



Definitive Technology A90 High-Performance Height Speaker-Complete Features/User Instruct

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Definitive Technology A90 High-Performance Height Speaker



Specifications

- **Product Dimensions**

13 x 6 x 3.75 inches

- **Item Weight**

6 pounds

- **Speaker Type**

Surround

- **Recommended Uses For Product**

Home Theater, Construction

- **Mounting Type**

Ceiling Mount

- **DRIVER COMPLEMENT**

(1) 4.5" driver, (1) 1" aluminum dome tweeter

- **SUBWOOFER SYSTEMS DRIVER COMPLEMENT**

none

- **FREQUENCY RESPONSE**

86Hz-40kHz

- **SENSITIVITY**

89.5dB

- **IMPEDANCE**

8 ohms

- **RECOMMENDED INPUT POWER**

25-100W

- **NOMINAL POWER**

(1% THD, 5SEC.) none

- **Brand**

Definitive Technology

Introduction

The A90 height speaker module is your answer for incredible, immersive, room-filling sound, allowing you to immerse yourself in genuine home theatre. The A90 supports Dolby Atmos / DTS:X and effortlessly attaches and sits on top of your Definitive Technology BP9060, BP9040, and BP9020 speakers, shooting sound upwards and back down to your viewing area. The design is timeless and simplistic. This is how obsessiveness sounds.

What's In the Box?

- Speaker
- Manual

SAFETY PRECAUTIONS

CAUTION

To reduce the risk of electric shock and fire, do not remove the cover or back plate of this device. There are no user-serviceable parts inside. Please refer all servicing to licensed service technicians. Avis: Risque de choc électrique, ne pas ouvrir.

CAUTION

The international symbol of a lightning bolt inside of a triangle is intended to alert the user to uninsulated "dangerous voltage" within the device's enclosure. The international symbol of an exclamation point inside of a triangle is intended to alert the user to the presence of important operating, maintenance, and servicing information in the manual accompanying the device.

CAUTION

To prevent electrical shock, match wide blade of plug to wide slot, fully insert. Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

CAUTION

To reduce the risk of electrical shock, do not expose this equipment to rain or moisture.

1. READ INSTRUCTIONS

All safety and operating instructions should be read before operating the device.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the device and in the operating instructions should be adhered to.

4. FOLLOW INSTRUCTIONS

All operating and safety instructions should be followed.

5. WATER & MOISTURE

The device should never be used in, on, or near water for the risk of fatal shock.

6. VENTILATION

The device should always be located in such a way that it maintains proper ventilation. It should never be placed in a built-in installation or anywhere that may impede the flow of air through its heat sink.

7. **HEAT**

Never locate the device near heat sources such as radiators, floor registers, stoves, or other heat-generating devices.

8. **POWER SUPPLY**

The device should only be connected to a power supply of the type described in the operating instructions or as marked on the device.

9. **POWER CORD PROTECTION**

Power cables should be routed so they are not likely to be stepped on or crushed by items placed on them or against them. Special attention should be paid to areas where the plug enters a socket or fused strip and where the cord exits the device.

10. **CLEANING**

The device should be cleaned in accordance with the manufacturer's instructions. We recommend using a lint roller or household duster for the grille cloth

11. **PERIODS OF NON-USE**

The device should be unplugged when not being used for extended periods of time.

12. **DANGEROUS ENTRY**

Care should be taken that no foreign objects or liquids fall or are spilled inside the device.

13. **DAMAGE REQUIRING SERVICE**

The device should be serviced by licensed technicians when:

The plug or power supply cord has been damaged.

Objects have fallen on or liquid has spilled inside the device.

The device has been exposed to moisture.

The device does not appear to be operating properly or exhibits a marked change in performance.

The device has been dropped or the cabinet becomes damaged.

14. **SERVICE**

The device should always be serviced by licensed technicians. Only replacement parts specified by the manufacturer should be used. The use of unauthorized substitutions may result in fire, shock, or other hazards.

POWER SUPPLY

1. The fuse and power disconnect device are located on the back of the speaker.
2. The disconnect device is the power cord, detachable at either the speaker or the wall.
3. The power cord must be disconnected from the speaker before servicing.

