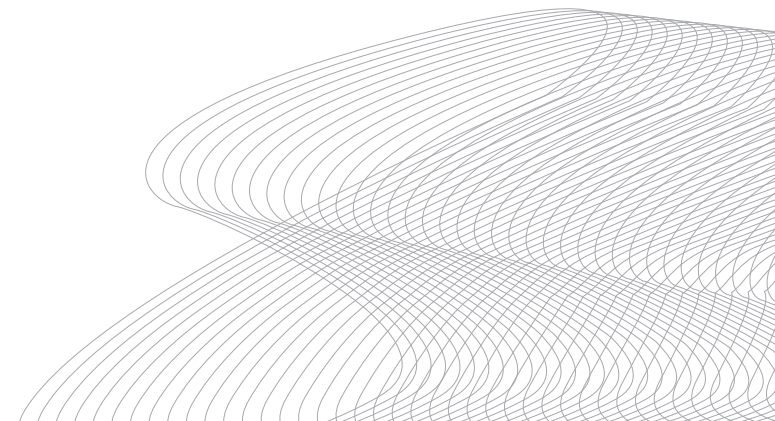




Halo series

Owner's Manual



There are numerous brands in the world today.

What makes STARKESOUND so unique?

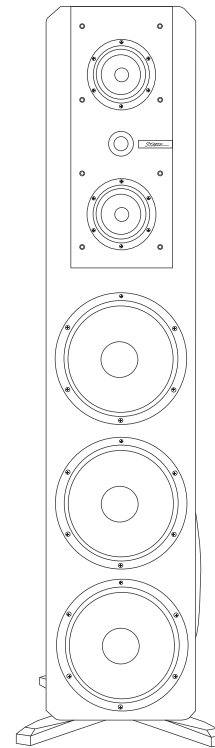
We are the Only brand that uses Uniquely huge satellite speakers, with an unbelievably wide dynamic range and a sleek midrange.

Utilizing the MTM array design, we want to inherit the concept and strive to improving our product. Our speakers has exceeded the industry standard that is built with the highest quality and most accurate sound that is unparalleled in the industry. Our product is able to withstand high power input, thus giving tremendous dynamics. Among others, Starkesound halo series has a unique midrange driver designed to giving a totally different feel from other competitors' speaker systems.

STARKESOUND has developed a varieties of applications for the needs of all discerning audiophiles, offering in-cabinet, in-wall(in-ceiling) and in-room(lifestyle) series. Starkesound is committed to delivery the best result that technology has to offer. We are constantly evaluating new technologies to improving our products. We pledge to evolve with times and one thing that will never change is our faith to producing only the highest quality products!

*Dynamics, Balance,
Detail: You Can Have It All*

IC-H5



Specifications	IC-H5 Elite / Be
Max SPL output (1m)	127dB
Frequency response (±2dB)	28Hz - 28kHz (Elite) / 28Hz-40 kHz (Be)
Recommended amplifier power	60-500W
Nominal impedance	4 ohms
Sensitivity (2.83v at 1m)	92dB
Drivers	1 inch / (2) 4 inch / (3) 8 inch / 12 inch passive
Tweeter	1 inch custom made softdome tweeter (Elite) / 1 inch Super Beryllium tweeter (Be) LMF® technology inside*
Midrange	Dual 4 inch carbon fiber cone with phase plug LMF® technology inside*
Bass driver	(3) 8 inch paper cone with aluminum driver baskets LMF® technology inside* (1) 12 inch carbon fiber sandwich passive driver
Cabinet Structure	Passive Radiator
Input terminals	Binding posts, 2 pairs Banana plug, Y plug and bare wire supported
Crossover	3 way
Crossover points	290 Hz / 3000 Hz
Tweeter option	+2db, 0db, -2db
Boundary compensation	Yes
Grille	None
Finish	Aluminum and Piano Lacquer
Color options	Black Satin/Piano blue
Full size	H 48 x W 9.9 x D 15.7 inches (With spike) H 1220 x W 250 x D 400mm (With spike)
Weight	121lbs (55kg) / each
Shipping size	L 52.6 x W 20.1 x H 14.8 inches L 1335 x W 510 x H 375mm"
Shipping weight	154lbs (70kg) / each
Warranty	10 years (from original purchase date)

*LMF is a patented loudspeaker driver technology of Starke Sound INC.

