

Arylic

B50
User's Manual



B50 Bluetooth Stereo Amplifier with Audio Transmitter.



aptX HD



75W x2



TV ARC



Audio TX



APP

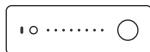
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1. Introduction

Arylic B50 is a Bluetooth wireless stereo amplifier with the ability to transmit your music wirelessly to bluetooth earphones. B50 not only can receive music from your mobile, but also has analog and digital inputs, it comes with phono input for use with turntable which needs higher amplification, TV ARC input for use with TV. If you have many music files stored in USB disk drive, you can also play them with resume playback function. All the input sounds can be played to connected speakers or stream wirelessly to Bluetooth earphones or earbuds. You can control B50 with remote controller or with our free mobile application for both Android and iOS system, that lets you have full control on the device plus user friendly EQ system.

2. What's in the box



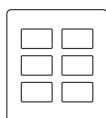
Main Unit x1



Antenna(3dBi) x2



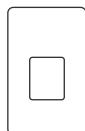
User's Manual x1



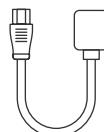
Usage x1



Remote Control x1



Power Adapter 24V/4.16A x1



Power Cable x1

3. Interface



1. Turn on/off power of device.
2. IR sensor: For IR remote controller to control the device.
3. Status LEDs: LEDs indicate current status/input source.

When BT LED is flashing, it indicates the device is in BT Receiver (RX) mode and is waiting for connection. Once connected the LED will stay on.

When one of the source input LED is on and BT LED is also on, it indicates BT Transmitter (TX) mode is on and is using the current source as input.

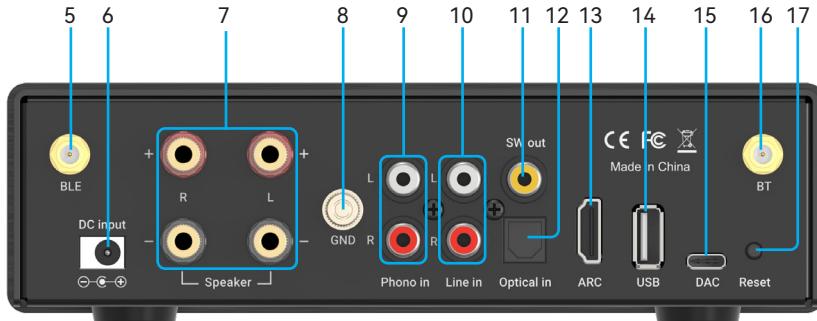
All LEDs will turn on during firmware update, do not turn off power at this time, wait till all LEDs turn off and back to BT mode.

All LEDs will start flashing when device goes in protection mode, please turn off the device and check for reason (generally is either over heat or output is short-circuited)

4. Volume knob + Input mode button: Turn to increase/decrease volume.

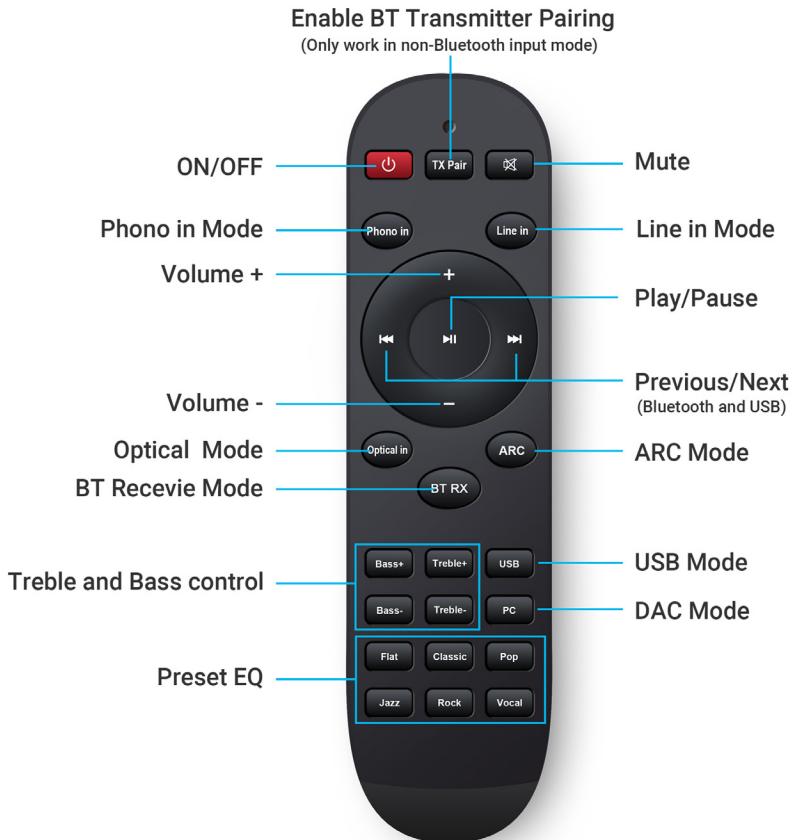
Press to change input source mode.