This symbol on our electrical products or their packaging indicates that it is forbidden in Europe to discard the product in question as domestic waste. In order to ensure that you dispose of the products correctly, please dispose of the products according to local laws and regulations on the disposal of electrical and electronic equipment. In doing so you are contributing to the retention of natural resources and to the promotion of environmental protection by the treatment and disposal of electronic waste.

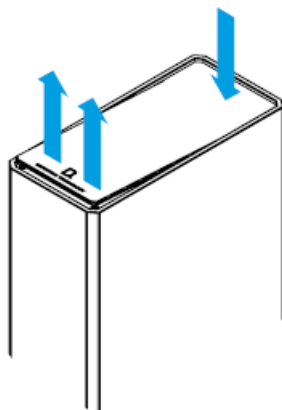
Unpacking Your A90 Elevation Speaker Module

Please unpack your A90 elevation speaker module carefully. We recommend saving the carton and packing materials in case you move or need to ship your system. It is important to save this booklet, as it contains the serial number for your product. You can also find the serial number on the back of your A90. Each loudspeaker leaves our factory in perfect condition. Any visible or concealed damage most likely occurred in handling after it

left our factory. If you discover any shipping damage, please report this to your Definitive Technology dealer or the company that delivered your loudspeaker.

Connecting the A90 Elevation Speaker Module to Your BP9000 Loudspeakers

Using your hands, gently push down on the back of the magnetically-sealed aluminum top panel of your BP9000 speaker (Figure 1). Set the top panel aside temporarily and/or put it away for safekeeping. We've designed your BP9000 speakers for the ultimate in design flexibility. So, feel free to keep the A90 module connected permanently if it's connected placed, or remove it at the completion of each viewing experience.



Correctly align and place the A90 elevation speaker module within the top of your BP9000 speaker. Press down evenly to ensure a tight seal. The connector port on the inside perfectly mates with the connector plug on the underside of the A90 module (Figure 2).

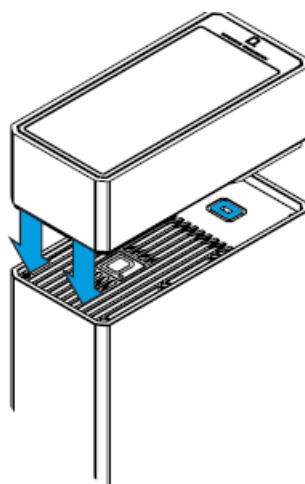
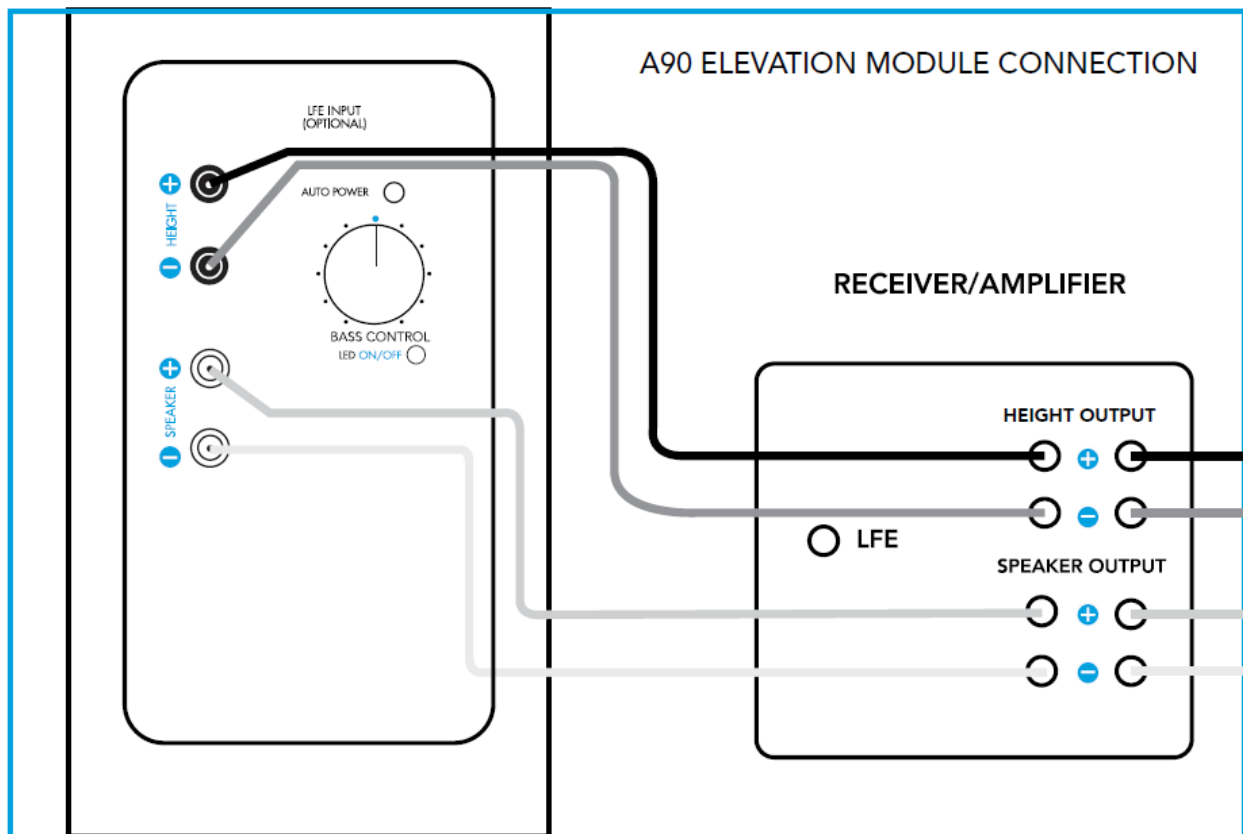


