

Ascolto® AH

3.5" full-range driver
beam-steering
column speakers

DESCRIPTION

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.

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.

FEATURES

- Full-range high-quality neodymium drivers
- The innovative automatic digital equalizer for best graceful music listening
- Balance clear voice and balanced music performance
- Advanced air attenuation compensation
- Elegantly designed aluminum alloy housing
- Advanced 5-beam technology and powerful beam control capabilities
- High-quality DSP processing performance
- Innovative Anti Reverberation System ARS®

APPLICATIONS

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|  Auditorium |  Classroom |  Cultural tourism projects |
|  Meeting Room |  Conference Center |  Exhibitions |
|  Lecture Hall I |  Large Hall |  Transportation hubs |
|  Command Hall I |  Multi-purpose venue |  Challenging acoustic spaces |

Technical Parameters

Acoustic Specifications ¹		AH0835	AH1635	AH2435	AH3235
Transducers		3.5" neodymium full-range driver			
Number of Transducers		8	16	24	32
Number of Beam		4	5	5	5
Frequency Response ²		80 Hz — 20 kHz (±2dB)			
		50 Hz — 20 kHz (-10dB)			
Horizontal Coverage		130° (-6 dB average 1 kHz to 4 kHz)			
Vertical Steering (0.1° intervals)		-60° to + 60°			
Vertical Opening Angles (0.1° intervals)		26°—40°	16.9°—40°	12°—40°	9°—40°
Throw distance	Typical	15	20	30	40
	Maximum	25	30	40	50
Peak SPL ³	1m	124 dB @ 1 m	129 dB @ 1 m	133 dB @ 1 m	136 @ 1 m
	Typical throw	106 @ 15 m	106 @ 20 m	106 @ 30 m	106 @ 40 m
	Max throw	104 @ 25 m	105 @ 30 m	105 @ 40 m	105 @ 50 m

Electrical Specifications					
Line Input Level Maximum		10 dBu (6.92 Vpp)			
Line Input Type		Balanced			
Input Impedance		20 kΩ @ 1 kHz			
Amplifier Type		PWM (Class D)			
Output Power	RMS	8×35 W	16×35 W	24×35 W	32×35 W
	MAX	8×70 W	16×70 W	24×70 W	32×70 W
THD+N		0.07% @ 10 W _{rms/channel} , 1 kHz			
AC Range		90 VAC to 264 VAC (Universal Input) , 47 Hz- 67 Hz , PFC			
Power Consumption	Stand-By	4 VA	8 VA	12 VA	16 VA
	Idle	12 VA	24 VA	36 VA	48 VA
	Continuous	175 VA	351 VA	527 VA	703 VA
	Peak	228 VA	457 VA	686 VA	914 VA
DSP Processor		48 bit Fixed Point DSP - 76 bit internal Accumulator - 145 MHz			
A/D Conversion		24 bit Linear PCM - 1 bit Delta-Sigma 512x - 48 kHz - SNR: 112 dB (A-Weighted)			
D/A Conversion		24 bit Linear PCM - Upsampling 128x - 48 kHz - SNR: 105 dB (A-Weighted)			
Control Processor		32 bit ARM-Cortex M3 - 50 MHz			

