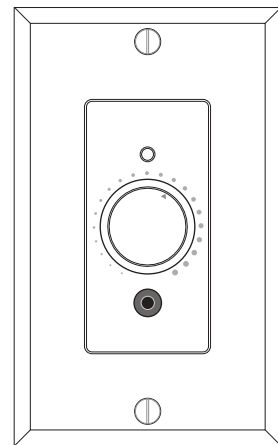




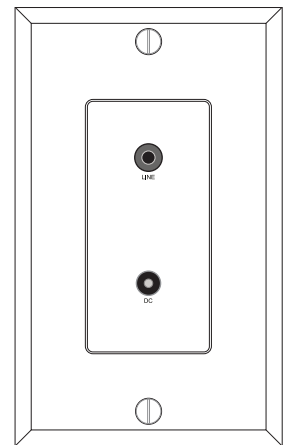
The Sound That Will Move You

BTA-250 & IWS

Installation Guide



BTA-250



IWS

Products sold separately



The Sound That Will Move You

Earthquake Sound reserves the right to amend details of the specifications without notice
© Copyright Earthquake Sound Corporation
www.earthquakesound.com

Earthquake Sound Corporation
2727 McCone Ave. Hayward, CA 94545
US Toll Free: 1-800-576-7944 Tel: 510-732-1000 Fax: 510-732-1095
www.earthquakesound.com

Table of Contents

Introduction	3
BTA-250	
Overview	4
Connection Diagram	5 - 6
Installation Diagram	7
Specifications	8
IWS	
Overview	9
Connection Diagram	10
Installation Diagram	11
Specifications	12
Warranty Information	13
Notes	14 - 15

Earthquake Sound Corporation
2727 McCone Ave. Hayward,
CA 94545. USA
Tel: 510-732-1000
Fax: 510-732-1095



© 2019 Earthquake Sound Corporation. All rights reserved.

This document should not be construed as a commitment on the part of Earthquake Sound Corporation. The information is subject to change without notice. Earthquake Sound Corporation assumes no responsibility for errors that may appear within this document.

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.

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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirements. To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation

Notes

*Always check local building codes before installation.

Introduction

The BTA-250, an in-wall amplifier, and the IWS, an in-wall sender, pack flexibility, power and control all into one small, discrete package. Each BTA-250 comes with the in-wall amplifier unit, B120R retrofit electrical box, 24VDC power supply, and a cable adapter. The IWS unit is sold separately and does not include a B120R retrofit electrical box.

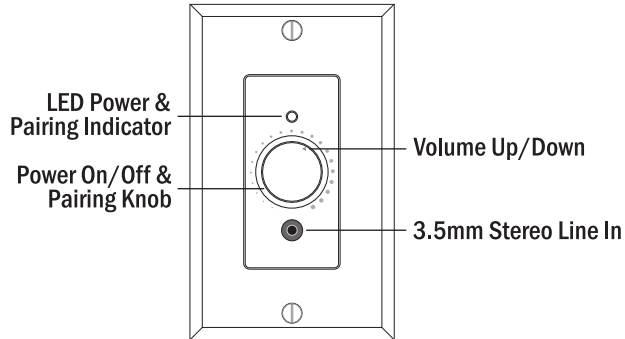
The BTA-250 two-channel stereo amplifier can accept signal through the front panel 3.5mm stereo mini jack or via Bluetooth® connection. It can produce 50 WRMS per channel at 4-Ohm. For added convenience, the BTA-250 also features a front mounted volume control knob.

Designed to fit in most standard single-gang junction box, the BTA-250 and IWS can be easily installed into any new or pre-existing constructions (homes, bars, restaurants, garages, hotel rooms, etc.). The BTA-250 and IWS makes listening to your favorite music or movies in any room easy with the push of a button.

Overview

BTA-250

(Item sold separately)



The volume knob of this BTA-250 amplifier also acts as the power and pairing button.