*Custom paint and grilles are available for an extra charge

IC-H5 Elite / Be

Dynamics, Balance, Detail: You Can Have It All

Called "Sapphire" for its brilliant blue color and sharp edges, this speaker's exterior truly resembles that of a rare gem. The floor standing speaker towers over 1200mm complete with three 8 inch bass drivers. If that wasn't enough we added a 12 inch carbon fiber passive bass driver. The passive driver technology utilizes a very special honeycomb structural assembly to increase its strength and rigidity. This superior speaker possesses a flat response from low frequency to high frequency with fast, rich details and a large dynamic range. IC-H5 is the perfect speaker for Hi-end Stereo sound and multi-channel home theater.

IC-H5C Elite / Be

Sublime Center Channel

Our multi-channel experience would not be complete without our center console IC-H5C Elite. Designed to be displayed and admired the real beauty of the IC-H5C Elite is on the inside. In order to compliment the IC-H5 Elite L/R speakers we specially engineered the IC-H5C to utilize the same IC-H5 drivers - beryllium tweeters, carbon fiber midrange, along with two 8 inch bass drivers - all of which possess our patented LMF Driver technology. We've also implemented a brand new crossover technology so the IC-H5C can reach the same frequency response as the IC-H5 speakers. With all of Starke Sound's newly developed technologies the IC-H5C Elite delivers a very low distortion, high dynamic center console speaker that provides a powerful, fully textured voice output in a perfectly environmental detailed sound.

Location of Front Channel Speakers

Three loudspeakers are to be placed across in the front of the listening room for the home theater system. The width of the stereo image is determined by the distance between the left and right speakers. The image will be too narrow if the speakers are placed too close together and, conversely, if placed too far apart, the blend will suffer creating a void in the middle section.

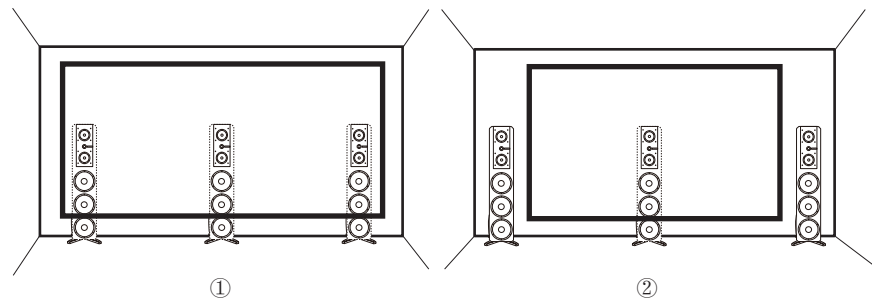
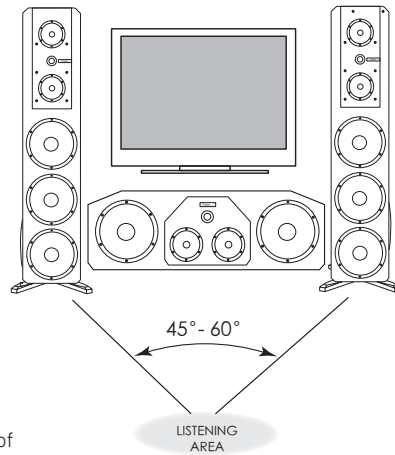
Your speakers should create a continuous "virtual image" when properly placed from left to right. As a result an illusion of sound outside, in front of, and behind the speaker systems will be created.

STARKE SOUND recommends a 45 degree to 60 degree angular separation when viewed from above. The distance between the speakers is 75% of the distance from the speakers to the listener at the minimum 45° separation. At the maximum 60° separation the distance between the speakers is equal to the distance from the speakers to the listener.

In order to create a seamless sound image across the front of the speakers one must carefully consider location and placement.

Optimally, there should be an equal distance from the left, right, and center channel speakers to the listener location.

The height of the midrange/tweeter module of the front channel speakers should be installed as close as possible to the height of a seated listener's ears. The front channel tweeters should be located within two vertical feet of that height.