Long press to go into standby mode.



5. BLE Antenna: For Bluetooth BLE connection.
6. DC input: Please use the power adaptor comes with the package, using other power adaptor might damage the device.
7. Speaker out banana plug: For connection to 4-8ohm passive speakers.
8. Ground connector: For connection to turntable GND connector (optional).
9. Phono input connector: For connection to turntable as phono amplifier.
10. Line input connector: For connection to device with line output.
11. Subwoofer output connector: For connection to active subwoofer.
12. Optical input connector: For connection to device with optical output.
13. TV ARC connector: For connection to TV HDMI ARC port.
14. USB Type-A port: For connection to USB disk drive.
15. USB Type-C port: For connection to PC.
16. BT Antenna: For Bluetooth connection.
17. Reset button: When in Bluetooth Receiver mode, press twice to disconnect all Bluetooth connections.
When in Source input mode, press once to enable Bluetooth Transmitter connection, press twice to disconnect all Bluetooth connections.
When a Bluetooth device or mobile is connected, press once to start second device connection.
Press and hold the button to do factory reset.

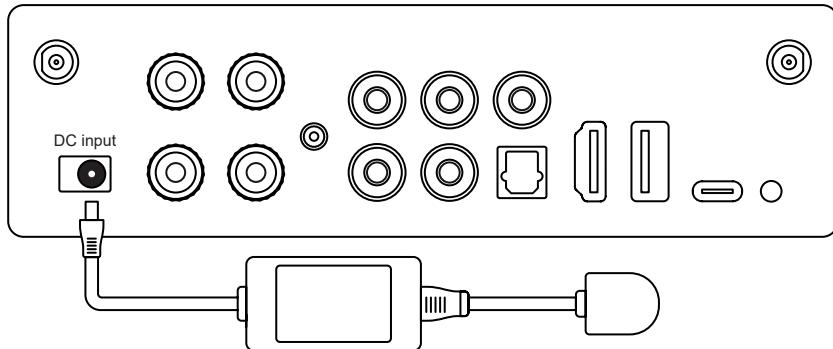
4. Remote Controller



5. Installation

Install both antennas to the device and plug in the power adaptor.

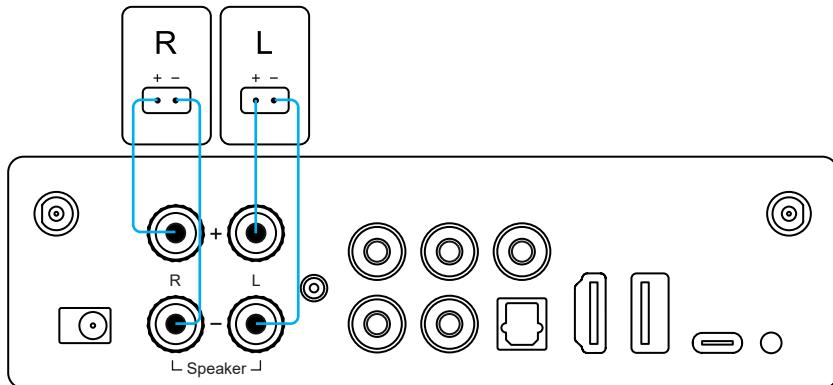
(Please make sure power is off before connecting.)



6. Connection

6.1 Passive Speakers

Use speaker cable to connect the device to your passive speakers.



