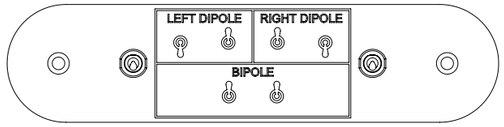
## BIPOLE / DIPOLE CONFIGURATION

The ES-HT950-IWSURR-6 has been engineered to provide an enveloping rear soundstage for your home theater. To maximize the system's performance, there are settings to adjust the speaker to your specific application.

- **DIPOLE MODE** – If the rear or side speakers are nearer than 8' to the listener a DIPOLE setting should be used to diffuse the sound and create an enhanced sense of space. Separate settings are used for left and right surround channels to enhance this effect. For side channel applications, match the switches to the speaker placement (left or right). If the speaker is installed on the back wall as a rear or back channel, to maintain proper system polarity the left/right settings should be reversed. For example, the left back speaker would be set to RIGHT DIPOLE.
- **BIPOLE MODE –** If the rear or side speakers are further than 8' from the listener, the BIPOLE setting may be used since the room itself will create a broad soundstage. There is no difference between left and right when used in BIPOLE mode.

Due to the distance considerations listed above, it is common in many 7.1 systems to configure the side channels as DIPOLE and the rear channels as BIPOLE.




## CONNECTING AND CHECKING SPEAKER PHASE

To ensure proper speaker connections, perform the following steps:

1. At each loudspeaker connection, ensure that at least 2 inches of each conductor are separated. Strip away 1/4 inch of insulation from each conductor. Connect the appropriate conductor to each five-way binding post observing correct polarity.

   If you connect your speakers out of phase, one loudspeaker will be playing at the opposite 'time' as the other, which will result in sound that lacks bass and sounds "warbly" or "distant" with vocals. If you suspect the sound is not right and you cannot see any markings on the wire to verify polarity is correct, try this simple test:

   - Sit between the loudspeakers and play some music with your receiver set to Mono.
   - Listen to the bass. Is it full or thin? Listen to volume of the bass as well.
   - Turn off your receiver and reverse the connections for one of the speakers.
   - Repeat your test at the same volume level. When the sound has the loudest and best sounding bass and also sounds best in the vocal region, your connections are correct and in-phase.

2. Connect the other end of the loudspeaker wires to the home theater receiver (or amplifier) and loudspeakers in the same way.
3. Turn on the home theater receiver and calibrate all loudspeakers in the system according to the receiver (or surround processor) manufacturer's instructions.

## PAINTING

The speaker grill can be painted to match the wall color. Only paint the grill when it has been removed from the speaker. Remove the scrim cloth on the back of the grill before painting and reapply after painting. The cloth is adhered using repositionable spray adhesive. No need to add any adhesive when reapplying.

The grill should be painted with great care taken not to clog the fine holes with paint.
Options for painting are:

- Spray paint ('dust') several thin layers instead of a few thick layers.
- Use a 'dry' brush or roller to minimize the amount of paint applied in each layer.

## TROUBLESHOOTING

Episode® Speakers are designed to function trouble-free. Most problems that occur are due to simple issues. If you have trouble, check the list of simple fixes below. If the problem persists, contact Episode Customer Service at 1.866.838.5052.

No Sound

- Verify that there is audio coming from the source selected. Select another source if necessary.
- Ensure that any power amplifiers are turned on and connected properly.
- Check any connections at other devices, such as a volume control. Temporarily bypass the control if needed.
- Check wire connections at each speaker not producing sound for good contact to bare wire, not wire insulation.

## WARRANTY

Limited Lifetime Warranty

Episode In-Wall, In-Ceiling and In-Room Speakers have a Lifetime Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization number (RA).

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episode

engineered by Snap av

# OWNER'S MANUAL >> HT900 SERIES IN-WALL SPEAKERS

**ES-HT900-IWLCR-6** **ES-HT950-IW-7** **ES-HT950-IWSURR-6**

Welcome to Episode® Speakers. We appreciate your purchase and are committed to providing the highest-quality products possible.

The Episode® HT900 series models are a superb choice for the ultimate home theater installation. They have been designed with advanced technological components that allow for high performance and a lifetime of enjoyment.