Press and hold the knob for 3 seconds to turn the amplifier on and off.

Simply press the volume knob to activate the pairing mode of the BTA-250 amplifier. This will disconnect any device connected to the amplifier and open the BTA-250 for pairing.

Input Hierarchy

1. 3.5mm stereo mini jack
2. Bluetooth®
3. CAT 5/6*

*3.5mm volume must be controlled at the source.

4 Specifications are subject to change without notice

Earthquake Sound warrants the original purchaser that all Factory Sealed New Audio products be free from defects in material and workmanship, under normal and proper use, for a period of one (1) year from the date of purchase (as shown on the original sales receipt with serial number affixed/written on it). The one (1) year warranty period is valid only if the product is properly installed by an Earthquake Sound authorized party and the warranty registration card is properly filled out and sent to Earthquake Sound Corporation. If the product is installed by a non-authorized party, a thirty (30) day warranty period applies.

(A) One (1) year limited warranty guidelines:

Earthquake pays for labor, parts and ground freight (US Mainland only) back to the customer.

(B) Warning:

Products (sent for repair) that are tested by Earthquake technicians and deemed to have no problem(s) will not be covered by the limited warranty. Customer will be charged a minimum of one (1) hour of labor (at ongoing rate) plus the shipping charges back to the customer.

(C) Earthquake agrees to repair or replace - at our discretion - all such defective products/parts subject to the following provisions:

Defective products/parts have not been altered or repaired by other than an Earthquake factory approved technician.

Products/parts are not subjected to negligence, misuse, improper use, or accident, damaged by improper line voltage, used with incompatible products, or have its serial number or any part of it altered, defaced or removed, or have been used in any way that is contrary to Earthquake's written instructions.

(D) Warranty Limitations:

Earthquake warranty does not cover products that have been modified or abused, including but not limited to the following:

Damages due to misuse, abuse or use of improper cleaning materials/methods

Bent frame, broken connectors, holes/cracked in wall plate, burnt parts

Fading, deterioration of components & finish due to improper exposure to elements

Burnt tracers on PCB

Product/part damaged due to poor packaging or abusive shipping conditions

Subsequent damage to other products

A warranty claim will not be valid if the warranty registration card is not properly filled & returned to Earthquake with a copy of the sales invoice.

(E) Service Request:

To receive product(s) service, contact Earthquake Sound's service department at (510) 732-1000 or tech@earthquake-sound.com and request an RMA (Return Material Authorization) number as item(s) shipped without a valid RMA number will be refused. Make sure you provide us with your complete and correct shipping address, a valid daytime phone number, and a brief description of the problem you are experiencing with the product. In most cases, our technicians might be able to resolve the problem over the phone or via e-mail, thus eliminating the need to ship the product.

(F) Shipping Instructions:

Product(s) must be packaged inside its original protective box(es) to minimize transportation damage. Shipper claims regarding items damaged in transit must be presented to carrier. Earthquake Sound Corporation reserves the right to refuse improperly packaged product(s). A copy of the original sales receipt must accompany the product(s) returned for service. Ship the product(s) to:

Earthquake Sound Corporation, 2727 McCone Avenue, Hayward, CA 94545

The customer is responsible for the cost of shipping the product(s) to Earthquake Sound Corporation

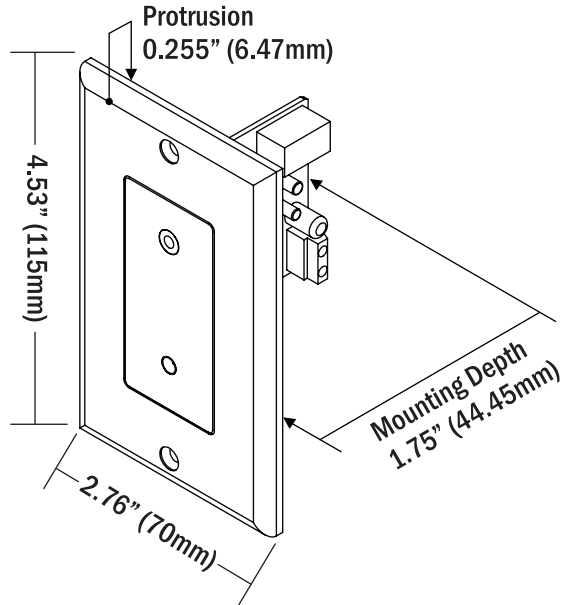
(G) Disputes Resolution:

