

# pure acoustics®

## In-Wall Multimedia Amplifier

Model # AV-105BT



### User Manual & Safety Guide

Thank you for choosing Pure Acoustics. We hope you enjoy each and every use of this product. We suggest that you read this user manual carefully before primary use in order to utilize all of the features in functions installed. Please store it in a safe place for future reference and pass it on to the next owner.

### **Caution & Safety Guide:**

Please power off the unit when not in use. If the unit will not be in use for extended periods it is suggested that you disconnect the unit from its power source.

To prevent damage to the unit do not install in areas of extreme heat or in areas with direct exposure to sunlight.

Don't install the unit in or near a place where it may come in contact with rain, moisture or other liquids.

Install the unit on a horizontal, flat and firm surface with good ventilation. Never block the speaker, blocking these vents may cause damage to the speaker as a result of overheating.

To clean the unit, simply wipe it down using a dry, soft cloth. The unit should never be cleaned chemicals or detergent.

In the rear occurrence of malfunction do not attempt to repair the unit on your own. Contact a certified service professional for a proper diagnosis and repair.

Caution: Dismantling the unit on your own is dangerous and may cause damage to your person or property and will void the warranty.



The lightning flash is intended to alert the user to the presence of dangerous voltage within the product's enclosure and touching the internal components may result in electric shock to your person.



The exclamatory mark is intended to alert the user to the presence of important operating instructions.



To reduce the risk of electric shock or fire, do not remove the cabinet cover simply contact a service professional.

## In the box:

In wall Amplifier  
External Adapter  
Audio terminal adapters (right/left x2)  
Power terminal port adapter

## Technical Specifications:

**Amplifier Type:** Class D

**Power Output:** 40W (20W x2)

**Frequency Response:** 20Hz - 20 kHz

**Impedance:** 4Ω

**Infrared Distance:** <10 Meters (33ft)

**Operating Voltage:** 110/220V 50Hz/60Hz

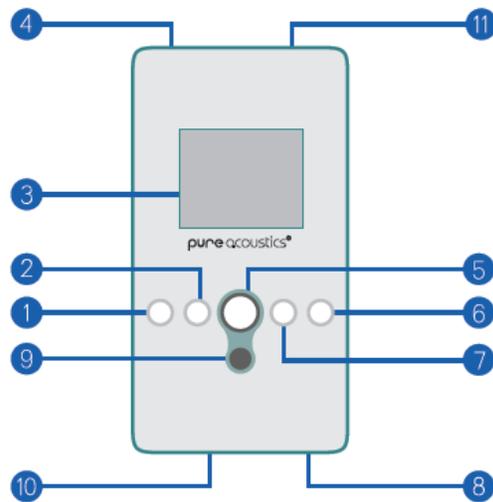
**THD:** 0.03%

**Product Dimensions:** 11.5 x 7 x 4.5 cm (4.53 x 2.8 x 1.8 inches)

**Cutout Dimensions:** 10.3 x 6.8 x 4.8 cm (4.05 x 2.7 x 1.9 inches)

## Features

- **Amplifier Wireless** in wall amplification to 2 embedded in-wall/in-ceiling speakers
- **Bluetooth** Stream music wirelessly from any Smartphone, tablet or Bluetooth enabled music player
- **USB** Plug and play music directly off of a flash drives
- **Micro SD** Access music files stored on your memory card
- **FM Radio** Digital FM tuner with auto-scan
- **Auxiliary** Input Direct connection to Smartphones, Tablets and other music devices
- **LCD** Screen Displays mode, volume level, track and artist information and more
- **Sleep Timer** Provides numerous preset automatic power off timer settings



**Panel Instruction:**

- 1. Equalizer
- 2. Previous song / VOL -
- 3. LCD display
- 4. Power switch
- 5. FM radio / Play/Pause
- 6. Source / Sleep
- 7. Next song / VOL +
- 8. USB port
- 9. Infra red reciever
- 10. SD port
- 11. 3.5mm headphone jack (AUX IN)