## IMPORTANT INSTRUCTIONS AND CONSIDERATIONS

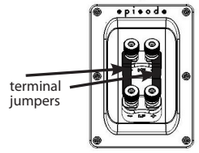
- Read and understand all instructions.
- Before beginning the installation, carefully plan locations accounting for potential electrical, plumbing or other obstacles.
- Contact a suitable contractor if you are unsure of how to best install.

## GENERAL GUIDELINES

- Keep speakers approximately 2 feet away from corners and other surfaces that might interfere with or reflect sound, such as tall furniture.

# BI-WIRING/BI-AMPING

If bi-wiring or bi-amping is desired, remove the two terminal jumpers and connect speaker wires appropriately to the terminals marked HF (high frequencies) and LF (low frequencies).



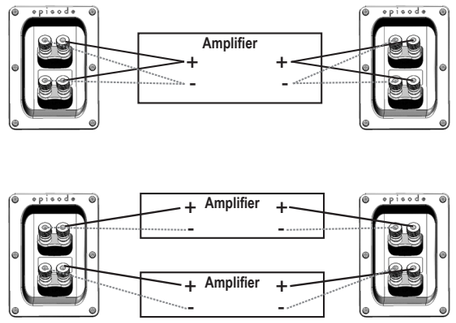

## BI-WIRING

The purpose of bi-wiring is to reduce interaction between woofer and midrange and/or tweeter. Separate cables are connected to the low frequency (LF) terminal and the high frequency (HF) terminal. Both cables are connected to the same terminal on the receiver/amplifier.

## BI-AMPING

The highest possible performance is obtained by using separate amplifiers for LF and HF. Identical amplifiers can be used; however, if using different amplifiers, the following must be observed:

- All amplifiers should be phase coherent, either phase or non-phase inverting, and have identical voltage gain.
- Each amplifier for LF, and each amplifier for HF, must be identical.




# INSTALLATION

## RECOMMENDED AMPLIFIER POWER

To get the best performance from your HT900 Series Speakers, we recommend powering it with an amplifier or receiver with a power rating between 50 and 200 Watts RMS per channel.

## SPEAKER WIRE

To connect your HT900 Series Speakers to your amplifier, high quality 12 to 16 gauge stranded speaker wire is recommended. The wire may be connected directly to the speaker's five-way binding posts or terminated with either spade lugs or banana plugs.

## SPEAKER PLACEMENT

For Left, Right and Center applications, the HT900 Series Speakers should be placed with the ribbon tweeter at ear height (about 40 to 50 inches from the floor). This positioning will provide the clearest sound and best dialog intelligibility. The ES-HT950-IW-7 may be mounted upside-down if necessary.

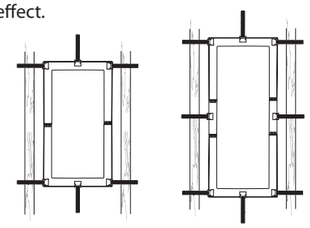
For Center channel applications, place the ES-HT900-IWLCR-6 directly above or below the screen or behind it in installations where a perforated screen is used. The ES-HT950-IW-7 can also be used as a center channel speaker in vertical position behind a perforated screen.

For Left and Right speaker applications, place the HT900 Series speakers on either side of the screen at equal distances from the center of the screen. Ideally, the two speakers should be spaced 6 to 12 feet apart. Left and Right speakers should also be equal distance (about 8 to 20 feet) away from the center of the primary listening position.

While any of our HT900 series may be used as Surround or Surround Back speakers, the ES-HT950-IWSURR-6 speaker is purpose-built for this application. The speakers should be placed to the side or rear of the listening area respectively with the tweeter at about 5-6 feet above the floor. When used as a surround, the HT900 Series speakers should typically be placed as far from the listeners as the room dimensions allow – this will allow for a more enveloping surround effect.