All disputes - between clients and Earthquake Sound Corporation - resulting from the one (1) year limited warranty policy must be resolved according to the laws & regulations of the county of Alameda, California.

Specifications

IWS

(Item sold separately)

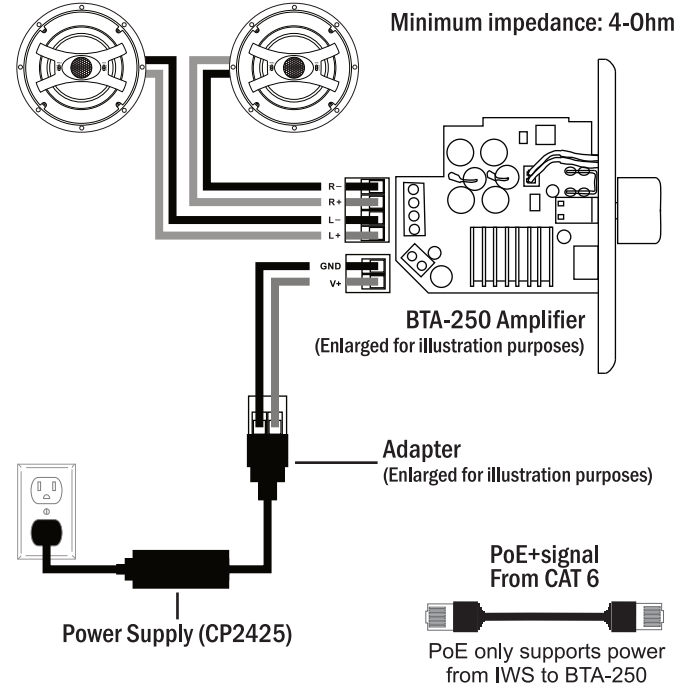


Audio Input	3.5mm Input
Output	4 Volts Balanced
Power Range	12 - 24VDC
S/N	105dBA

Connection Diagram

BTA-250

(Item sold separately)

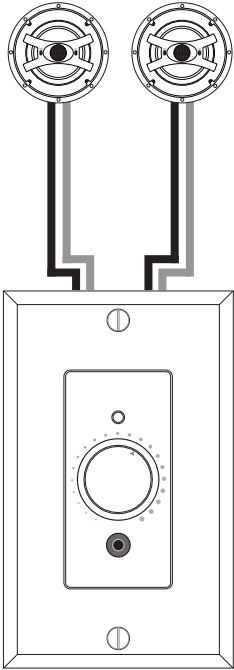


Use 24VDC/2.5A power supply for optimum performance & power output

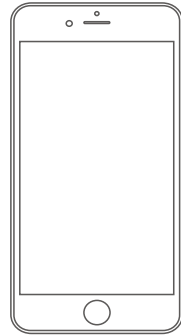
⚠ WARNING: Do not use below 4-Ohm stereo

Connection Diagram

BTA-250 (Item sold separately)