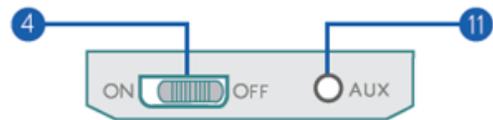
**USB/SD Position**



**Panel Instruction:**

- 4. Power switch
- 8. USB port
- 10. SD port
- 11. 3.5mm Headphone jack (AUX IN)

**Power Switch/AUX position**



**Remote Control Description:**



- Power switch**
- Mode switch**
- Mute**
- PRE/NEXT song**
- PLAY/PAUSE**
- VOL-/VOL+**
- EQ control**
- 0 - 9 - 100+ select key figures**
- Repeat**

## Plug n' Play Connections:

- Switch the On/Off button to the "On" position on the top panel of the device -

Note: The default mode is USB/SD immediately upon power up

- To play songs off of a flash drive - Simply attach the flash drive into the USB port and the device will automatically begin reading the files
- Use the AUX input to plug & play music files on your Smartphone, tablet and/or music players
- To listen to the radio press the mode button until the device enters FM mode. Use the arrows on the device or Ch+/Ch- buttons on the IR remote control to manually select the desired station. Long press the Play/Pause button on the device or IR remote control to use the auto scan feature
- To play audio files stored on a memory card simply insert the card into the SD card slot, the music files will be read automatically

## Connecting Using a Bluetooth Device

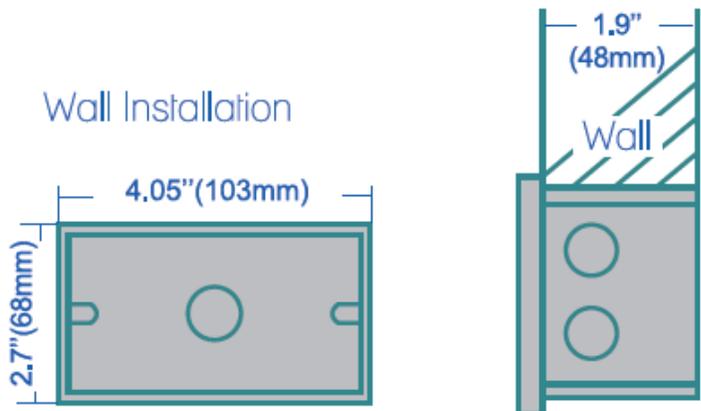
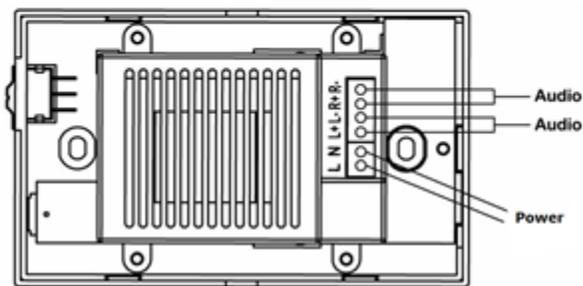
Your AV-105BT is equipped with an automatic pairing feature. This feature allows you to connect a bluetooth device effortlessly without having to enter a specific mode. To connect, simply turn on the Bluetooth function on your Smartphone, Tablet or music player and search for "Pure AV-105BT". Select it from the list of discovered devices to connect.

Once the connection is successful the unit will automatically enter Bluetooth mode automatically and music can be streamed wirelessly.

## Installation Measurements:

**Audio Out: L+, L- Speaker 1 R+, R- Speaker 2**  
**L and N: Power (110V)**  
**L by fire line, N by zero line**

### Terminal Description:



## Getting Started

Locate the area that you would like to install the AV-105BT and mark the spot using a ruler and pencil.

