

**ASCOLTO<sup>®</sup>**  
Digitally Steerable  
Column Speakers



**"ASCOLTO"**  
Digitally Steerable  
Column Speakers

The Better Understand.

Audio Vertriebs-  
Entwicklungsgesellschaft  
mbH

**ave**



# Digitally Steerable Column Speakers "Ascolto" Excellent Intelligibility.

Our three product series meet all criteria for optimal sound quality and speech intelligibility. They are perfectly adaptable, even in the most acoustically challenging environments. The Ascolto portfolio from AVE provides comprehensive coverage for all types of rooms.

## FF SERIES

The full-range **Ascolto - Series FF** is a new highlight from AVE Stuttgart, featuring its precious coaxial loudspeakers with a 4.0-inch woofer and a 1.0-inch dome tweeter, made both of neodymium. With an exceptionally successful design closely integrated with cutting-edge technology, the new FF Series stands at the forefront of all AVE digitally steerable column speakers. Even more precise, clearer, and refined in sound behavior, the Ascolto Series FF sets a new standard for natural sound reproduction and clarity. Particularly in acoustically challenging environments like halls, lecture halls, churches, mosques, conference rooms, and museums, where conventional active line array speakers often fall short, the Ascolto Series FF truly excels.

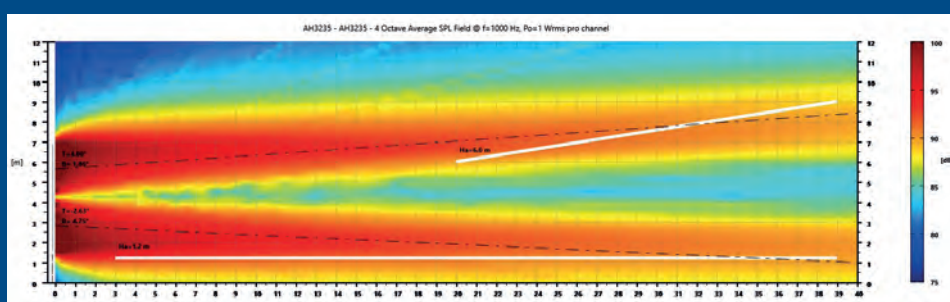
The ASCOLTO Series FF is available in three different sizes: FF0870, FF1670, and FF2470. Ideal for short distances, the FF0870 model offers exceptional performance, while for longer distances, the Ascolto FF1670 and FF2470 column speakers are recommended. With pronounced bass presence, they deliver outstanding sound quality, and their lowest frequency range can be effectively supplemented with a subwoofer for enhanced musical performance. Each digitally steerable column speaker Ascolto - Series FF can also be equipped with a Dante™ network module for added versatility.

## AH SERIES

The **Ascolto - Series AH** stands out for its refined and superior sound quality, attributed to its carefully selected 3.5-inch neodymium loudspeakers that enhance both music and speech clarity. Unique for its acoustic directivity, the Ascolto Series AH excels in reaching deep spaces with precision. Specifically designed for large environments such as churches, cathedrals, and basilicas, the AH Series provides extended coverage while delivering a crisp, bright tone, making it ideal for environments requiring both penetrating projection and clear articulation.

## LH SERIES

The **Ascolto - Series LH** features a 2.5-inch neodymium loudspeaker, offering a balanced blend between the exquisite and incisive sound of the AH Series and the remarkable horizontal coverage and compact profile of the legacy MH Series. Recommended for use in large, highly reverberant environments, the Ascolto Series LH ensures clean and clear sound reproduction. It's an ideal choice where aesthetic considerations or custom requirements demand seamless integration of digitally controlled column speakers.



