

# User and Installation Guide

## **5.8 GHz** **Wireless Audio Amplifier**

**Model 480**

  
**wireless**  
multi channel

***Amphony***<sup>®</sup>

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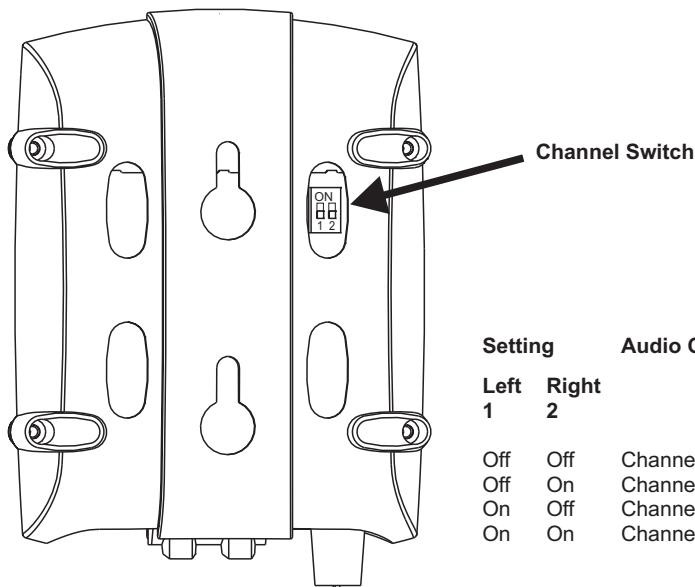
**Note:** This product requires the Model 400 Multi Channel Audio Transmitter for operation (not included).

**Unpacking:** Check that this package contains:

One 5.8 GHz Wireless Audio amplifier - Model 480, one 36 V AC adapter (wallwart), one short speaker cable.

## *Step 1* **Selecting the audio channel**

Select the wireless audio channel which the amplifier should receive by using a small screwdriver and toggling the red switch at the bottom of the amplifier.



Setting		Audio Channel	
Left	Right		
1	2		
Off	Off	Channel 1	Zone A Left
Off	On	Channel 2	Zone A Right
On	Off	Channel 3	Zone B Left
On	On	Channel 4	Zone B Right



## Connecting the amplifier

Connect the DC power input of the amplifier with the supplied large 36 V AC adapter (wallwart). **ATTENTION:** Connect the amplifier to the AC adapter **BEFORE** connecting the AC adapter to the power outlet to avoid sparks due to rush-in current.

Connect the amplifier to regular passive loudspeakers via the supplied speaker cable. Observe the correct polarity when connecting the speakers.

### ATTENTION!



Do not connect the amplifier to active speakers or active subwoofers! Use the Model 400 Wireless Audio receiver to connect to active speakers.

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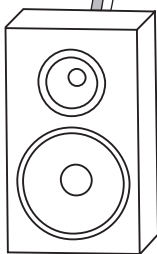
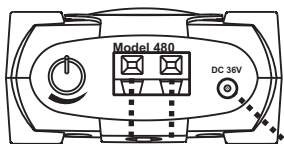
All product names, trade names, or corporate names mentioned in this document are acknowledged to be the proprietary property of the registered owners.

This device complies with part 15 of the FCC Rules. Operation is subjected 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.

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

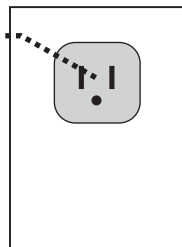
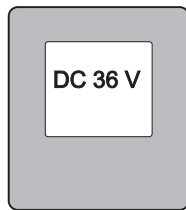
**Speaker connections:**

Wireless Audio Amplifier



Passive speaker

AC adapter



Power outlet



## Placing the amplifier

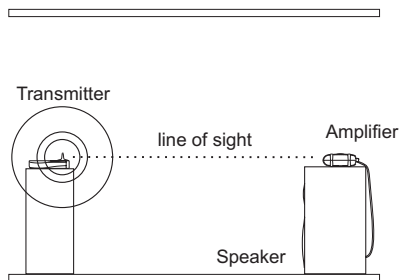
For best reception, we recommend that the amplifier be placed within the line of sight from the transmitter. If possible, the amplifier should be placed right side up with its front toward the transmitter.