FIGURE 2 | A90 Placement

Connecting Your A90 Elevation Module

Now, run speaker wire from any compatible Atmos or DTS:X receiver binding posts (often titled HEIGHT) to the top set of binding posts (titled: HEIGHT) on the bottom, rear side of your BP9000 speakers. Be sure to match + to +, and – to –.



Note

The A90 elevation speaker module for your BP9000 speakers requires a Dolby Atmos/DTS: X-enabled receiver and is maximized by Dolby Atmos/DTS: X-encoded source material. Visit www.dolby.com or www.dts.com for more information on available titles.

Ceiling Height for the Optimal Dolby Atmos® or DTS:X™ Experience

It's important to know that the A90 elevation module is a height speaker that bounces sound off a ceiling and back toward your viewing area. With that in mind, your ceiling plays an important role in the experience.

To achieve the best Dolby Atmos or DTS:X experience possible

- Your ceiling should be flat
- Your ceiling material should be acoustically reflective (examples include drywall, plaster, hardwood or other rigid, non-sound absorbing material)
- The ideal ceiling height is between 7.5 and 12 feet
- The maximum recommended height is 14 feet

Receiver Setup Recommendations

To experience either revolutionary sound technology, you must have a way to play or stream Dolby Atmos or DTS:X content.

Note

please reference your receiver/processor owner's manual for complete directions, or give us a call.

Options to Play or Stream Content

1. You can play Dolby Atmos or DTS:X content from a Blu-ray Disc through an existing Blu-ray Disc player. Be sure you have a player that's fully compliant with Blu-ray specifications.
2. You can stream content from a compatible game console, Blu-ray, or streaming media player. In both cases, be sure to set your player to bitstream output

Note

Dolby Atmos and DTS:X are compatible with the current HDMI® specification (v1.4 and later). For more information, visit www.dolby.com or www.dts.com

Maximizing Your New Home Theater

While certified Dolby Atmos or DTS:X content will be maximized on your new system, nearly any content can be improved with the addition of your A90 height modules. For example, nearly all Dolby Atmos receivers feature a Dolby surround upmixer function that automatically adapts any traditional channel-based signal to the new, full capabilities of your system, including your A90 height modules. This ensures that you hear realistic and immersive three-dimensional sound no matter what you're playing. Please reference your receiver/processor owner's manual for complete information.

Technical Assistance

It is our pleasure to offer assistance if you have any questions regarding your BP9000 or its setup. Please contact your nearest Definitive Technology dealer or call us directly at (800) 228-7148 (US & Canada), 01 (410) 363-7148 (all other countries) or e-mail info@definitivetech.com. Technical support is offered in English only.