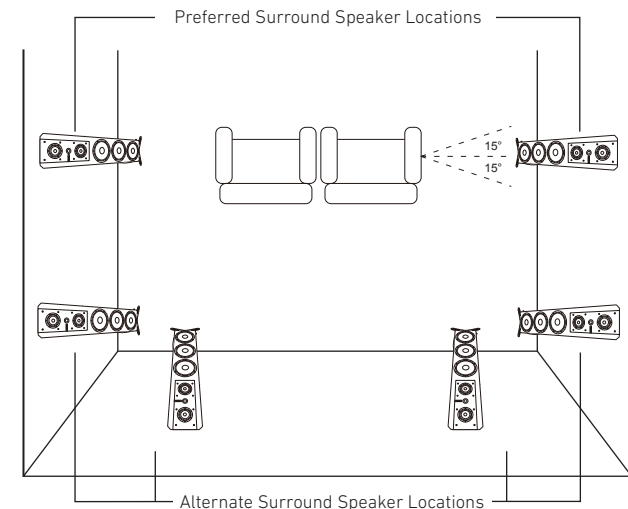


Picture 1: Recommended LCR speakers placement for screen size greater than 150".

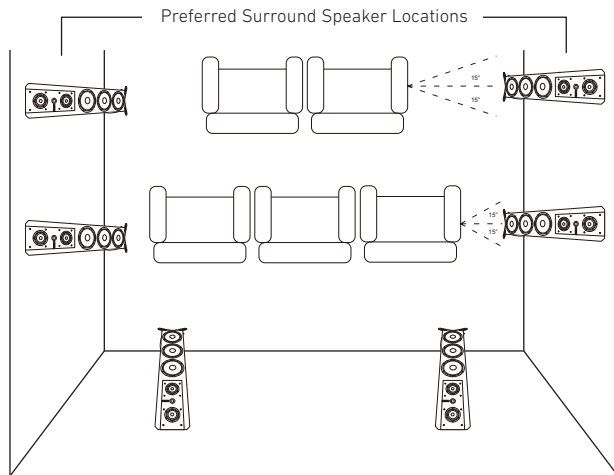
Picture 2: Recommended LCR speakers placement for screen size smaller than 150".

Location of Surround Speakers

STARKE SOUND has provided the following information for the placement of surround speakers. Although there are many opinions regarding placement and location of surround speakers STARKE SOUND has provided the following recommendations based on thorough research, academics, and our experience with many installations. Note: The choice of models used in the illustration below is arbitrary. The information described in the illustrations can be applied to both the IW and the IC series covered in this manual and in any of the surround locations. However, please keep in mind that the midrange/tweeter array in the IC-H5 Elite and IW-H5 Elite must always be vertically oriented.



If two surrounds are used in a standard 5.1 configuration (not 7.1 or EX), they are best mounted directly to the sides of the primary seating location, preferably within $\pm 15^\circ$ (see illustration). This placement is the preferred method over back wall mounting for a few reasons: 1. the placement of the surround speakers are located where the ear's ability to discriminate left from right is optimum. This produces the maximum sense of "envelopment" being surrounded by sound, 2. Mounting the rear speakers behind the listener increases the angle between the front and rear speakers. This results in reducing the chance that there will be a continuous front-to-rear sound image, lastly, 3. Since our ability to discriminate the front-to-rear location of a sound source is not very strong, locating surround speakers to the side of the listener will improve the listening experience. 7.1 or EX systems that use side and rear speakers together overcome all of these obstacles and give both maximum envelopment and a more continuous surround effect.



Recommended surround speakers placement for two rows of seats.

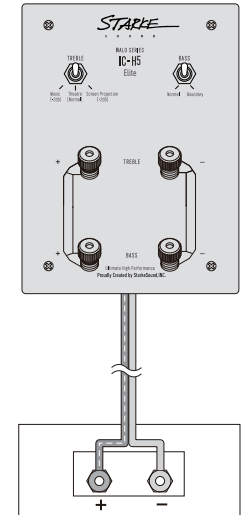
Another factor that one must consider is the evenness of sound coverage over the listening area. As most surround processors have the ability to set the balance of all channels, it is wise to adjust a circulating noise signal in each channel until the apparent or measured sound level is even. Alternatively, the listener can move to another seat and the resultant shift will be balance somewhat. Surround speakers placed properly will minimize the level variation from seat to seat. Increasing the distance of the surround speakers from the listening area is the best way to improve evenness. Mounting the speakers high on the side walls or in the ceiling will improve the listening experience. Surround speakers should be mounted at a minimum of one foot (305 mm) above the height of a standing listener. Note: In the event of ceiling-mounted speakers, be sure to place the speakers close to the side walls well away from an overhead position.