Example 1 below shows the optimum placement of the amplifier. If no line of sight is possible, place the amplifier such that there is the minimum possible number of walls and obstacles between the transmitter and amplifier.

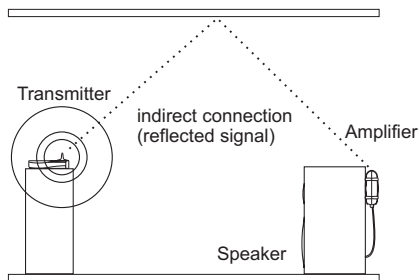
You can mount the amplifier vertically as shown in Example 2 by using the 2 screw openings at the bottom. In this case, the operating range is reduced compared to mounting the amplifier right side up.

The amplifier incorporates a directional antenna which prefers signals transmitted toward the front of the amplifier. Therefore, the front of the amplifier should always be facing toward the direction of the strongest transmitter signal.

**Note:** This product will not work properly from within an enclosed metal cabinet.



**Example 1:** Amplifier placed on top of a speaker



**Example 2:** Amplifier mounted vertically behind a speaker

**Troubleshooting**

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
No audio at amplifier	Faulty AC adapter or faulty power outlet	Check the amplifier power supply.
	Strong interference	See under "Strong Interference" on next page.
	Audio volume too low	See below under "Audio volume too low".
Audio is distorted	Amplifier volume control set too high	Lower the source audio volume until clipping stops.
	Strong interference	See under "Strong Interference" on next page.
Receiver audio level is too low	Audio volume too low	Raise the source audio volume to achieve the desired audio level. Connect transmitter to an adjustable audio output
	Amplifier volume control set too low	Adjust the amplifier volume control to achieve desired audio level.
Audio drops out intermittently or crackles	Strong interference	See under "Strong Interference" on next page.
	Unstable power supply	See under "Unstable power supply" below.
Audio drops out intermittently or crackles	Strong interference	See under "Strong Interference" on next page.
	Unstable power supply	Ensure that the power outlet delivers a stable voltage. Very strong surges or voltage fluctuations may cause audio dropouts. Try using a surge protector.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Transmitter range is extremely short	Strong interference	In some cases, there may be strong interference preventing proper reception of the audio signal which can be caused by 5.8 GHz cordless telephones or 5.8 GHz wireless networks. Either eliminate the interference, locate the base unit of the cordless phone in another room, set the wireless network to use the 5.1 GHz frequency band rather than 5.8 GHz, relocate the transmitter, relocate or reorient the amplifier to improve reception.
	Too many obstacles	Audio will drop out if there are too many obstacles between the transmitter and the amplifier, try relocating the transmitter or receiver to improve reception.

For up-to-date troubleshooting advice, visit **[www.amphony.com](http://www.amphony.com)**



**Technical Specifications:**

Output power: **150 W (80 Wrms)**

Frequency response: **2 Hz ... 20 kHz**

Number of wireless audio channels: **4**

Signal-to-noise ratio: **typ. 96 dB**

Total harmonic distortion: **0.04 %**

Audio latency: **< 1 ms**

Power efficiency: **90 %**

**Automatic power-down feature**

## **IMPORTANT SAFETY INFORMATION**

**READ THESE SAFETY INSTRUCTIONS CAREFULLY AND  
HEED ALL WARNINGS IN THIS MANUAL.**

**ATTENTION!**



### **POWER SOURCE**

To product malfunction, and to protect against electric shock, fire or personal injury, please observe the following:

- This product has been designed to work with 120-volt AC current using the supplied AC adapters. Connection to a line voltage other than that or use of non-compatible AC adapters may create a safety and fire hazard and may damage the product.
- Do not run power cords under rugs or carpets or place heavy objects on them.
- Damaged or deformed power cords are hazardous and should be replaced immediately by a qualified service technician.