AH6435 with 2 independent beams and 2 listening areas



# Digitally Steerable Column Speakers "Ascolto"

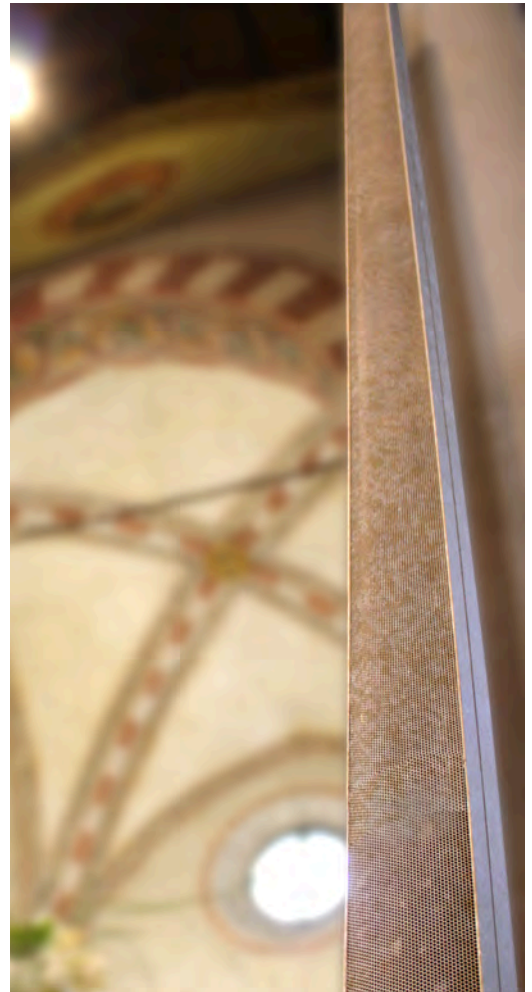
Reliable system. Invisible design.

Digitally Steerable Column Speakers **Ascolto** are characterized:

- Trendsetting technology in an elegant design
- Fit into all architectural styles and settings
- For all kinds of applications where the highest demands are required
- Incredibly clear and distinct sound spectrum
- Constant listening experience over the entire distance
- High sound pressure to fulfill demanding sound requirements.
- High-quality neodymium speakers
- Multi-Beams Technologie (Up to 5 Beams)
- Dante network built-in card for all Ascolto series



The UNESCO World Heritage Site, Cologne Cathedral, relies on the exceptional sound quality and sleek design of Ascolto digitally steerable column speakers by AVE. These speakers seamlessly integrate into the cathedral's architecture, delivering impeccable sound and enhancing the overall ambiance.



Hoch Altar DOM Köln

# Digitally Steerable Column Speakers "Ascolto" Superior Technology - Made in Germany.

The digitally steerable column speakers **Ascolto** are equipped with high-quality neodymium loudspeakers, capable to spread perfectly voice as well as sound instruments.

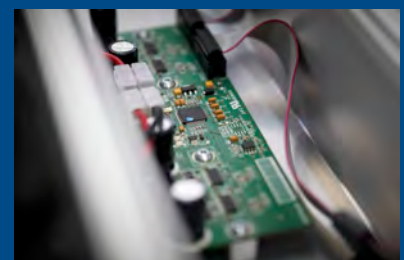
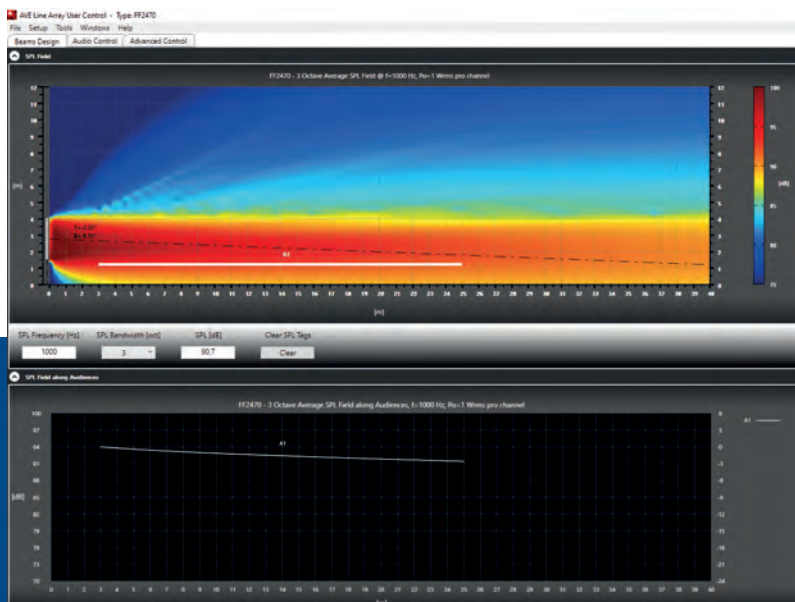
They can handle higher power applications, delivering great tone at any volume levels.

Each digital column speaker **Ascolto** contains a set of custom-designed, fully-programmable 145-MHz, 48-bit DSPs where high precision 76-bit accumulators ensure the bit resolution for a total quality in digital audio processing such as beam filtering and audio equalization.