You should be able to do this...	...if you're comfortable with these household tasks..	...and know how to use these tools.
Single room runs of wire in new construction	<ul style="list-style-type: none"> <li>• installing new light fixtures or security wiring</li> </ul>	<ul style="list-style-type: none"> <li>• utility knife</li> <li>• power drill and drill bits</li> <li>• wire strippers</li> <li>• level</li> <li>• hammer</li> </ul>
Room-to-room runs of wire in new construction	<ul style="list-style-type: none"> <li>• installing new light fixtures or security wiring</li> <li>• wiring a whole-house computer network</li> </ul>	<ul style="list-style-type: none"> <li>• utility knife</li> <li>• power drill and drill bits</li> <li>• wire strippers</li> <li>• level</li> <li>• hammer</li> </ul>
Single room runs of wire in finished homes	<ul style="list-style-type: none"> <li>• installing new light fixtures or security wiring</li> <li>• patching and repairing drywall</li> <li>• touch-up painting</li> </ul>	<ul style="list-style-type: none"> <li>• fish tape (longer runs may require 2 tapes)</li> <li>• drywall saw</li> <li>• utility knife</li> <li>• power drill and drill bits</li> <li>• wire strippers</li> <li>• level</li> <li>• high-quality stud finder</li> <li>• electrical tape</li> </ul>
Room-to-room or indoor-to-outdoor runs of wire in finished homes	<ul style="list-style-type: none"> <li>• installing new light fixtures or security wiring</li> <li>• wiring a whole-house computer network</li> <li>• patching and repairing drywall</li> <li>• touch-up painting</li> </ul>	<ul style="list-style-type: none"> <li>• fish tape (longer runs may require 2 tapes)</li> <li>• drywall saw</li> <li>• utility knife</li> <li>• power drill and drill bits</li> <li>• wire strippers</li> <li>• level</li> <li>• high-quality stud finder</li> <li>• electrical tape</li> </ul>

See the chart above to determine which tools you'll need for your wiring project. You'll probably also need a partner to help you with some of the installation steps.



Here are some of the tools you may need for your project: (A) electrical tape; (B) measuring tape; (C) a stud finder; (D) a utility knife; (E) a drywall saw; (F) string (for pulling wire short distances); (G) a fish tape (for pulling wire longer distances).

### **Safety tips**

Make sure that you have a thorough understanding of local building and fire codes.

Also read and follow the safety guidelines below and those in the owner's manual.

- Be sure to use wire that meets local building and fire code. Use UL-rated wire labeled CL2 or CL3 for in-wall installations of speaker and audio/video cables, and CM, CMR, or CMP for in-wall installations of Ethernet cable.
- If installing in a house under construction, follow the safety procedures set in place by your builder, including those relating to the use and storage of extension cords and power tools. Some sites may require a hard hat or other protective clothing. Remember, you're working on a construction site, so exercise caution.
- In installing in a finished home, make sure the area behind your wall is clear before cutting (using the techniques discussed in our section on running wire through existing walls).
- If you drill through a fire block or firebreak, patch it with comparable material. If you drill holes between floors, seal them with fire-resistant caulk per National Electric Code standards.
- When working on a ladder:
  - Place your ladder in a stable position close to where you're working. Don't reach.
  - Always have one hand on the ladder.
  - Face the ladder when ascending or descending.
  - Don't carry heavy items up the ladder that could cause you to lose your balance and fall.
- Unplug your components before connecting the newly installed cables.
- Turn off the power in areas you'll be drilling or cutting to avoid electric shock.

## Installing the unit

1. Locate the area where you would like to install the unit in the wall.  
(Make sure you have access to 110/220V power source)
2. Prepare 110/220V cable length (necessary length varies by job site)
3. Prepare speaker audio cable length according to your needs (0.75mm is preferred)
4. Using the included electrical box trace the area where you would like to install the unit
5. Cutout the marked area using a “fine saw” (extra care should be taken in order to avoid over cutting)
6. Push out the holes on the electrical box prior to installing it in the cutout area on the wall.
7. Connect the power cable length to the power source  
(WARNING: MAKE SURE TO DISCONNECT THE POWER MAIN BEFORE CONNECTING ANY CABLES TO THE A POWER SOURCE)
8. Connect the speaker audio cable length to the audio speakers and then to the audio terminal ports on the back of the unit.
9. Pass the connected cables through the holes in the electrical box and then to the audio and power terminal ports on the back of the unit.

**Once again we thank you for purchasing the AV-105BT In-wall Bluetooth Multimedia Amplifier. It is our hope that you enjoy this product every time it is put to use therefore, we suggest that you keep this user manual safe for future reference and so it may be passed on to the next owner.**

**Please feel free to visit our website [www.pure-acoustics.com](http://www.pure-acoustics.com) for more information on this product as well as hundreds more**

**Enjoy!**

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