

**"ASCOLTO"** Digitally Steerable Column Speakers

The Better Understand.

Audio Vertriebs-Entwicklungsgesellschaft mbH





### 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.

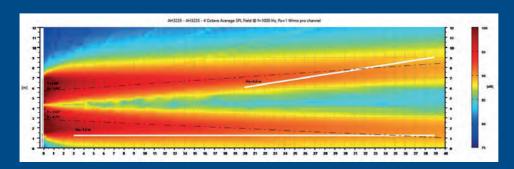
The ASCOLTO Series FF is available in three different sizes: FF0870, FF1670, and FF2470. Ideal for short distances, the FF0870 model offers exceptional performance, while for longer distances, the Ascolto FF1670 and FF2470 column speakers are recommended. With pronounced bass presence, they deliver outstanding 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<sup>™</sup> 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 indipendent 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 Technogie (Up to 5 Beams)
- Dante network built-in card for all Ascolto series

### **Dante**

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.

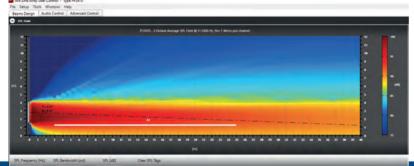
They can handle higher power applications, delivering great tone at any volume levels.

Each digital column speaker **Ascolto** contains a set of customdesigned, 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.



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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.

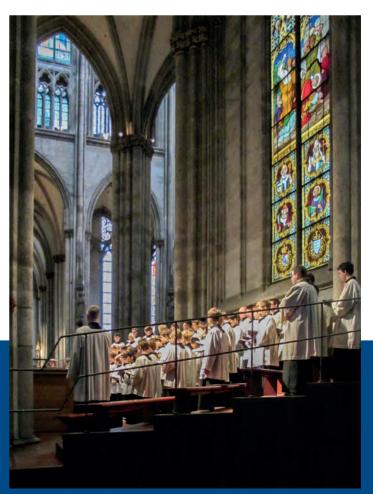
All Ascolto olumn speakers are equipped with an intelligent and stable automatic digital equalizer. It analyzes the input signal and measures the relationship between music and language.

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.

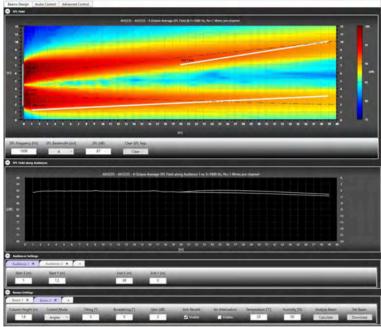
The ultimate outcome of the automatic digital equalizer is to enhance the listening experience, providing deeper sensations.



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### AVE Line Array User Control<sup>®</sup>. For best performance.

AVE Line Array User Control<sup>®</sup> is a sophisticated software application that uses a complex proprietary algorithm to calculate accurately SPL distribution of digital column speakers **Ascolto** from their EASE<sup>®</sup> 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>max</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 × 140 W			20° ÷ 40°	20 - 25 m	1174 × 122 × 120 mm
FF1670	16 × 140 W	80 Hz÷20 kHz	110°	10° ÷ 40°	25 - 30 m	2014 × 122 × 120 mm
FF2470	24 × 140 W	80 HZ÷20 KHZ	110	8° ÷ 40°	30 - 35 m	3044 × 122 × 120 mm
FF3270	32 × 140 W			6° ÷ 40°	35 - 40 m	4024 × 122 × 120 mm

Series AH Neodymium, Wideband 3.5" Woofer											
Model	Audio Power	Frequency	Horizontal Coverage <sup>2</sup>	Vertical Coverage <sup>2</sup>	Throw	Dimensions					
	(Loudspeakers × Watt <sub>max</sub> )	Bandwidth <sup>1</sup>		(DSP adjustable)	(Typical - Maximum)	(Height × Width × Depth)					
AH0835	8 × 70 W			26° ÷ 40°	15 - 25 m	1050 × 120 × 121 mm					
AH1635	16 × 70 W	00.11.20.111		16,9° ÷ 40°	20 - 25 m	1776 × 120 × 121mm					
AH2435	24 × 70 W			12° ÷ 40°	25 - 30 m	2482 × 120 × 121 mm					
AH3235	32 × 70 W		1.30°	9° ÷ 40°	30 - 35 m	3197 × 120 × 121 mm					
AH4035	40 × 70 W	80 Hz÷20 kHz	130	8° ÷ 40°	35 - 40 m	4258 × 120 × 121 mm					
AH4835	48 × 70 W			7° ÷ 40°	40 - 45 m	4964 × 120 × 121 mm					
AH5635	56 × 70 W			6° ÷ 40°	45 - 50 m	5681 × 120 × 121 mm					
AH6435	64 × 70 W			5° ÷ 40°	50 - 55 m	6398 × 120 × 121 mm					

