

TECHNICAL DATA

THE 12 PASSIVE ON WALL

HF Driver:
Tweeter with 44mm Voice.coil and diaphragm

LF Driver:
317mm 12" Woofer featuring Lightweight paper cone and High-power, long-throw magnet systems

Power Handling:
600W max (undistorted music program)

Frequency Range:
+/- 3dB from 80Hz to 20kHz (on wall half space)

Sensitivity:
1 W/1m 98dB

Nominal Impedance:
8 Ohm (6 Ohm minimum)

Speaker design:
Vented, low resonance enclosure

Terminals:
Phoenix push on connector

Dimensions:
615 x 390 x 175mm (W x H x D)

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CE
Marking by the "CE" symbol indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community

 This product must be returned to the separate collection system for electronic products. Do not dispose of this product together with general household waste.



The information contained in this manual is subject to change without prior notice.
The most current version of this manual is available on our official website at:
www.aia-cinema.com



CONGRATULATIONS on choosing the Ascendo's The 12 Passive On Wall & On Ceiling Loudspeakers.

This powerful point source coaxial two-way loudspeaker features a 34mm tweeter diaphragm and voice coil technology with a strong single magnet system capable of outstanding performance. Please take a few moments to read this manual. The advice it contains will enable you to get the very best performance out of your Ascendo Immersive Audio loudspeakers.

UNPACKING AND MAINTENANCE

Your speaker should be treated with the same care you would treat a piece of furniture. Use only a piece of a soft cloth and a small quantity of warm soapy water to clean the surface of the loudspeaker. Avoid touching the cone of the bass unit since this may leave a fingermark or even damage the dome and alter its performance. After unpacking, we suggest you retain all packing material for future transports if needed.

RUNNING-IN PERIOD

The performance of the speaker will change subtly during the break-in period of 50 to 100 hours because the moving parts will soften.

Please allow your new speakers to play about 50 hours of music at normal or above normal listening level before doing any critical listening.

ROOM POSITIONING

The performance of every loudspeaker system in a room varies greatly with its placement. Those 12 Passive On-Wall speakers are designed for On Wall or On Ceiling mounts to take advantage of the so-called boundary gain obtained in the lower frequency notes. The speakers must be installed hanging on the wall or ceiling. You will experience the most accurate sound picture if you listen from a position halfway between the loudspeakers. This holds also true using the speakers as object-based Dolby Atmos® Ceiling or Surround speakers. Objects in the direct sound path can disturb the coherence of the sound picture. Try out different positions before deciding on a final arrangement.

MOUNTING

The 12 Passive On Wall speaker possesses multiple mounting options. They have "keyholes" on the backside to allow hanging them on the wall, and they possess a "VESA" 100x200 Mounting option to use a standard VESA 100x200 mount. Because the speaker is a vented design, it must be mounted in a way that allows free airflow from the port and the speaker driver.

FRONT CLOTH PANEL

The 12 Passive On Wall speaker comes with a magnetic attached front-mounted frame, covered with acoustic transparent cloth. The covers can be easily removed by pulling them away

NOTE!

The 12 Passive On Wall should be installed on a wall or on a ceiling for best performance. The full sound performance of these speakers is obtained, when they are wall/ceiling mounted by taking advantage of the boundary gain giving them extended low-frequency performance.

CONNECTIONS

Make sure to turn off all amplifiers before connecting your new speakers to your system.

Connect the cables to the terminals. Use the marking of the cable to ensure that the red or "+" mark of the amplifier is connected to the "+" side of the terminal, also marked with red.

We recommend high-quality loudspeaker cables. Ask your dealer or Installer for the best cables suiting your needs.

POWER HANDLING

ASCENDO recommends using amplifiers with a high dynamic power range. The most important thing is, that the amplifier has sufficient power reserves for handling peaks and transients present in the music signal. The power rating figure of a loudspeaker depends mostly on the clean power provided by the amplifier. A power rating of e.g. 600W RMS says only that you can play a continuous tone of 1kHz at this output. It does not mean that you can turn the volume all the way up on a 100W amplifier and expect clear sound and healthy speakers.

The greatest danger to a loudspeaker is distorted or clipped amplifier signals. Distorting amplifiers produce overtones in the entire spectrum, with a high energy that can easily damage the speaker units. Because a more powerful amplifier can play without producing output distortion, we have the paradox here, it is a greater risk to damage speakers by playing loud with a smaller amplifier.

CAUTION!

If you hear distortion when you increase the volume this is normally a sign of overloading the amplifier or the speaker and you should immediately reduce the output level to not damage the speakers permanently. The use of loudness, bass, or treble boost controls increases the risk of overloading the amplifier. We recommend that you use these controls with great care.

Please practice great caution when adjusting volume levels as this speaker can play well above an SPL level that can and will result in permanent listening damage if not used responsibly.

SERVICE

Shall your ASCENDO loudspeaker system require service, or if you have difficulty in achieving the rightfully expected fine performance of which your ASCENDO loudspeaker systems are capable, consult your dealer that has the knowledge required, to provide expert advice and assistance. In case the ASCENDO dealer is unable to assist you, you are welcome to contact the ASCENDO Technical Department at: info@aia-cinema.com

WARRANTY CONDITIONS

This product is covered by a warranty, depending on the conditions in the country where it is sold. If the speaker is returned for service, please include the original dated receipt with the product. This warranty is valid only in the country of purchase, to the original purchaser and is non-transferable.

ASCENDO loudspeakers are movie and music listening devices and should be used for listening purposes only. They must not be connected to any other equipment than audio amplifiers within the specified power range.

ASCENDO cannot be held responsible for damage or injuries caused by an improper mounting, use, and the speaker is used in violation of the recommendations and warnings in this manual packaged with the speakers.