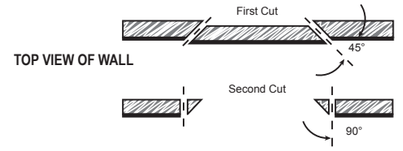
## NEW CONSTRUCTION

In-wall speaker installations can be simplified by using Episode New Construction Brackets (sold separately). These are installed prior to drywall, and allow for precise placement and ease the final installation of the speaker.

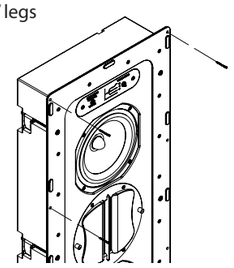


## EXISTING CONSTRUCTION

- Once you have determined your locations, mark the hole to cut out for the speaker using the supplied template. Don't forget to allow for the size of the speaker bezel if you are choosing to install the speaker near a side wall or other item that could become an obstacle.
- If you are unsure of potential obstacles, carefully cut a small hole at an angle to the inside of the template line as illustrated. This will allow you to 'plug' the hole easily if needed. If the area is clear and is a good location for the speaker, go ahead and cut the edges of the opening at 90 degrees to accommodate the speaker.




- Strip the insulation on each conductor approximately ¼" and insert into the speaker terminals. Ensure that there are no stray strands of wire protruding from the connectors. Observe proper polarity (+ to + and – to – for the speaker and at the amplifier).
- Insert the speaker into the wall and tighten each of the six screws for the speakers 'dog' legs enough to clamp the speaker against the wall.
- When mounting next to a stud, where the 'dog' legs can not swing out, install screws (not included) into the stud through the holes at the edge of the bezel. Also apply foam pads (included) on the side of the speaker to minimize vibration from the speaker into the stud.
- Place the magnetic grill over the speaker. Make sure it is flush against the wall.



CAUTION: Do not overtighten screws. This could result in speaker and/or wall damage.

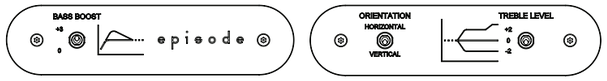
# ADJUSTMENTS

Once installed and connected to the home theater system, the HT900 Series speakers can be tweaked by adjusting the bass, midrange (ES-HT950-IW-7 and ES-HT950-IWSURR-6) and treble levels. There is not one "right" way to set these adjustments. Typically, what sounds the best to the listener is "right" for the installation.

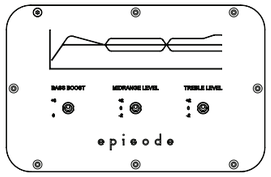
The bass boost switch increases frequencies below 160 Hz with a max boost of +3dB at 75 Hz. Installations close to side walls or other reflective surfaces will increase the loudness in the low frequency range which can result in "boomy" or "muddy" bass. Turn bass level down if the bass or lower mid bass seems "muddy". The switch functions as Boundary Compensation.

The midrange level on the ES-HT950-IW-7 and ES-HT950-IWSURR-6 can be adjusted +2db and –2db from its flat (neutral) position.

The treble level has +2db and –2db adjustments. Screen EQ is also engaged in the + position at frequencies above 8 kHz by an additional +3dB. This compensates for installations behind perforated screens as they attenuate levels above 8kHz.




ES-HT900-IWLCR-6




ES-HT950-IW-7 / ES-HT950-IWSURR-6

## TWEETER ROTATION

For horizontal installation of the ES-HT900-IWLCR-6, the tweeter should be rotated 90 degrees to maintain its optimum dispersion pattern (it is not recommended to install the ES-HT950-IW-7 or ES-HT950-IWSURR-6 horizontally). Follow the instructions below closely to avoid damaging any parts of the speaker.

1. Lay the speaker on its back (drivers facing up) on a solid surface.
2. Remove the 4 screws on the front of the ribbon tweeter.
3. Lift the tweeter with the 2 studs and rotate it 90 degree.
4. Carefully re-seat the tweeter in the opening, ensuring that the gasket material is placed properly in the recess between the tweeter and the baffle.
5. Insert and tighten the 4 screws for the tweeter. Be careful not to over-tighten as this may crack the tweeter flange.
6. Change the ORIENTATION switch to the HORIZONTAL position to compensate for the loping effect (power response) in the horizontal orientation.