



150W Portable PA System with Bluetooth



Intro

You've got an H&A masterpiece!

This is the 150W class D portable acoustic system for audio talent at private parties to clubs, single mic DJ performers to duo mic big-band blast, foot-stomping music to dreary announcements - with true Remote Control and multi-speaker theatrical coverage. The 5-inch driver fills the space with rich and pure sound to make sure they know you are there!

Have it all... Master mic and line-level signals, Aux Stereo input for CD, DVD, plus mini-plug for an MP3 or Smartphone. Features creative tone shaping with an integrated Mixer with EQ and effects. It's all about creative control for the road without a hint of compromise.

Stand up and take a bow.

Safety First

- ▶ Please read this manual and follow the instructions. Keep the guide where you can refer easily.
- ▶ Carefully inspect the product for missing elements.
- ▶ This unit is not waterproof. Exposure to moisture, flammable liquids, and gases can cause irreparable damage.
- ▶ Do not place the unit close to heat-producing sources that could damage the casing or circuitry.
- ▶ Power off before disconnecting or plugging it into a power source.
- ▶ High sound levels for any period can cause permanent hearing loss. Be careful to select a suitable and safe volume. It's not fun to say "what."
- ▶ The unit should be kept clean with a soft, dry microfiber cloth.
- ▶ H&A will not honor warranty claims on equipment that has been disassembled or tampered.

Included items

H&A 150W Portable PA System Front Panel Guide

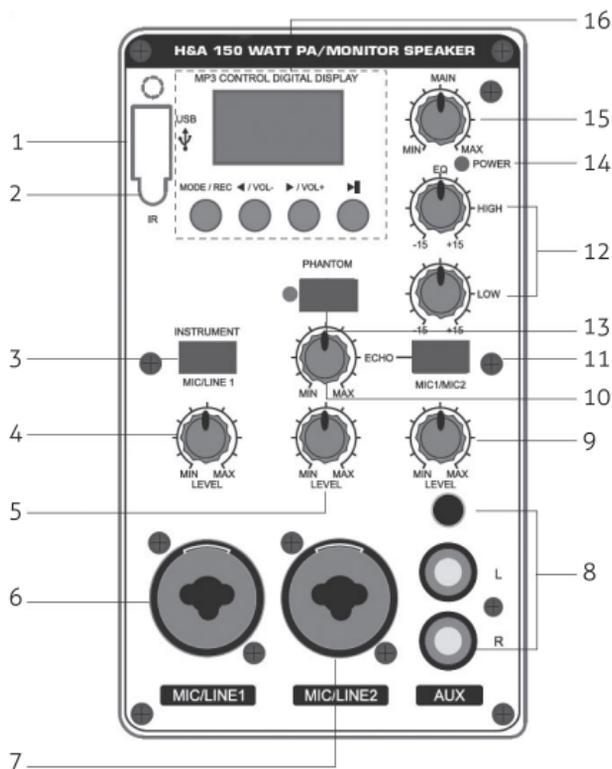
Microphone Boom Arm Adapter

Mic Stand Adapter Mount

AC Power Cord

Remote Control

Front Panel Guide



1. USB

Connect a USB Flash Drive for MP3 storage and playback.
Record and store the output of any session to a USB device.

2. IR Sensor

Receives line of sight infrared wireless command signals from the remote.

3. Instrument

Default (out) position for standard balanced Mic/Line 1 input.
Press the button once to convert the Mic/Line 1 [7] to an unbalanced high impedance instrument input for an electric guitar or bass without a direct box.

4 & 5. Mic/Line 1 and 2 Input Gain Level

Varies the gain of the mic or line for the level of each channel.

6 & 7. Mic/Line (Channel 1 / Channel 2) Inputs Ports

Multiple function port accepts balanced signals from XLR mic cables, 1/4 inch balanced or unbalanced cables.

8. Aux Input

RCA jacks accept linear line-level input from 2 channel input from stereo tuners, DVD players, or other line-level devices.

The **3.5mm jack** accepts a TRS 2 channel mini-plug connection from Smartphones, MP3 players and digital recorders.

9. Aux Input Gain Level

Adjusts the gain of the devices connected to the RCA or 3.5mm mini-jack

10. Echo

Varies the amount of echo/reverb that applies to Channel 1 or 2 inputs. No echo is added to Aux input device signals.

11. Echo Mic1/Mic2 Button

Out position applies an echo to both mic channels, 1 and 2.

In position adds the echo effect only to channel 2.