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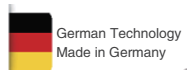
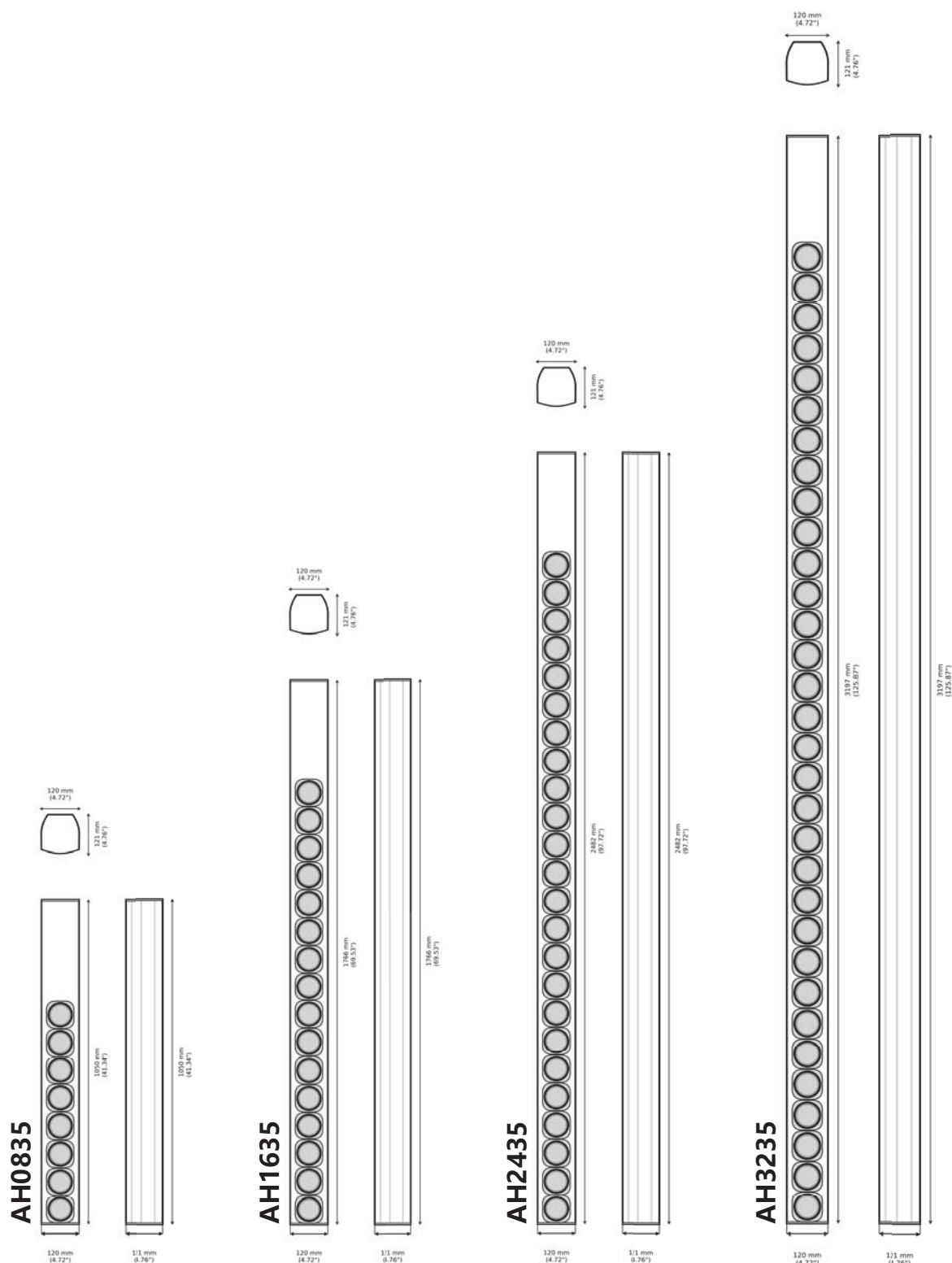
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Audio Inputs Connector	3-pole, 3.81 mm-pitch			
RS485 Connector	3-pole, 3.81 mm-pitch			
Dante Network Connector	100 Mbit/s Ethernet RJ45			
Power Connector	3-pole Wago cod. 770-213/035-000			
Cabinet	Powder Coated \ Aluminum Extrusion			
Protection Class	IP54 (on request)			
Colour	White (RAL 9010) , Support customized colors			
Temperature Range	0° C to 40° C (32° F to 102° F)			
Electrical Protection Class	IEC 61140 - Class 1			
Certificates	CE			
Height (mm)	1050	1766	2482	3197
Width (mm)	120			
Depth (mm)	121			
Weight (kg)	4.2	8.2	17	23

1. Measured outdoors under semi-anechoic full-space conditions using typical filter and delay settings, unless noted.

2. Single transducer data is 1/3-octave averaged, measured on-axis. Specified bandwidth assumes full-space conditions.

3. Levels refer to pink noise (100 Hz-20 kHz, 6 dB crest), at limiter onset.

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