If you are planning a large theater room with three or more rows of seating, one needs to consider that there should be more than one pair of surround speakers in order to give more even coverage and a more diffuse sound field. STARKESOUND recommends that a pair of surround speakers be used for every other seating row (first, third, fifth, etc.). This method mimics the standard for most cinema applications.

Speaker Connection

Prior to wiring STARKESOUND recommends that you plan and layout the wiring paths from the speakers to the amplifier. For runs up to 25 feet STARKESOUND recommends a 16-gauge wire and for runs longer a 14-gauge wire is recommended. Take care to ensure that the integrity of the speaker wire is not threatened or compromised by resting/rubbing against any sharp or pointed objects. Before setting the wire in position be sure to allow approximately an extra foot (305 mm) of wire at the speaker location to ensure an easy connection the speaker.

For standard single wire connections, unscrew one set of the terminal knobs (rotate counter-clockwise). Remove approximately 1/2" (12mm) of the wire insulation from the two wire conductors and twist the wire strands into a tight bundle. Insert the wire into the terminal shaft hole and rotate the terminal knob clockwise to secure the wire in place. Take care that there are no stray or loose strands of wire that could touch the other terminal shaft.



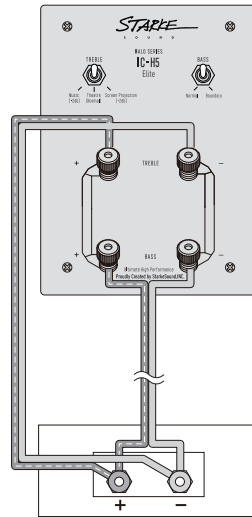
Confirm that both the positive and negative speaker terminals of the amplifier are in connection with the corresponding + (red) and - (black) terminals at the speakers. If you look closely you will see that all wire is marked in some way to trace their respective connections. The two conductors will striped or ridged insulation in order to identify them. Alternatively the conductors may be color coded to ensure their identity. Wires with pin lugs or spade lugs are also accepted by the terminals. In addition, dual banana plugs can be plugged into the rear of the terminals.

Series/parallel wiring should be used when connecting more than two speakers per amplifier channel. Make certain in all cases that the total impedance does not fall below the amplifier's rating. If there is any question be sure to contact your STARKESOUND dealer.

Bi-Wiring

Bi-wiring the speakers can offer benefits for high performance audio systems. This method involves connecting two sets of wires between the amplifier and the speakers. You must first remove the terminal straps by loosening the terminal knobs and sliding the straps to the side.

Be sure to use equal lengths of the appropriate wire for bi-wiring the speakers. Consult your STARKESOUND dealer for different cable options. See illustration for amplifier to speakers connections.



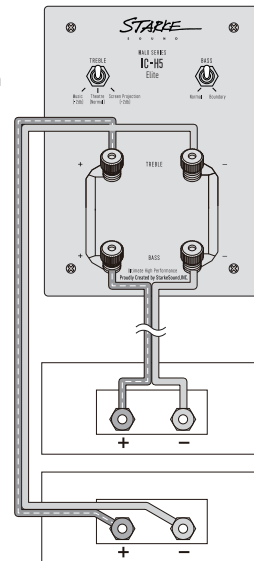
Tri-Wiring

Similarly with bi-wiring, but this time you should remove all connections between the speakers terminals. This method involves connecting three sets of wires between the amplifier and the speakers.

Be sure to use equal lengths of the appropriate wire for Tri-wiring the speakers. Consult your STARKESOUND dealer for different cable options. See illustration for amplifier to speakers connections.

Be sure to use equal lengths of the appropriate wire for bi-wiring the speakers. Consult your STARKESOUND dealer for different cable options.

See illustration for amplifier to speakers connections.