Service

Service and warranty work on your Definitive loudspeakers will normally be performed by your local Definitive Technology dealer. If, however, you wish to return the speaker to us, please contact us first, describing the problem and requesting authorization as well as the location of the nearest factory service center. Please note that the address given in this booklet is the address of our offices only. Under no circumstances should loudspeakers be shipped to our offices or returned without contacting us first and obtaining return authorization.

Definitive Technology Offices

1 Viper Way, Vista, CA 92081

Phone: (800) 228-7148 (US & Canada), 01 (410) 363-7148 (all other countries)

Troubleshooting

If you experience any difficulties with your BP9000 speakers, try the suggestions below. If you still have problems, contact your Definitive Technology Authorized Dealer for assistance.

1. Audible distortion when the speakers are playing at loud levels is caused by turning up your receiver or amplifier louder than the receiver or the speakers are capable of playing. Most receivers and amplifiers put out their full-rated power well before the volume control is turned all the way up, so the position of the volume control is a poor indicator of its power limit. If your speakers distort when you play them loud, turn the volume down!
2. If you experience a lack of bass, it is likely that one speaker is out of phase (polarity) with the other and needs to be rewired with closer attention to connecting positive to positive and negative to negative on both channels.

Most speaker wire has some indicator (such as color-coding, ribbing, or writing) on one of the two conductors to help you maintain consistency. It is essential to connect both speakers to the amplifier in the same way (in-phase). You may also experience a lack of bass if the bass volume knob is turned down or not on.

3. Make sure all your system interconnects and power cords are solidly in place.
4. Should you hear hum or noise coming from your speakers, try plugging the speakers' power cords into a different AC circuit.
5. The system has sophisticated internal protection circuitry. If for some reason the protection circuitry trips, turn off your system and wait five minutes before trying the system again. If the speakers' built-in amplifier should overheat, the system will turn off until the amplifier cools down and resets.
6. Check to be sure that your power cord has not been damaged.
7. Check that no foreign objects or liquid has entered the speaker cabinet.
8. If you cannot get the subwoofer driver to turn on or if no sound comes out and you are sure the system is set up properly, please bring the loudspeaker to your Definitive Technology Authorized Dealer for assistance; call first.

Limited Warranty

5-Years for Drivers and Cabinets, 3-Years for Electronic Components

DEI Sales Co., dba Definitive Technology (herein "Definitive") warrants to the original retail purchaser only that this Definitive loudspeaker product (the "Product") will be free from defects in material and workmanship for a period of five (5) years covering the drivers and cabinets, and three (3) years for the electronic components from the date of the original purchase from a Definitive Authorized Dealer. If the Product is defective in material or workmanship, Definitive or its Authorized Dealer will, at its option, repair or replace the warranted product at no additional charge, except as set forth below. All replaced parts and Product(s) become the property of Definitive. The product that is repaired or replaced under this warranty will be returned to you, within a reasonable time, freight collect. This warranty is non-transferable and is automatically void if the original purchaser sells or otherwise transfers the Product to any other party.

This Warranty does not include service or parts to repair damage caused by accident, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, the voltage in excess of the rated maximum of the unit, the cosmetic appearance of cabinetry not directly attributable to defects in material or workmanship. This warranty does not cover the elimination of externally generated static or noise, or the correction of antenna problems or weak reception. This warranty does not cover labor costs or damage to the Product caused by installation or removal of the Product. Definitive Technology makes no warranty with respect to its products purchased from dealers or outlets other than Definitive Technology Authorized Dealer.

THE WARRANTY IS AUTOMATICALLY VOID IF

1. The product has been damaged, altered in any way, mishandled during transportation, or tampered with.
2. The product is damaged due to accident, fire, flood, unreasonable use, misuse, abuse, customer applied cleaners, failure to observe manufacturers' warnings, neglect, or related events.
3. Repair or modification of the Product has not been made or authorized by Definitive Technology.
4. The product has been improperly installed or used.

The product must be returned (insured and prepaid), together with the original dated proof of purchase to the Authorized Dealer from whom the Product was purchased, or to the nearest Definitive factory service center.