12. Two Band Equalization (EQ)

Cuts or boosts the high and low frequencies up to 15dB.

High range (12kHz) brightens treble, for sparkling vocals and attenuates clarity.

Low range (80Hz) reinforces depth to bass sources such as percussion instruments and bass guitars. Richens baritone vocalists.

13. Phantom Power Switch and Indicator

Provides +48 volts of phantom power to unpowered connected condenser microphones. The LED indicator lights when activated.

14. Power Indicator

15. Main Level Knob

Controls the master volume output.

16. MP3 Function and LCD Panel

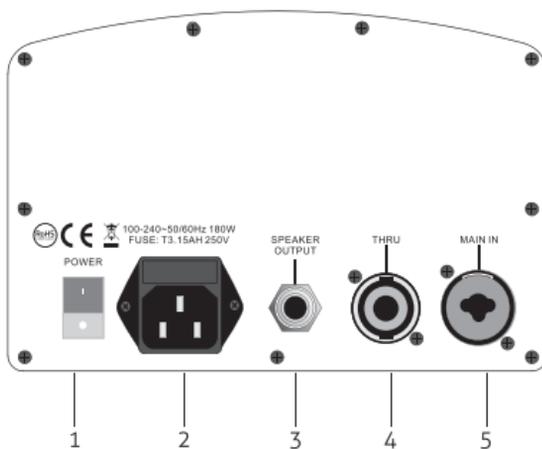
Mode/Rec. Press the button briefly to scroll through Bluetooth, Record or MP3 modes. The H&A 150BT enters MP3 mode automatically and plays stored files when a device plugs into the USB port [1].

<Vol- Press briefly to play the previous track or restart the current one. Press and hold to lower the MP3 volume.

>Vol+ Press briefly to skip to the next selection. Press and hold to increase the MP3 device volume.

>|| Press once to pause or resume the playback. Double press to switch between MP3 stored files and Mp3 files recorded by the 150BT.

Rear Panel



1. Power Switch

2. AC Power Cord Socket

3. Speaker Output

Serves to deliver the sound to an 8Ω or greater speaker.

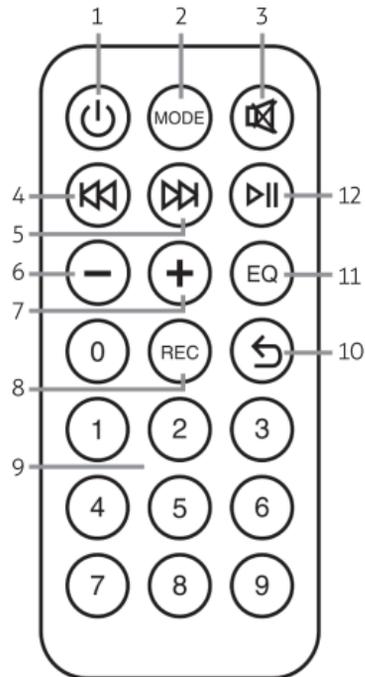
4. THRU

The THRU jack accepts a female XLR connection. The THRU jack bridges another 150-BT together or a second speaker. Signals from devices connected in this socket combine from Main Level or EQ with the signal from Main In [5].

5. Main In

The Main In jack accepts an XLR male or a 1/4-inch balanced TRS connection. This input connects the audio from the THRU connector of another 150BT. The signal from the Main mixes with the audio signal from the other inputs.

Remote Control



The remote supports USB devices, SD cards with MP3, and WMA file formats.

1. **ON/OFF.** Press to operate MP3 functions.
2. **MODE.** Press to switch between USB, Bluetooth and Recording modes. When a flash drive is connected, the MP3 mode appears on the menu.
3. **Mute.**
4. **Back.** Press to return to the previous track. Hold down to rewind.
5. **Forward.** Press to skip to the next track. Hold down to fast forward.

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6. **Volume down.** Press and hold to lower the volume.
 7. **Volume up.** Press and hold to raise the volume.
 8. **Record.** Press to start recording. Press and hold to stop recording.
 9. **Track select.** Press a number 1-9 to select the matching audio file. For tracks numbered higher than 9, press the  (FAST FORWARD) button.
 10. **MP3 Playback.** Press to select a playback option for MP3 files.
 11. **EQ.** Press to select an EQ preset.
 12. **Pause.** Press to pause and resume playback. Double press to select a folder.

Selecting a Mode

USB/MP3, Bluetooth and Record Modes are accessed by the Mode/Rec button [17] on the 150BT Front Panel or the Mode button [2] on the Remote Control.