BTA-250

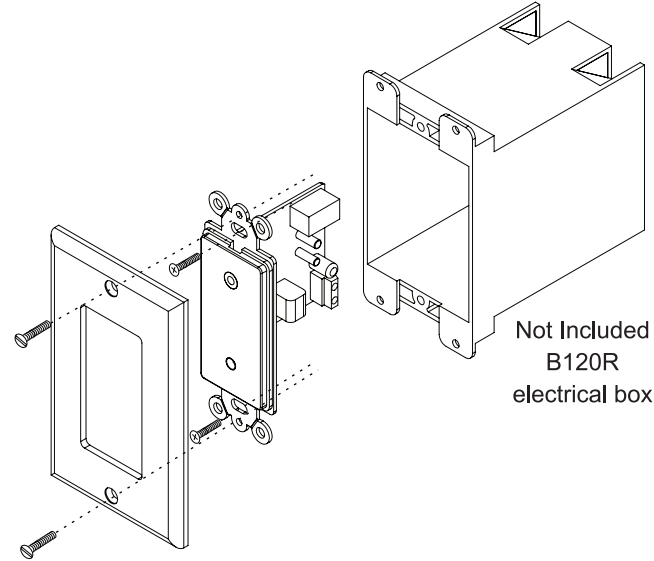


Once with BTA-250 is powered on, press the volume knob to activate the pairing mode. From your mobile device, you can then find your Bluetooth® settings to pair to the BTA-250.

Installation

IWS (Item sold separately)

⚠ For your safety, the IWS MUST BE INSTALLED BY A LICENSED CONTRACTOR/ELECTRICIAN.

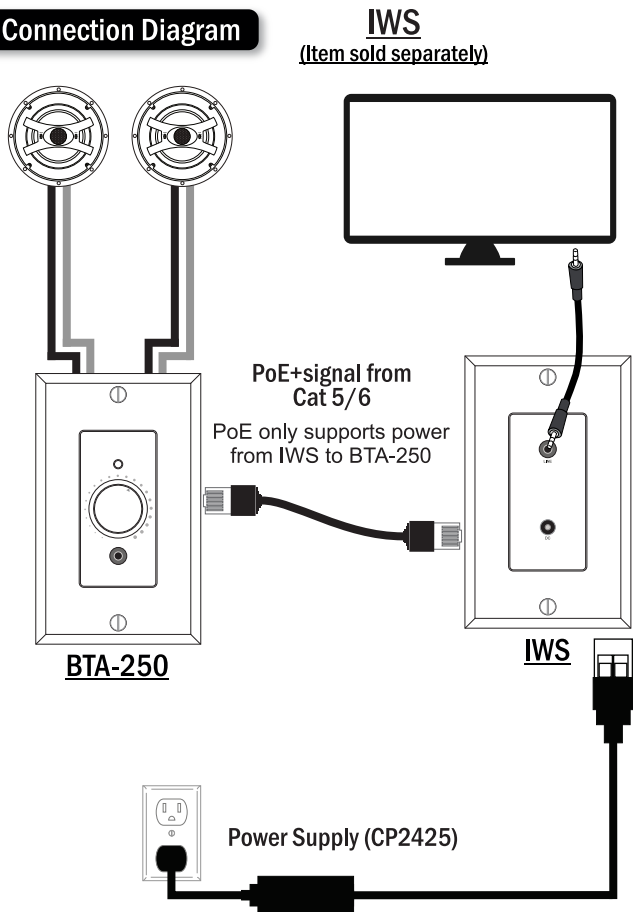


Not Included
B120R
electrical box

⚠ For your safety, An ELECTRICAL BOX MUST BE USED.

Suggested model no. B120R. Also available at your local hardware stores.