#### Series LH Neodymium, Wideband 2.5" Woofer

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

<sup>1</sup> Frequency Bandwidth is measured on-axis within ±2 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)

### Always at your disposal. In Europe and worldwide.

AVE Audio Vertriebs-Entwicklungsgesellschaft mbH Gustav-Rau-Straße 6 74321 - Bietigheim-Bissingen

#### GERMANY

#### Home office

 Phone
 +49 7142 788 790

 Fax
 +49 7142 7887918

 Web
 www.ave-stuttgart.de

 E-Mail
 info@ave-stuttgart.de

#### Managing Director

#### Salvatore Lattuca

Development / Sales Phone +49 7142 788 79-15 E-Mail lattuca@ave-stuttgart.de

#### **Martin Sieber**

Sales/Technical Consulting Phone +49 7142 788 79-11 E-Mail sieber@ave-stuttgart.de



#### German Technology Made in Germany

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Status April 2025



Audio Vertriebs-Entwicklungsgesellschaft mbH



GERMANY Klein – Beschallungs- und Kirchentechnik Welserstr. 10 f 51149 Köln Tel: +49 2203 911940 Fax: +49 2203 9119449 www.klein-beschallung.de

TÜRKEY KALEPRO Girne Mahallesi Irmak sok, Küçükyalı iş Merkezi, H-13 Blok, Maltepe/Istanbul Tel: +90216 565 69 71 www.kalepro.com E-mail: info@kalepro.com

FRANCE VIGORIS Vincent Goisnard 13, Av Andr6 Renö Guibert 78170 La Celle Saint Cloud Tel: +33 6326 60386

CROATIA SUNFLOWER d.o.o. Tomislav Koran Ante Kovacica 6 51000 Rijeka Tel: +385 98257823 www.paudio.hr

PORTUGAL AND SPAIN Domotron 2 Innovation Administração e Serviços Centrais Rua dos Tractores 506 Armazém C 2870-607 Jardia Tel: +351 212191961 www.domotron.eu

ESTONIA Seastone audio & acoustics Kotka 26 A EE-11312 Tallinn ESTONIA www.seastone.audio

CYPRUS S.M. Soundworks & Repairs Ltd. Marco Stavri Synergatismou 3 Vrontis Court, Shop 7 6018, Lamaca Tel/ Fax: +357 24 818279 Mobile: +357 99 586279 www.soundworkscy.com GERMANY IGL SCHÖNWITZ Audio Consulting Untere Dorfstr. 16 91462 Dachsbach/Rauschenberg Tel: +49 9163 994103 www.audioconsulting.eu

THE NETHERLANDS Schaapsound B.V. Kaartenmakerstraat 18 2984 CB Ridderkerk Tel: +31 85 06633 33 www.schaapsound.nl

FRANCE Ecclesia Sound EURL Joachim Fritsch 80 chemin de la Parette 13012 Marseille Tel: +33 638 83 19 84 www.ecclesia-sound.com

ROMANIA GBC Exim S.r.l. 14, Eugen Lovinescu Street 011276 Bukarest Tel: +40 722.123.059 Tel: +40 216.672.641 www.gbc.ro

SLOVAKIA TM Sound, s.r.o Poštová 2 010 08 Žilina Tel: +421 905 170297 Tel: +421 903 20905 Fax: +421 415 077979 www.tmsound.sk

LATVIJA Seastone audio & acoustics Kotka 26 A EE-11312 Tallinn ESTONIA www.seastone.audio

VIETNAM QV Sound 99/7 Nguyen Tu Nghiem, Binh Trung Tay Ward Thu Duc City, Ho Chi Minh City, Viet Nam Tel: +84 28-6290-8408 Mobile: +84 98-299-1048 www.qvsound.com BELGIUM a.v.t.e. Sprl Informatic & Audio Consultancy PARMENTIER Charles chaussée de Bruxelles, 31 1300 Wavre Tel: +32 108 13136 Fax: +32 108 13136 www.avte.be

FRANCE TSE Technique Spectacle Evénement 14 rue de líndustrie 68440 Habsheim Tel: +33 3 89 63 33 90 www.tse-live.com

ITALY Elettrica Friulana s.n.c. di Tonizzo Ugo & C. Via maggiore, 34 33039 Gradisca di Sedegliano (Ud) Tel: +39 432 916262 Fax: +39 432 916774 www.elettricafriulana.it

POLAND Aplauz Sp. z o.o. ul. Graniczna 19 05-092 Łomianki-Dąbrowa Tel: +48 22751 4239 Fax: +48 22751 4244 www.aplauzaudio.pl

FINLAND Seastone audio & acoustics Kotka 26 A EE-11312 Tallinn ESTONIA www.seastone.audio

LITHUENIA Seastone audio & acoustics Kotka 26 A EE-11312 Tallinn ESTONIA www.seastone.audio

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