USB/MP3 Mode Functions:

The 150BT automatically plays all MP3 files that are stored on an inserted Flash Drive in sequence until stopped or paused.

Select a Folder

Long press the **Mode/Rec** button to display files/folder list. Press **<Vol- / >Vol+** to scroll and select the previous or next folder. After the selection, play automatically starts after 6 seconds.

Double press **▶||** to switch between the stored files and the connected MP3 device - or long-press **▶||** on the remote control to switch.

Bluetooth Functions:

Link the 150BT through Bluetooth to play any files on your Smartphone or tablet.

Here are the steps to activate the feature on the 150BT Front Panel:

1. Press the Mode/Rec button on the 150BT [17] to scroll through modes until Bluetooth appears on the LCD.
2. Enable Bluetooth on your device. Search for **TB7** on the device list and confirm for automatic pairing. No password is required. BT Connected appears on the LCD.
3. Set the source selection to USB/MP3.

All choices for playback are controlled from the front panel of the 150BT or the Remote.

Record functions are disabled in Bluetooth Mode.

The Remote enables Bluetooth the same way as the Front Panel procedure, using the Mode button [2] to set the selection. Wait for the on-screen confirmation that Bluetooth is linked on the 150BT.

Record:

The 150BT records any audio signal directed to the main output. The amount of space designated for recordings made on the 150BT depends entirely on the storage size of the device you add to the USB port. No files are ever saved on the 150BT.

A recording is not possible in Bluetooth or MP3 playback modes.

Here are the steps to activate the Record feature on the 150BT Front Panel:

1. Connect a Flash Drive/USB device to the USB port [1] on the Front Panel.
2. Press the **Mode/Rec** button on the 150BT [17] to scroll through modes until Record appears on the LCD.
3. Set the source selection to **Main**. Any other selection will not record sound.
4. Connect instruments or other playback devices to the 150BT. Set the gain level per channel and add echo to your liking.
5. Long press **Mode/Rec** [17] to record from the 150BT output. The elapsed recording time displays on the LCD. Short press the **Mode/Rec** button to stop the recording and play saved files.

Do not press the Main/USB button during recording to avoid unwanted noise or corruption of the recorded file.

MP3 files are automatically created by the 150BT in new folders on your connected USB device. Each file is numbered consecutively according to the time of the track. As with all folders accessed on this system, they are played in numerical order and can be navigated after a double press of the  button on the Front Panel or the Remote.

All of the Record mode features are similarly accessed on the **Remote Control** once the Record mode is directed to appear on the Front Panel using the **Mode** button [2]. Press **REC** [8] to start recording. Press and hold the REC button to stop the recording and save the file.

Playback of audio recorded by the H&A 150BT

The 150BT creates a folder on your USB drive and places all of the recorded MP3 files within. The RECORD folder is visible and accessible on a computer. To play the recorded files while attached to the 150BT, follow this procedure:

1. In MP3 mode, double press the  button. The first file in the folder will play within 3 seconds.
2. Press and hold the Mode/Rec button until the current track is highlighted on the LCD panel.
3. Press the  or  button to scroll through files in the folder. Rest on the select file. Play commences in 3 seconds.
4. Double press on the  button to return to the MP3 folder list. The last saved track selected will begin to play.

Playback of audio recorded by the H&A 150BT via the Remote Control

1. Press the  button briefly to play and pause.
2. Press  to return to the previous track. Press and hold to rapidly rewind.
3. Press  to skip forward to the next track. Press and hold to fast forward.
4. Press any number 1-9 to play the corresponding track. For tracks numbered beyond 9, use the  button to select your file.

Remote Control Playback Options

Select all recorded and pre-recorded MP3 files by double-pressing the  button.

Press the MP3 Playback button [10] repeatedly to select a playback option:

1. **RPT ALL** repeats all the tracks on the current folder.
2. **RPT ONE** repeats the current track.
3. **RANDOM** plays the files in the folder randomly.
4. **INTRO** plays a clip of the first ten seconds of each file. Upon completing the folder preview, playback reverts to RPT ALL to play each MP3 in the folder.

