

# IA8



## Instruction Manual

Thank you for purchasing the Image Audio IA8 wall mounted high fidelity loudspeaker. Many man hours of research and design has gone into producing the IA8. The following information will help you to get the best performance from this Hi-End loudspeaker.

### **IA8 Wall Mounted Hi Fidelity Loudspeaker**

The IA8 has been designed with a no compromise approach in cabinet construction, crossover components and drive unit specification. Installed correctly and used with the right amplification the IA8 will deliver crystal clear audio with fast dynamics, smooth even dispersion and superior high SPL (Sound Pressure Level) capabilities.

There are some unique features that make the IA range superior in sound reproduction. The cabinet is fitted with multiple bracing and filled with a combination of DACRON dampening material and TWARON; an incredibly strong material used in armored vests with fibers thinner than a human hair. This design dramatically reduces unwanted resonants and internal standing waves, removing distortion and improving clarity. The cabinet is a bass reflex design with two ports at its base that run up either side of the woofer. The ports are tuned to perfectly match the response of the cabinet in relation to the wall. This is normally a variable for stand and floor mounted speakers. A Neoprene rubber seal surrounds the rear of the cabinet, this seal compresses when the speaker is slid onto the wall bracket. This helps acoustically isolate the cabinet from the wall improving bass definition.

The custom made 8" bass driver is unique to the IA8 and although from the outside it resembles many woofers, internally it is very different. The woofer is based on Hexatech technology whereby a hexagonal shaped aluminium wire voice-coil affords higher efficiency and power handling accuracy. A mixture of compact yet powerful Neodymium magnets surrounded by ferrite magnets, creates an optimum magnetic field, allowing a large woofer to fit within such a compact cabinet. The same principle has been applied to the construction of the tweeter which also features an unusually large voice coil and hand treated silk dome surface. The crossover has been designed to match the high quality design criteria of the drive units and features world renowned M-CAP audiofile capacitors.



# Installation

In many ways a concrete or solid brick wall makes an ideal speaker stand, it is extremely heavy and solid resulting in good bass definition. If the speakers are located on a stud wall the bass definition will be slightly compromised but no more so than a floor standing speaker on a timber joist floor.

## Fixing the bracket

When installing onto a stud wall ensure the minimum of two size 12 2" screws go directly into the stud. Use at least four expanding plaster board fixings for the remaining holes in the bracket. When installing onto a solid brick or block wall use six 8mm raw plugs with size 10 - 12 screws between 1.5 and 2 inches long.

The base of the wall bracket is located 390mm above the base of speaker, the level of the bracket should be checked during and after fixing. The bracket is narrower than the speaker so that the speaker can be moved horizontally to the desired position.

## Installing speaker cable

Around 0.4m of slack should exit the wall. The exit point should be located below the bracket and anywhere within the rubber seal at the rear of the cabinet. For best results use a good quality 79 strand speaker cable.

Once the speaker cable is connected to the terminals push the speaker hard onto the wall and slide it down onto the bracket.



# Amplification

The IA8 is a powerful loudspeaker with a large dynamic range and can easily handle 150w RMS with 1000w transients. Using an amplifier with a relatively low output will yield reasonable results at low listening levels. At higher levels distortion will occur from the amp when it struggles to drive such a powerful speaker. The resulting DC clipping from the amp can result in damaging any speaker over time. We recommend using a good quality amplifier of between 100w and 200w RMS at 8ohms. A list of recommended stereo and surround sound amplifiers can be found on our website.

## Bi-Amping

The IA range is fitted with separate speaker terminals, the lower set for the bass driver and the upper set for the tweeter. When Bi-amping you must remove the gold connecting strips joining the upper and lower terminals or serious damage will occur to both amplifiers!



## Using the IA8 in a cinema system

The IA range makes a truly awesome surround sound system, taking full advantage of the latest High Definition audio formats. The following settings should be set on the AV amplifier to achieve optimum results.

Model	Speaker channel	Crossover setting on AV amp
IA8	Main L+R front channels	Full range or 80Hz
IAC	Centre channel	80Hz
IA5	Rear Surround	80Hz
IA5	Surround back (7.1 system)	80Hz
IASUB	Subwoofer	80Hz

If the front main speakers are set to full range and a subwoofer is used, both the main speakers and the subwoofer will produce the same bass frequencies. Depending on room size and sub location this can sometimes cause 'booming' or the two speakers can cancel each other out. Experiment by switching the crossover point between full range and 80Hz to establish which setting yields the best results. Setting the crossover point to 80Hz is usually the best option.

Typical speaker location in a 7.1 surround system

