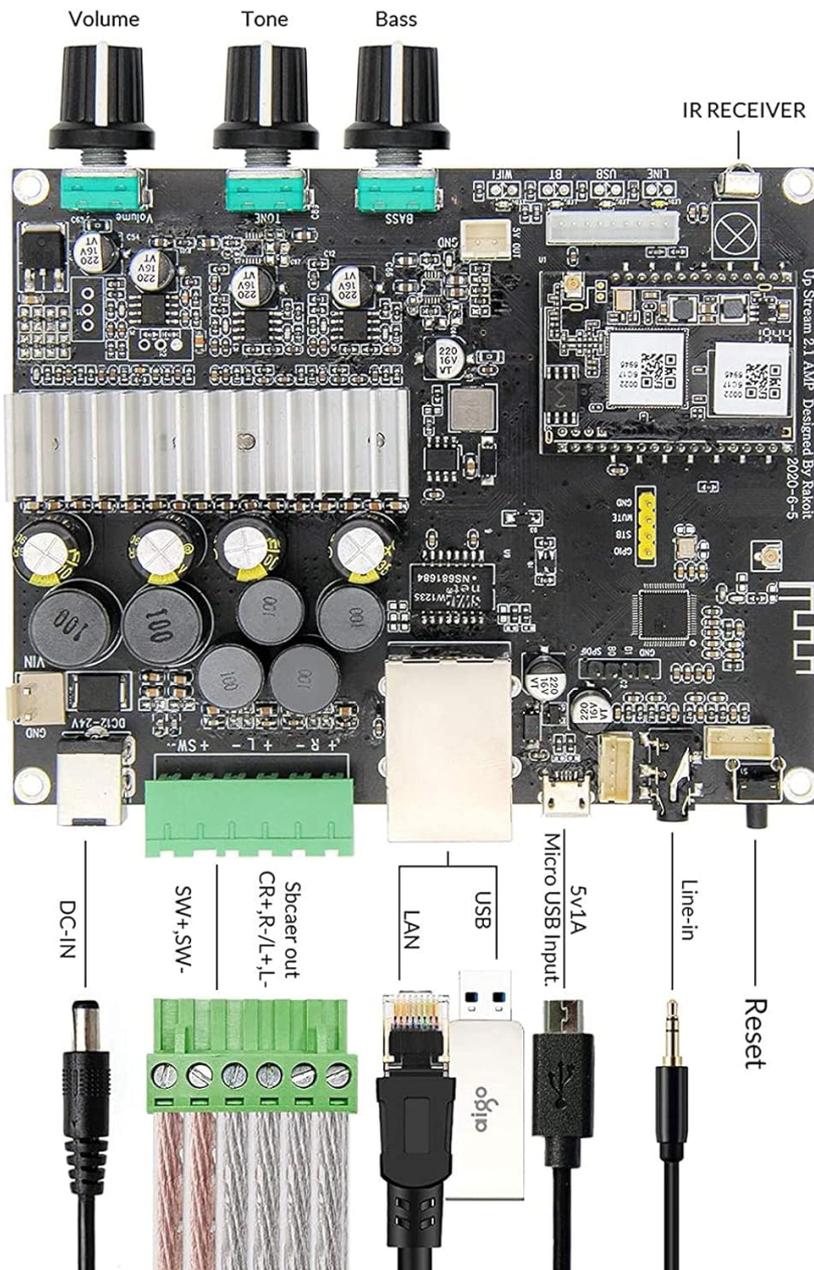- **IR Receiver:** For optional remote control.

Image: A detailed diagram showing all connection points on the Arylic Up2stream Amp 2.1 board, including DC-IN, speaker outputs, LAN, USB, Micro USB, Line-in, and IR receiver.

Video: A review of the Up2stream Pro, highlighting its WiFi and Bluetooth audio receiver board features and various connection ports.