### **LOCATION**

- Do not use this product outdoors or in cars.
- Do not place this product in direct sunlight, or near heat sources.
- Keep this product away from strong magnetic objects.

### **VOLUME CONTROL**

- Do not turn up the amplifier volume while listening to a portion with very low level input or no audio signal to avoid damage to your speakers during a peak level audio portion.
- Turn the amplifier volume control to minimum prior to connecting or disconnecting the transmitter or amplifier and prior to switching audio sources as this may cause loud clicks which can damage your speakers.

### **CARE**

- Do not place any object containing water or other liquids on this product.
- Do not remove the cabinet. Touching parts inside the cabinet could result in electric shock and damage to the product.

## NON-USE PERIODS

- When the product is not being used for a long period of time, unplug the product.

## CLEANING

- Unplug the product before cleaning.
- When the system gets dirty, wipe it with a clean, soft cloth. If necessary, wipe it with a soft cloth, slightly dampened with soapy water. Wipe dry immediately with a dry cloth.
- Never use benzene, aerosol cleaners, thinner, alcohol or any volatile cleaning agent.
- Do not use abrasive cleaners, as they may damage the finish.

## SERVICE

- Do not open the cabinet of any components. Opening the cabinets may present a shock hazard, and any modification to this product will void your warranty.
- Do not attempt to service the unit yourself.

# Limited warranty

## WHAT YOUR WARRANTY COVERS

This warranty extends only to the original user of the equipment ("you", "your") and is limited to the purchase price of each part. Amphony and its affiliated companies ("we", "our", "us") warrant this Wireless Audio Amplifier against defects in materials or workmanship as follows.

**LABOR:** For a period of ninety (90) days from the original date of purchase, if we determine that the equipment is defective subject to the limitations of this warranty, we will replace it at no charge for labor. We warrant any such work done against defects in materials or workmanship for the remaining portion of the original warranty period.

**PARTS:** For a period of one (1) year from the original date of purchase, we will supply, at no charge, new or rebuilt replacement parts in exchange for parts we determine are defective subject to the limitations of this warranty. We warrant any such replacement parts against defects in materials or workmanship for the remaining portion of the original warranty period.

**Note:** "Parts" means items included in this package. It does *not* include other parts purchased separately.

## WHAT YOUR WARRANTY DOES NOT COVER

This warranty *does not cover* consumer instruction, physical setup or adjustment of any consumer electronic equipment, or signal transmission problems.

This warranty *does not cover* cosmetic damage, damage due to the affixing of any attachment not provided with the product, loss of parts, connecting the product to any but the specified receptacles, lightning, electrical surges, fire, flood, or other acts of God, accident, misuse, abuse, repair or alteration by other than authorized service personnel, negligence, commercial or institutional use, or improper or neglected maintenance.

This warranty *does not cover* equipment sold AS IS or WITH ALL FAULTS, equipment removal or reinstallation, shipping damage if the equipment was not packed and shipped in the manner we prescribe, nor equipment purchased, serviced, or operated outside the contiguous United States of America.

## **LEGAL LIMITATIONS**

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. WE SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS EQUIPMENT, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS EQUIPMENT. UNDER NO CIRCUMSTANCES SHALL OUR LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS EQUIPMENT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. EXCEPT AS PROVIDED HEREIN, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WE RESERVE THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF WE DETERMINE ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS EQUIPMENT NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL NUMBERS AND WARRANTY LABELS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE TRANSMITTER OR AMPLIFIER HAVE BEEN OPENED BY AN UNAUTHORIZED PERSON.

This warranty gives you specific legal rights which may vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on the duration of an implied warranty, so those limitations may not apply to you.

**Note:** No responsibility is assumed for the presence of interference outside of Amphony's control, such as other transmitters or cordless phones, which may hamper proper signal reception.