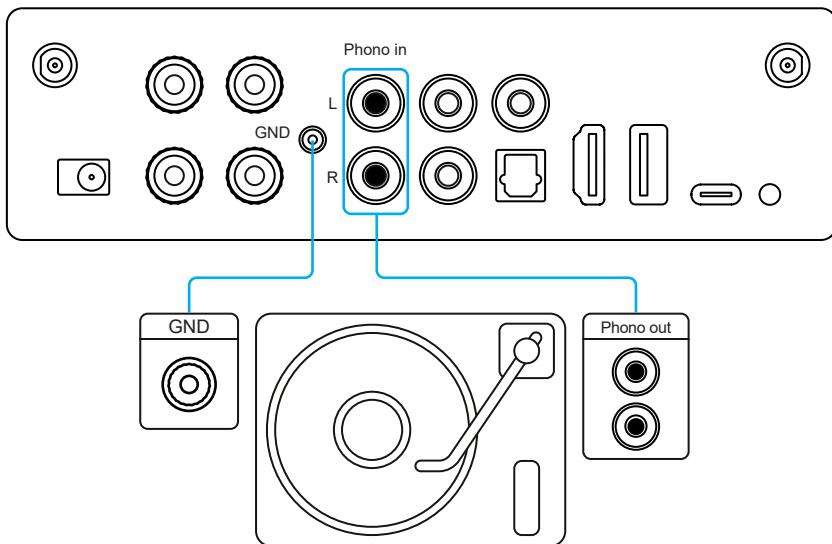
6.2 Phono in

Connect the turntable Audio out to the Phono in RCA connectors.

If your turntable has GND socket, you can connect it to the GND socket on the device. This is optional, if your turntable doesn't have GND socket, you can ignore it.

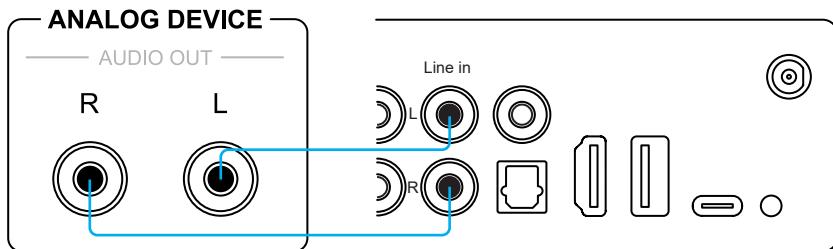


*Do not connect other device Line out to Phono in, it will create very loud voice and might damage the device and connected speakers.



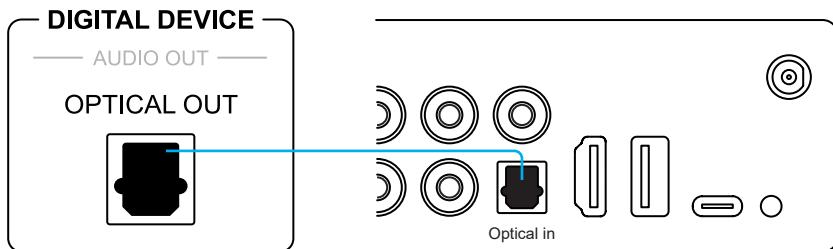
6.3 Line in

Connect any playback device with Audio out/Line out/AUX out to Line in using an RCA cable.



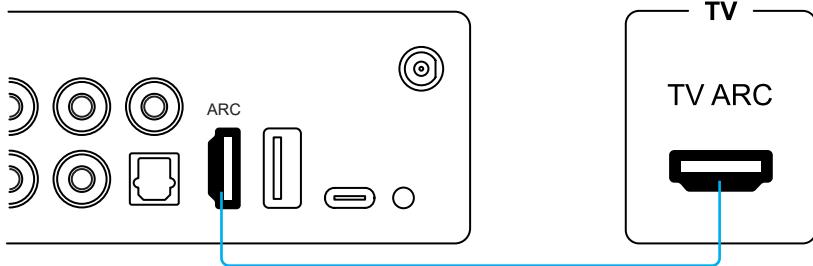
6.4 Optical in

Connect any playback device with Optical out to Optical in using an optical cable.



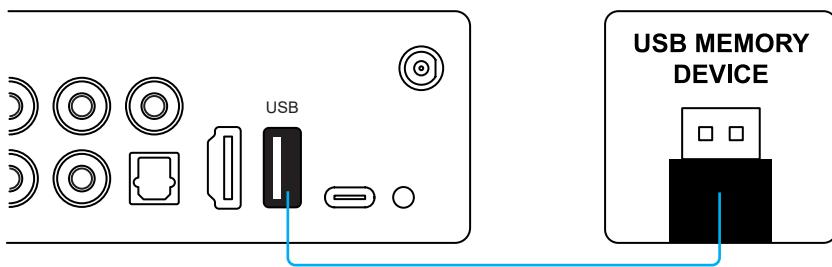
6.5 TV ARC

If your TV has HDMI ARC port, there should be a ARC text beside. You can use a HDMI cable to connect it to the ARC port on the device.