6. SETUP

6.1 Powering On

1. Connect the DC-IN port to a 12-26V power supply.

2. Alternatively, use the Micro USB Input with a 5V/1A power adapter.

3. The LED indicator will light up, indicating the device is powered on.

6.2 Connecting Speakers

1. Connect your passive stereo speakers to the L/R speaker terminals.

2. Connect your passive subwoofer to the SW speaker terminals.

3. Ensure correct polarity (+ to + and - to -) for optimal sound quality.

6.3 Connecting to WiFi/Bluetooth

1. **WiFi Setup:** Download the 4STREAM app from your mobile device's app store. Power on the device. Open your mobile device's WiFi settings and connect to the network named "SoundSystem_XXXX". Open the 4STREAM app and follow the on-screen instructions to connect the device to your home WiFi network.

2. **Bluetooth Pairing:** In the 4STREAM app, select the Bluetooth input. On your mobile device, go to Bluetooth settings and pair with "SoundSystem". You will hear a sound prompt upon successful connection.

Video: A detailed demonstration of setting up the Arylic Up2Stream AMP 2.0, including power connection, speaker wiring, and initial configuration via the 4STREAM app for WiFi and Bluetooth.

7. OPERATION

7.1 Music Streaming

- **WiFi Streaming:** Use the 4STREAM app to access various streaming services (Spotify, Amazon Music, Tidal, Deezer, etc.) or local music files from your phone, NAS, or USB disk.

- **Bluetooth Streaming:** Connect your mobile device via Bluetooth to stream audio directly to the amplifier.

- **USB Playback:** Insert a USB drive containing music files into the USB port. Control playback via the app or remote.

- **Line-in:** Connect an external audio source (e.g., CD player, TV) to the 3.5mm Line-in port.

7.2 Multiroom/Multizone Functionality

With multiple Arylic Up2stream devices, you can create a multiroom audio system:

- **Synchronized Playback:** Group devices in the 4STREAM app to play the same music simultaneously in different rooms.

- **Independent Zones:** Play different music in each room by controlling individual devices via the app.

Image: An illustration showing multiple Arylic devices connected in different rooms (bedroom, living room, kitchen, bathroom) for a multiroom audio experience.

7.3 App Control

The 4STREAM app provides comprehensive control over your amplifier:

- **Volume Control:** Adjust master volume and individual zone volumes.
- **Source Selection:** Switch between WiFi, Bluetooth, Line-in, and USB inputs.
- **EQ Adjustment:** Customize treble and bass settings.
- **Playlist Management:** Create and manage playlists from various sources.

Easily Control Via App & Web
Just enter the device IP in the browser.

Image: Screenshots of the 4STREAM app interface on a smartphone and a web browser, demonstrating easy control over music playback and device settings.

Video: A detailed demonstration of setting up the Arylic Up2Stream AMP 2.0, including power connection, speaker wiring, and initial configuration via the 4STREAM app for WiFi and Bluetooth.

8. MAINTENANCE

- Keep the device in a dry, well-ventilated area away from direct sunlight and extreme temperatures.
- Clean the surface with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure all connections are secure and free from dust or debris.

9. TROUBLESHOOTING

- **No Power:** Check power supply connections and ensure the power adapter is functioning correctly.
- **No Sound:** Verify speaker connections, check volume levels in the app and on the source device, and ensure the correct input source is selected.

- **WiFi Connection Issues:** Ensure the device is within range of your WiFi router. Try resetting the device by pressing the Reset button.
- **Bluetooth Pairing Failure:** Ensure the device is in Bluetooth pairing mode (blue LED). Forget the device from your mobile device's Bluetooth settings and try pairing again.
- **Audio Latency/Delay:** For critical sync playback, a wired LAN connection is recommended over WiFi.

10. WARRANTY AND SUPPORT

Arylic offers a 12-month after-sales service for this product. For technical support, warranty claims, or any inquiries, please contact Arylic customer service. They aim to provide 24-hour feedback.
For more information, visit the official Arylic website or refer to the product page on Amazon.