## Optimal sound quality in spaces with significant reverberation.

They are the only digitally steerable speakers among competitors which possess the innovative **Anti Reverberation System ARS<sup>®</sup>**, capable of increasing the voice intelligibility in reverberant environments.

ARS system conveys uniformly acoustic energy on the lower part of the audio beam and reduce drastically the audio emission upwards, attenuating significantly the acoustic reflections related to ceilings.



FF2470 with 1 audio beam and Anti Reverberation System ARS enabled.

Audio Digital Processing Board



# Digitally Steerable Column Speakers "Ascolto" Invent the Digital Speech / Music Control



The innovative automatic digital equalizer for best graceful music listening.

All Ascolto column speakers are equipped with an intelligent and stable automatic digital equalizer. It analyzes the input signal and measures the relationship between music and language.

In response to such a ratio, the system applies a desired audio emphasis focus gently and gradually to both musical and vocal components in the incoming signal

The higher the ratio, the closer the affected audio emphasis focus is selected by the PC software AVE Line Array User Controls adjustable reference compensation.

The security of the system ensures that the focus is only applied to musical performances and the chorus, while no compensation takes place with the solo passages to obtain the best speech intelligibility.

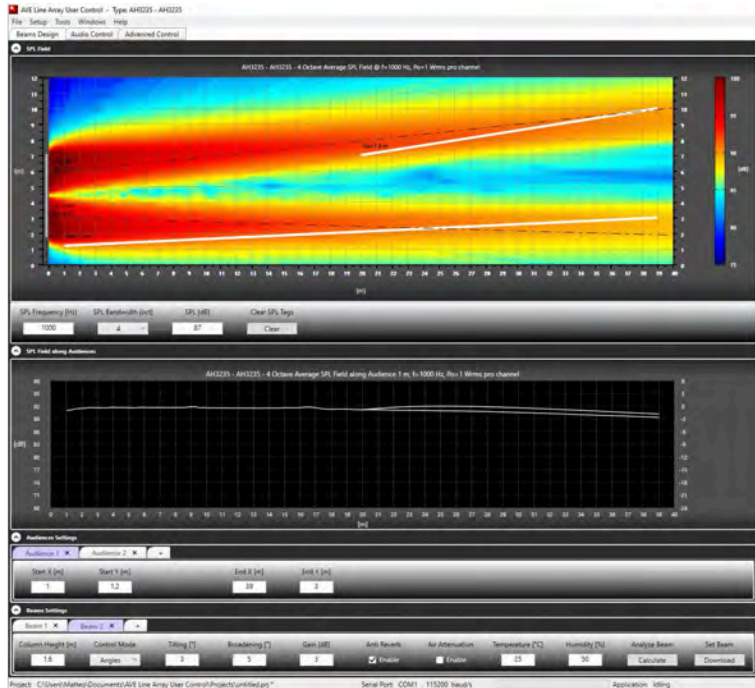
The ultimate outcome of the automatic digital equalizer is to enhance the listening experience, providing deeper sensations.



# AVE Line Array User Control®.

## For best performance.

AVE Line Array User Control® is a sophisticated software application that uses a complex proprietary algorithm to calculate accurately SPL distribution of digital column speakers **Ascolto** from their EASE® models. It allows the user to select the appropriate dispersion pattern and transfer the aiming and filtering parameters to the ASCOLTO column speakers.



The digital column speakers **Ascolto** are equipped with class-D audio amplifiers with excellent THD + N, high efficiency for respect to energy consumption, fully protected against output short circuit and over temperature.



▲ Digital Mixer Andante 16

◀ AVE solutions. Easy to integrate.

# Line 100 volts. Compatible with existing audio networks.

All our digital line arrays Ascolto have a auxiliary audio input at 100 volts level beside the primary line input. Thus, a digital line array Ascolto can be integrated and connected into an existing speaker line network.