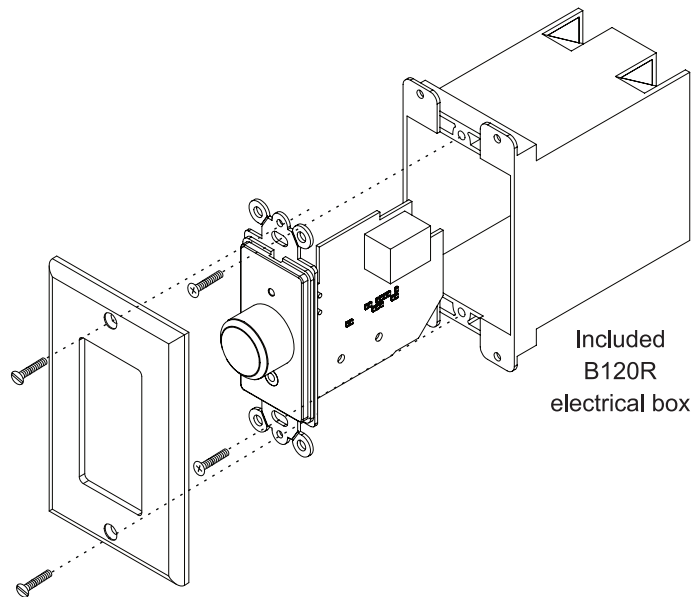
Connection Diagram



Installation

BTA-250 (Item sold separately)

⚠ For your safety, the BTA-250 MUST BE INSTALLED BY A LICENSED CONTRACTOR/ELECTRICIAN.

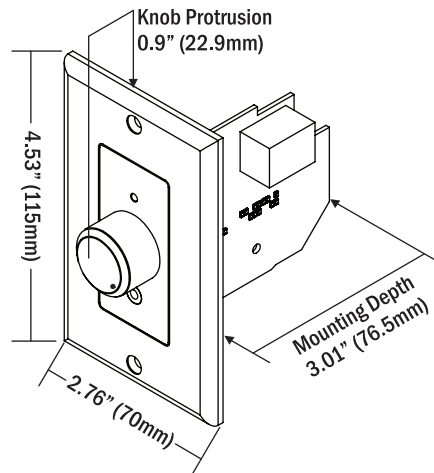


⚠ For your safety, THE PROVIDED ELECTRICAL BOX MUST BE USED.

Suggested model no. B120R. Also available at your local hardware stores.

Specifications

BTA-250 (Item sold separately)

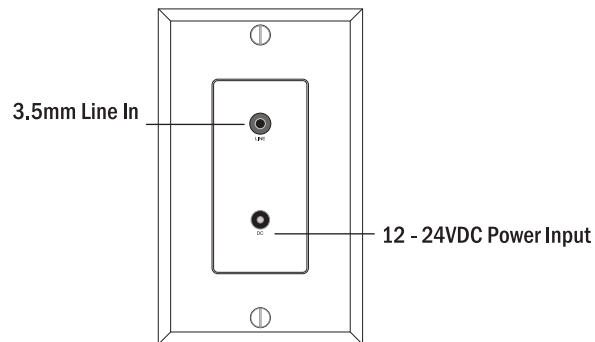


Output Power	2 x 50 WRMS @ 4-Ohm 2 x 25 WRMS @ 8-Ohm
Freq. Response	20Hz - 20kHz
THD	< 0.1% @ 1kHz
Signal-to-Noise	95 dB @ 4-Ohm 1kHz
Input Impedance	20kOhm
Input Sensitivity	.01 - 1 V
Wireless Range	Up to 32.8 feet (10m)
Power Supply	12 - 24VDC

Note: Do not wire the BTA-250 for a Mono output

Overview

IWS (Item sold separately)



The IWS receives an input signal from the 3.5mm Line In shown above. The IWS then sends the signal to the BTA-250 (sold separately) for amplification via a CAT 5/6 cable.

The IWS can be powered by either a CP2425 (sold separately) power supply that can be plugged into the front, or can be hard wired to the phoenix connector on the back of the unit.

By using a CAT5/6 cable, the IWS will utilize Earthquake's HVBT (High Voltage Balanced Transport) to send the signal to the BTA-250 making it virtually immune to input signal noise. The CAT 5/6 cable can also send power from the BTA-250 to the IWS.

Note: Earthquake uses a proprietary CAT 5/6 port configuration. Configuration is available upon request.