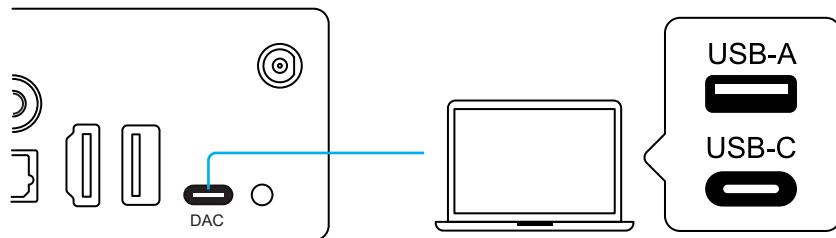
6.6 USB Disk Drive

Plug in USB disk drive to the USB Host to play music.



6.7 Connect to PC

Connect PC with a USB Type-C cable. Please make sure this cable is a Data link cable and not just a charging cable, or else your PC will not recognize the device.



7. Usage

7.1 Bluetooth Receiver Mode

When in Bluetooth receiver mode, the BT LED will be flashing which indicates it is waiting for connection. In your BT transmitter device (mobile phone, pad, TV) you can search for a Bluetooth device name "B50 XXXX" (XXXX is the serial number) and connect to it.

Once connected, the BT LED will stay on which indicates the connection is successful and you can start playing music from the connected device and hear the sound coming out of the connected passive speakers.

The device will remember connected devices,
it will auto connect to paired device.



You can connect up to 2 devices at the same time, once the first device has been connected, press the Reset button on the back of the device or press the BT button on the remote controller to enter pairing mode for the second device. The connection process is the same as the first device.

Please note, only one device can play music at a time, only when the current playing device stop music playback, can the other device start streaming music.

To disconnect the Bluetooth connection, quickly press the Reset button twice to disconnect all the connection.

7.2 Bluetooth Transmitter Mode

To enable Bluetooth transmitter mode, once you are in one of the source input modes (Line in / Phono in / Optical in / TV ARC / USB disk drive / USB DAC) press the Reset button on the back or press the BT TX button on the remote controller to enable.

Once enabled, you will notice the BT LED will start flashing, the device will then search for nearby Bluetooth receiver device (Bluetooth Speakers, headphones) and connect to it.



Please note, some BT receiver device might need you to enter pairing mode first, some BT receiver device might need to press a connection button to establish the connection. Please refer to the device user manual or contact the seller for advice if needed.



After successfully connected, the BT LED will stay on and you should be able to hear the sound coming out from the connected Bluetooth device, and the connected passive speaker will have no sound.

You can connect a second BT receiver device once the first device has been successfully connected. Press the Reset button on the back or press the BT TX button on the remote controller will trigger the device to enter pairing mode for the second BT receiver device. The connection process is the same as the first device.

Connecting the second device will take 20 to 50 seconds, please be patient.

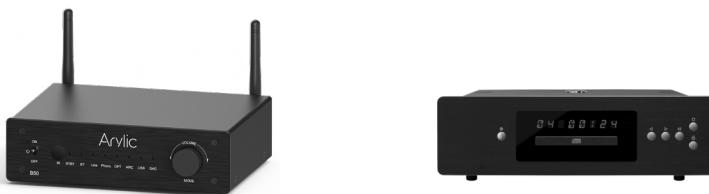
Once connected, both BT receiver device will have sound output.

To disconnect the Bluetooth connection, quickly press the Reset button twice to disconnect all the connection.

7.3 Line in Mode

You can connect any analog device with line out to B50. You will need to switch to Line in mode with the Mode button on the device, use the remote controller or in the Go Control APP. The Line LED will turn on when B50 is Line in mode.

You can also stream Line in audio through Bluetooth and listen from connected Bluetooth receiver devices such as Bluetooth speakers or Bluetooth headphone.



7.4 Phono in Mode

B50 is also a turntable amplifier, you can connect your turntable to the Phono in connectors and the GND connector to play music. Press the Mode button on the device, use the remote controller or in the Go Control APP to switch to Phono in mode. The Phono LED will turn on when you in Phono in mode.

You can also stream turntable audio through Bluetooth and listen from connected Bluetooth receiver devices such as Bluetooth speakers or Bluetooth headphone.

Please note, compare to Line in mode, Phono in mode has a very high amplification due to the low volume of turntable. Do not connect any analog device line out to Phono in, it will create a very loud voice and risk of damaging the device and connected speakers.



7.5 Optical in Mode

You can connect any device with digital optical output to B50. You can press the Mode button on the device, use the remote controller or in the Go Control APP to switch to Optical in mode. The OPT LED will turn on when you in Optical in mode.

You can also stream Optical in audio through Bluetooth and listen from connected Bluetooth receiver devices such as Bluetooth speakers or Bluetooth headphone.