## Features Tables.

Series FF Neodymium, Coaxial, 4.0" Woofer + 1.0" Dome Tweeter						
Model	Audio Power (Loudspeakers × Watt <sub>RMS</sub> )	Frequency Bandwidth <sup>1</sup>	Horizontal Coverage <sup>2</sup>	Vertical Coverage <sup>2</sup> (DSP adjustable)	Throw (Typical - Maximum)	Dimensions (Height × Width × Depth)
FF0870	8 × 70 W <sub>RMS</sub>	80 Hz±20 kHz	110°	20° ÷ 40°	20 - 25 m	1174 × 122 × 120 mm
FF1670	16 × 70 W <sub>RMS</sub>			10° ÷ 40°	25 - 30 m	2014 × 122 × 120 mm
FF2470	24 × 70 W <sub>RMS</sub>			8° ÷ 40°	30 - 35 m	3044 × 122 × 120 mm
FF3270	32 × 70 W <sub>RMS</sub>			6° ÷ 40°	35 - 40 m	4024 × 122 × 120 mm

Series AH Neodymium, Wideband 3.5" Woofer						
Model	Audio Power (Loudspeakers × Watt <sub>RMS</sub> )	Frequency Bandwidth <sup>1</sup>	Horizontal Coverage <sup>2</sup>	Vertical Coverage <sup>2</sup> (DSP adjustable)	Throw (Typical - Maximum)	Dimensions (Height × Width × Depth)
AH0835	8 × 35 W <sub>RMS</sub>	80 Hz±20 kHz	130°	26° ÷ 40°	15 - 25 m	1050 × 120 × 121 mm
AH1635	16 × 35 W <sub>RMS</sub>			16,9° ÷ 40°	20 - 25 m	1776 × 120 × 121 mm
AH2435	24 × 35 W <sub>RMS</sub>			12° ÷ 40°	25 - 30 m	2482 × 120 × 121 mm
AH3235	32 × 35 W <sub>RMS</sub>			9° ÷ 40°	30 - 35 m	3197 × 120 × 121 mm
AH4035	40 × 35 W <sub>RMS</sub>			8° ÷ 40°	35 - 40 m	4258 × 120 × 121 mm
AH4835	48 × 35 W <sub>RMS</sub>			7° ÷ 40°	40 - 45 m	4964 × 120 × 121 mm
AH5635	56 × 35 W <sub>RMS</sub>			6° ÷ 40°	45 - 50 m	5681 × 120 × 121 mm
AH6435	64 × 35 W <sub>RMS</sub>			5° ÷ 40°	50 - 55 m	6398 × 120 × 121 mm

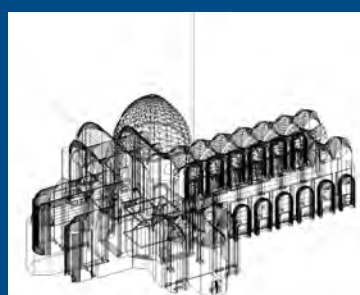
Series LH Neodymium, Wideband 2.5" Woofer						
Model	Audio Power (Loudspeakers × Watt <sub>RMS</sub> )	Frequency Bandwidth <sup>1</sup>	Horizontal Coverage <sup>2</sup>	Vertical Coverage <sup>2</sup> (DSP adjustable)	Throw (Typical - Maximum)	Dimensions (Height × Width × Depth)
LH0825	8 × 25 W <sub>RMS</sub>	120 Hz±20 kHz	155°	30° ÷ 40°	10 - 15 m	840 × 90 × 100 mm
LH1625	16 × 25 W <sub>RMS</sub>			23° ÷ 40°	15 - 20 m	1434 × 90 × 100 mm
LH2425	24 × 25 W <sub>RMS</sub>			16° ÷ 40°	20 - 25 m	1970 × 90 × 100 mm
LH3225	32 × 25 W <sub>RMS</sub>			12° ÷ 40°	25 - 30 m	2655 × 90 × 100 mm
LH4025	40 × 25 W <sub>RMS</sub>			10° ÷ 40°	30 - 35 m	3190 × 90 × 100 mm
LH4825	48 × 25 W <sub>RMS</sub>			9° ÷ 40°	35 - 40 m	4228 × 90 × 100 mm
LH5625	56 × 25 W <sub>RMS</sub>			8° ÷ 40°	40 - 45 m	4764 × 90 × 100 mm
LH6425	64 × 25 W <sub>RMS</sub>			7° ÷ 40°	45 - 50 m	5300 × 90 × 100 mm

<sup>1</sup> Frequency Bandwidth is measured on-axis within ±3 dB respect maximum.

<sup>2</sup> Coverage Angle is measured averaging directivity patterns in the range 500 Hz ÷ 8 kHz and referring to angle between two points on either side of the principal axis where SPL is down 6 dB from its value at zero degree.



High-reliable Switching Power Supplies compliance to IEC/EN 60601-1-2.



EASE Simulation: STI index prediction with two Ascolto LH6425 over listening area (church nave)





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**German Technology  
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Status March 2024

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