Remote Control EQ Presets

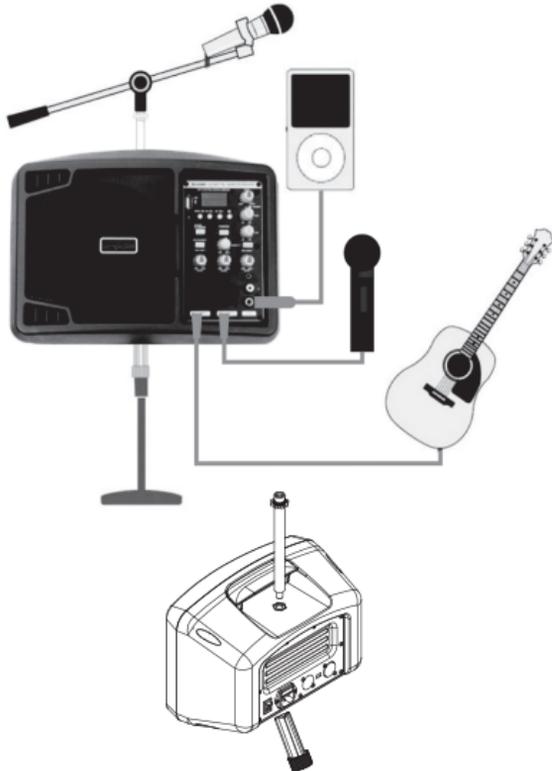
There are five presets for sound profiles that shape the sound you hear from the 150BT: Pop, Rock, Jazz, Classic, Country, and Normal.

Press the EQ button [11] to scroll through the options to apply to the sound output. Select Normal for an unbiased flat response.

Using the 150BT

1. Prepare the unit for use by turning all of the levels to a minimum setting.
2. Check all connections for firmness.
3. Power up all the external devices.
4. Connect the 150BT to an AC power source [2]. Switch the power ON [1]. The LED indicator lights up.
5. Set the Main level to a mid-position.
6. Play a test audio source or speak into a live mic at a normal level.
7. Adjust Level to the target volume, flavor the EQ to taste, and return to the Main level for the finishing touches.
8. Perform! Take a bow!

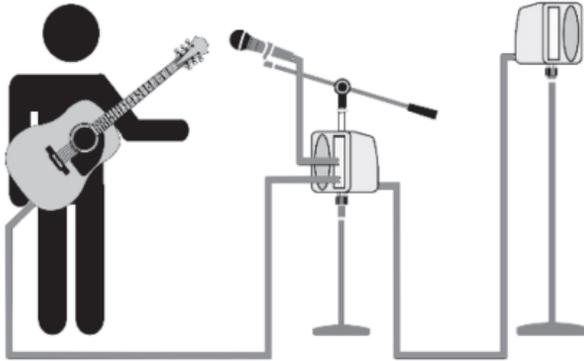
Single Speaker Setup



The H&A 150BT is excellent as a personal speaker to amplify your voice, instrument or pre-recorded file or to use as a monitor.

1. The mic stand adapter mount screws onto a stand's 5/8 or 1/4 inch threaded post. Remove the bushing if necessary.
2. Screw the mic boom adapter onto the 1/4 inch socket found on the top of the 150BT. Tighten the locking collar to secure.
3. Match and join the adapter socket on the bottom of the 150BT to the mic stand adapter.
4. Attach a mic boom arm onto the mic boom adapter.

Two Speaker Setup



Two 150BT units serve as a PA speaker and as a monitor for the performer.

1. Repeat the setup described above.
2. Plug an XLR female plug into the Thru jack [4], and run the other end of the cable to the Main In jack [5]. The cable end can be an XLR male or ¼ inch balanced TRS.

Passive PA and Monitor Setup

1. Repeat the setup for the mic as the Single speaker setup above.
2. Link the two units together with a ¼ inch male speaker cable through the Speaker Out jack to a PA speaker.

Specifications

Output RMS: 60W @ 8Ω / 120W @ 4 Ohms
Peak: 75W @ 8Ω / 150W @ 4 Ohms

Speaker Dimension 5in /12.7cm

Input Sensitivity Line 1/2: -40dBu ±2 dBu (mic)
-22dBu ±2 dBu (line)
Line 3 (RCA): -10 dBu ±2 dBu
Main: 0 dBu ±2 dBu (mic)
0 dBu ±2 dBu (line)

Compression 20dBu

Input Impedance 20k Ω

Channel Level Control ∞ to +30dB

Max Input Level 20dB

Phantom Power +48v

Frequency Response	-10 dB: 80 Hz – 14 kHz -3 dB: 100Hz – 10 kHz
Maximum SPL	114 dB @ 1m
EQ	High (12kHz) / Low (80 Hz): 15dB ±3 dBu
Connection	Thru: XLR, Mic/Line switchable Main: XLR and ¼" TRS
Power Supply	Input voltage: 100 – 240VAC (3.15AH 250V)
Power Consumption	180W
Dimensions	8.4 × 11.4 × 6.7 in / 21.5 × 29.0 × 17.0 cm
Weight	6.2 lbs. / 2.8 kg