7.6 HDMI ARC Mode

Nowadays most TV comes with TV ARC which is a special HDMI port for audio output. B50 has such TV ARC port for you to connect to your TV as an external stereo sound system and play music from your passive speakers. In order to use TV ARC, you will need to press the mode button on the device, use the remote controller or in the Go Control APP to switch to TV ARC mode. The ARC LED will turn on when you are in TV ARC mode. B50 supports HDMI CEC function.

You can also stream the music from TV through Bluetooth and listen from Bluetooth headphones, when you want to watch TV without disturbing others.



7.7 USB Disk Drive Playback Mode

If you have many music files and you want to play them, you can store them in a USB disk drive and playback from B50. Just plug in the USB disk drive with music files and B50 will auto switch to USB Mode and playback the music. The USB LED will turn on.



B50 also has resume playback function, if you stop playing the music or switch to another source input mode or unplug the USB disk drive, B50 will start from the last song being played when you enter USB disk drive playback the next time.

You can also stream stored music to connected Bluetooth speakers or headphones via Bluetooth transmitter mode.



* Please note the USB disk drive file format has to be Fat16/Fat32/exFat.

* Can support up to 128GB USB disk drive.

7.8 USB DAC Mode

You can connect B50 to your PC to work as an external USB stereo sound system using a USB Type-C cable. Please make sure the cable you use is data link cable and not just a charging cable. Some charging cable is only for battery charging and does not contain data link to transfer data.

You will need to select B50 as the sound output device in your PC for it work. Look for the device name call “Up2Stream USB Audio” and connect to it. Same as other input modes, you can stream your PC audio to other connected Bluetooth device.



8. ACPWorkBench (Sell Separately)

ACPWorkbench is a windows application that allows you to tune B50 audio effects conveniently, including Music Noise Suppressor, Virtual Bass, Stereo Widener, Exciter, 10 bands EQ and many more. When tuning, it will have real-time feedback and you can save and export the changes you made for use in another B50 device.



9. Mobile Application

Go Control is a user-friendly control application for B50. You can easily take control of the device without complicate configuration, Go Control will automatically detect close by B50 device and connect to it. Go Control lets you do playback control, input source selection, enable Bluetooth pairing, enable Bluetooth transmission and in-depth EQ settings for B50 device.

Go Control is available in both Google Play Store and Apple App Store.



Features:

1. Manage multiple devices in one app.
2. Playback controls, such as stop, pause, mute, previous, next.
3. Switch audio sources remotely.
4. Control and show connected phone info and bluetooth codec in RX mode.
Control and show connected earphone info in TX mode.
5. Dark mode, Change device name, LED on/off, check firmware version.
6. More features available in future.

10. Specification

| Bluetooth | | | |
|--------------------|---|--|---|
| Bluetooth Standard | 5.2 | | |
| Transmit | 2x Bluetooth TX, able to connect up to 2 Bluetooth speaker or earbuds | | |
| Receive | 2x Bluetooth RX, able to connect up to 2 Bluetooth transmitter device | | |
| Codec | aptX HD, aptX LL, aptX AD, AAC, SBC | | |
| Amplifier | | | |
| Amplifier Power | 50W *2 @ 24V 4ohm 30W *2 @ 24V 8ohm | | |
| Speaker Impedance | 4-8ohm | | |
| Frequency Response | 20kHz | | |
| THD+N | <0.1% @ 1W 1kHz | | |
| SNR | >93db @ max power | | |
| Audio I/O | | | |
| Audio Input | Line in | Analog RCA, Max 2V RMS input | |
| | Phono in | Analog RCA, Support MM/MC | |
| | Optical in | Up to 192kHz/24bit PCM only | |
| | TV ARC | PCM only, CEC function supported | |
| | USB Host | USB disk drive playback, support resume playback Storage format: Fat16, Fat32, exFAT, up to 128GB Support codec: mp3(data rate up to 384kbps), mp4, wma, mov, m4a, aac, flac(96kHz/24bit), ape | |
| | | USB Type-C | |
| Audio Output | Subwoofer out | Max 3V RMS output, Frequency Response: 250Hz | |
| | Speaker out | 50W per channel @ 4ohms | |
| General | | | |
| Power Input | 24V/4.16A | Size | 185 x 155 x 50 mm |
| Weight | 900g | In the Box | Main Unit x1 / Antenna(3dBi) x2 / Remote Control x1 User's Manual x1 / Power Adapter x1 / Power Cable x1 |

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

Scan the QR codes below for more

Support: info@arylic.com



arylic.com



Facebook: arylicme



YouTube: Arylic



Go Control App



User's Manual



Forum



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