The product must be shipped in the original shipping container or its equivalent. Definitive is not responsible or liable for loss or damage to Product in transit.

THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY THAT APPLIES TO YOUR PRODUCT. DEFINITIVE NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH YOUR PRODUCT OR THIS WARRANTY. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS, IMPLIED, WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED AND DISCLAIMED TO THE MAXIMUM EXTENT ALLOWED BY LAW. ALL IMPLIED WARRANTIES ON PRODUCTS ARE LIMITED TO THE DURATION OF THIS EXPRESSED WARRANTY. DEFINITIVE HAS NO LIABILITY FOR ACTS OF THIRD PARTIES. DEFINITIVE'S LIABILITY, WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY, OR ANY OTHER THEORY, SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT FOR WHICH A CLAIM HAS BEEN MADE. UNDER NO CIRCUMSTANCE WILL DEFINITIVE BEAR ANY LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES. THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DEFINITIVE SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA. DEFINITIVE RESERVES THE RIGHT TO MODIFY THIS WARRANTY STATEMENT AT ANY TIME.

Some states do not allow the exclusion or limitation of consequential or incidental damages, or implied warranties, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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We're delighted that you're part of our Definitive Technology family.

Please take a few minutes to register your product* so we have a complete record of your purchase. Doing so helps us serve you the best we can now and in the future. It also lets us contact you for any service or warranty alerts (if required).

Register here: <http://www.definitivetechology.com/registration>

No internet? Call Customer Service

M-F 9:30 a.m. – 6 p.m. US ET at (800) 228-7148 (US & Canada), 01 (410) 363-7148 (all other countries)

Note

the data we gather during online registration is never sold or distributed to third parties. A serial number can be found at the back of the manual

Frequently Asked Questions

• Do these speaker modules activate even without Dolby Atmos content?

It can when you activate all speakers on your receiver setting but if it's on auto it'll play when Dolby Atmos is detected.

• I have my front and center and 2 surrounds at +5db and what would be the best speaker level I should set my atmos speakers?

I have done much research and what I could find was +3 is the best setting for them. You want them in the middle of the db setting from front and rear so they are hear-able but certainly not drowning out either. I have found it hard to find movies that even have this technology yet.

• Do these have the traditional binding posts on the back? Or do they only work with the dt9000 series?

The A90 only works with the 9000 series. I had to return mine for A60 even though they show the A90 as the new replacement for the A60.

• I know this has been asked but is this listing definitely for two speakers? they for \$570 for one speaker at best buy, seems to good to be true?

I have these and the usual price is around \$600 for a pair. I got mine on sale (at Best Buy) for a little more than

half price. Wait for the sale, I like them but not for the full price.

- **Do you have to have a place on the back of your receiver to hook these up?**

Yes and no, the bp9000 series has 2 sets of inputs, one for the tower and the other set for these a90s, these attach or plug into the top of the tower speaker. For these to work there has to be a signal plugged into the tower.

- **Can you calibrate this once it's connected to the bp9020 with your Dolby atmos avs?**

It depends on your AV Receiver, but yes many do. However, it's usually not recommended to use auto calibration due to the bi-polar nature of the BP-9xxx series towers. Most calibration software can't handle the sound differences in bi-polar vs normal speakers, it just isn't programmed for it. Having said that, manual calibration is fine and makes a noticeable difference.

- **Does it come with one or two?**

They come in pairs, I do love mine however there is so little recorded with Atmos technology you may want to hold off for a little bit and see if the price comes down.

- **I have sts mythos speakers. can you use these separately on top of a bookcase?**

No, A90 is only compatible with BP9020, BP9040, and BP9060.

- **Will these work for the 2000 series BP towers?**

No sir unfortunately the BP2000 doesn't support the A90. The easy way to tell is the definitive technology speaker with the stainless-colored magnetic top is for the A90. If it is just the gloss black top then they do not.

- **I do not have a receiver with Dolby Atmos. my receiver has Dolby logic and thx home theatre. will the a90s work?**

A90s require another set of speaker inputs that plug into towers.... so I don't think your current receiver has enough speaker output, and if it won't decode Dolby Atmos, they won't work correctly.

<https://m.media-amazon.com/images/I/81xpvYa3NqL.pdf>