Troubleshooting

Problem	Solution
The AC power cable is plugged in, but there is no power.	<ul style="list-style-type: none">• Check that the AC power cable is completely plugged into the wall sockets. Seat the AC power cable firmly into the• Check that the wall outlet is live.• Confirm that the power switch is in the ON position, and the power indicator illuminates.• Check the fuse in the rear of the unit at the power cord socket.
No sound or the volume is too low.	<p>Turn down the main volume on the 15OBT before troubleshooting.</p> <ul style="list-style-type: none">• Make sure all cables are completely connected at both ends.• Check the main level is high enough.• Check the input device gain levels.• The volume control of your connected input device is turned up.• Is the mute is engaged on the remote?• The microphone on/off switch must be powered on.
The sound is too loud or distorted.	<ul style="list-style-type: none">• Turn down the main level.• Turn down the volume control of your input device.• Turn down the input gain level of the channel input that is distorted.

Problem	Solution
Audio doesn't sound right.	<ul style="list-style-type: none"> • Use the EQ button on the Remote Control to make sure the EQ is set to NORMAL. • Dial the high and low EQ dials to the center position, and adjust the audio levels.
There is audible noise or hum.	<ul style="list-style-type: none"> • Dial the main volume all the way down. If the noise or hum disappears, the problem is coming from one of the input devices. • Keep the cables from your input devices far from AC, lighting cords or other devices that can create signal interference harmonics. • A 60 Hz hum, ground loop, may be present on the line. Insert a hum eliminator in the signal circuit before the input socket of the 150BT, or introduce an AC hum eliminator on the power cable of the input device creating the hum. • A direct box ground-lift button may eliminate any hum on the line.

Problem	Solution
<p>A flash drive is connected to the USB port, and/or the MP3 is playing, but there is no sound output.</p>	<ul style="list-style-type: none"> • Check the main volume level. • Be sure that the source selector is switched to USB/MP3. • Try another track. Perhaps the MP3 is a blank audio file.
<p>A working Smartphone is connected to the AUX input, but there is no sound output.</p>	<ul style="list-style-type: none"> • Check the USB cable connections at both ends. • Check to see if the MAIN volume on the 150BT is high enough. • Check the volume control on your Smartphone. • The source selector must be set to USB/MP3. • Is the mute is engaged on the remote?

One Year H&A Limited Warranty

H&A warrants to the original purchaser that your H&A product shall be free from defects in material and workmanship for the period of one (1) year from the date of purchase (or delivery as may be required in certain jurisdictions), or thirty (30) days after replacement, whichever comes later.

H&A's entire liability and your exclusive remedy for any breach of warranty shall be, at H&A's option, to repair or replace the hardware, provided that the hardware is returned to the point of purchase or such other place as H&A may direct with a copy of the sales receipt or dated itemized receipt. H&A may, at its option, replace your product, offer to provide a functionally equivalent product, or repair any product with new, refurbished or used parts as long as such parts are in compliance with the product's technical specifications. Any replacement hardware product will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer, or for any additional period of time that may be applicable in your jurisdiction. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover problems or damage resulting from accident, abuse, misapplication, or any unauthorized repair, modification or disassembly, improper operation or maintenance, normal wear and tear, or usage not in accordance with product instructions or connection to improper voltage supply, use of consumables, such as replacement batteries, not supplied by H&A, except where such restriction is prohibited by applicable law.

Except where prohibited by applicable law, this warranty is nontransferable and is limited to the original purchaser and the country in which the product was purchased. This warranty gives you specific legal rights, and you may also have other rights, including a longer warranty duration that may vary under local laws. To start a warranty claim contact the H&A Customer Service Department to obtain a return merchandise authorization (“RMA”) number, and return the defective product to H&A, along with the RMA number and proof of purchase.

Question About Our Product Line? Need Product Support?

We are proud of our products and celebrate our customers. We are with you, from product selection to everyday use. Be secure with your purchase and reach us as you need.

Email us: brands@adorama.com

Call us: 212-647-9300

Our address: Adorama Brands, 42 West 18th Street, New York, NY 10011

You can always contact us at BRANDS@ADORAMA.COM for personal technical support. Our web site contains a wide range of Support and FAQ pages with valuable technical assistance.

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