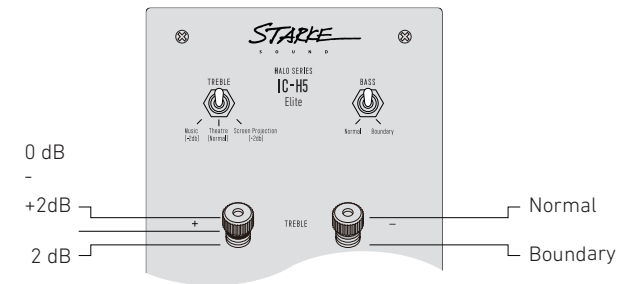


Boundary and Tweeter Control Settings

The connection terminal cup has two switches that enable you to fine tune adjustments to the response of the speakers. These can be utilized to achieve the best possible performance from your speakers in a variety of installation situations.

Boundary Switch If you find it necessary to install the speakers in a situation where they may not produce the best overall sound balance then one can adjust the Boundary switch to improve the overall performance of the speakers. For instance, in order to get the best sound image, the speakers must be installed close to a corner or a large object that forms a corner. Examples could include a fireplace or a large column. This can result in an uneven response in the upper bass and lower midrange which produces a "thick" or "heavy" sound. In vocal reproduction this is particularly noticeable. To control this there is a Boundary Switch located above the connection terminals.

When speakers are located less than 12"-18" (300-450mm) from a corner or other large object, adjust the Boundary Position switch setting. STARKESOUND recommends using strong vocal source material to see if this setting produces smoother, more natural sound.



Tweeter Level Switch

The IC-H7 and IW-H7 series speakers have a three-position switch to adjust the output level of the tweeter. In most situations, the middle "0dB" position will produce the best sound. In rooms that have high acoustical absorbing properties such as plush carpeting and heavily upholstered furniture try the switch in the "+2dB" position. In rooms that have highly reflective surfaces such as stone or hard wood paneling, try the "-2dB" position.

Power Handling and Listening Levels

STARKE SOUND recommends reasonable power output settings for the amplifier so it operates in a way that will not result in distortion. Even a modest amplifier, if producing distortion, can damage speakers. Turn down the volume if you hear a gritty noise or other signs of strain. Prolonged or repeated operation of your speakers with a distorted signal can cause damage that is not covered by the warranty. Note that it is imperative you do not overdrive the bass capability of smaller speakers. Listen for noises, such as pops, caused by the music's bass line. Use of the loudness control and/or full bass boost at louder volumes is likely to overdrive the woofer. Use such controls sparingly.

How to Care for your Speakers

Slightly dampen a soft terry cloth towel with water, glass cleaner, or a diluted mild detergent and then carefully clean the speakers. The towel should be just damp enough to wipe the surface clean without leaving a trail of moisture. Do not, under any circumstances, use abrasive cleaners or any cleaner containing chemicals harsher than those found in glass cleaner.

Limited warranty

STARKE SOUND will repair for the original owner any defect in materials or workmanship that occurs in normal use of the speaker system, without charge for parts and labor for ten years from the date of purchase.

It is your responsibility to use the product according to the instructions supplied, to provide safe and secure transportation to an authorized Starke Sound service representative, and to present proof of purchase from an authorized Starke Sound dealer in the form of your sales slip when requesting service.

Damage that results from abuse, misuse, accidents, shipping, repairs, or modifications by anyone other than an authorized Starke Sound service representative is excluded from this warranty. This warranty is void if the serial number has been removed or defaced.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

If Service Seems Necessary

Contact the dealer from whom you purchased the speaker system. If that is not possible, email us at.

E-mail: service@starkesound.com

or write to: STARKE SOUND, INC. California, USA

17810 S. Main Street Unit B Gardena, CA 90428

We will promptly advise you of what action to take. If it is necessary to return your speaker system to the factory, please ship it prepaid in the original factory packaging. Please note that Starke Sound will not be held liable for shipping damage due to improper packaging. After it has been repaired, we will return it freight prepaid in the U.S. or Canada.

for Europe Customers only



This symbol found on the product indicates that the product must not be disposed of with household waste. Instead, it may be placed in a separate collection facility for electronic waste or returned to a retailer when purchasing similar product. The producer paid to recycle this product. Doing this contributes to reuse and recycling, minimizes adverse effects on the environment and human health and avoids any fines for incorrect disposal.