

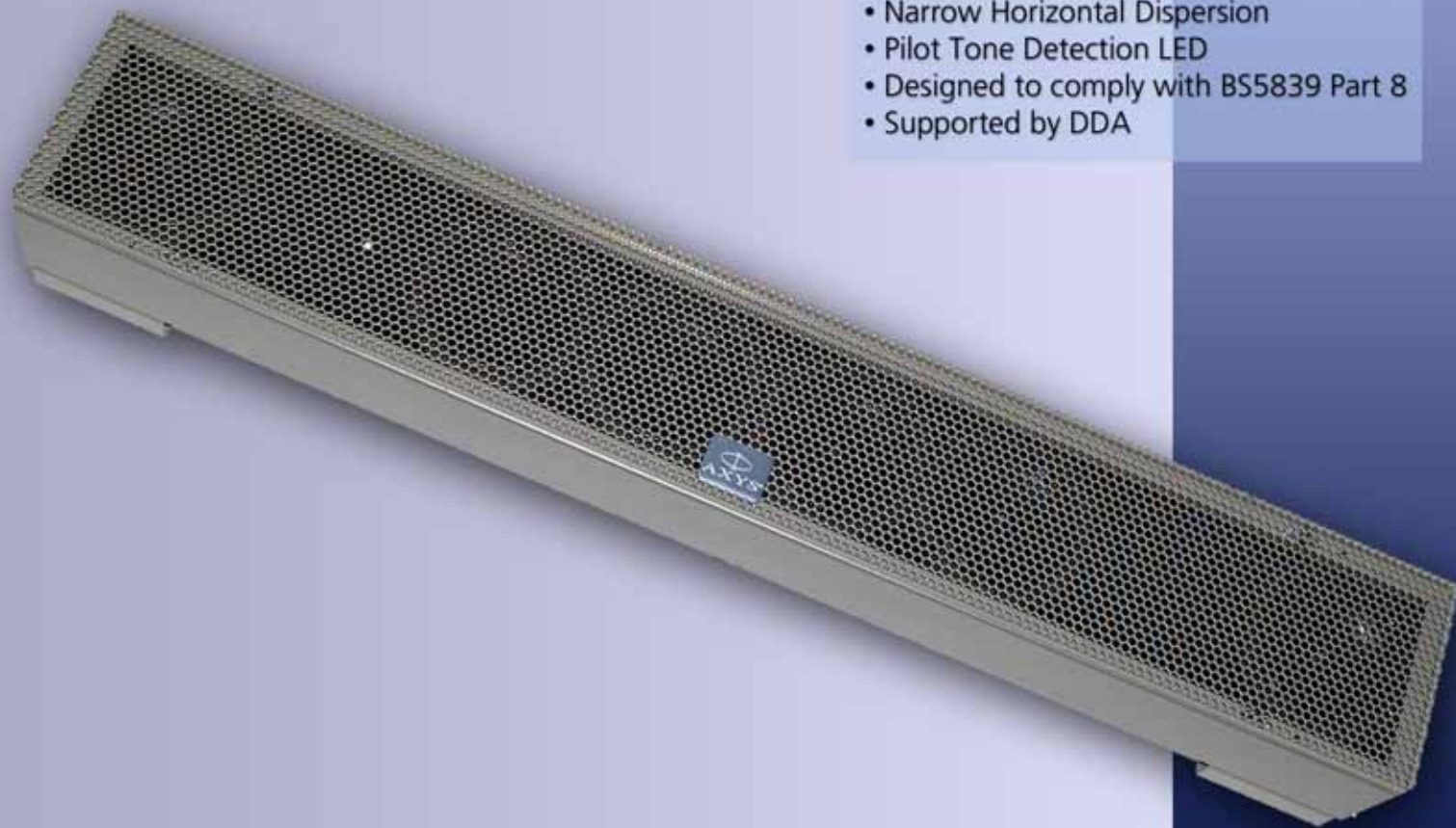
Intellivox

**Model
H-90**

Shaping the Future of Sound Reinforcement™

Features:

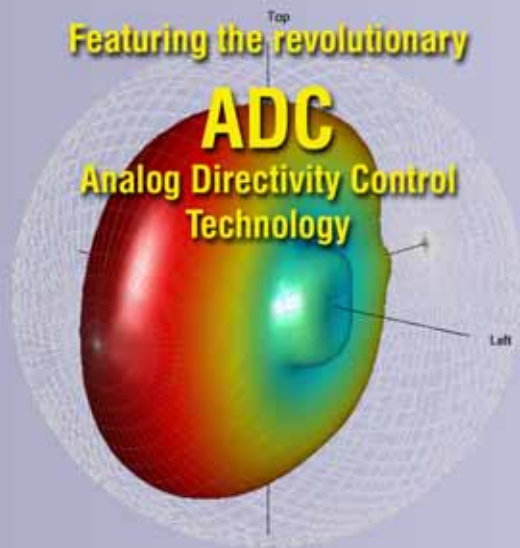
- Superb Speech Intelligibility
- Optimized Directivity Pattern
- Unobtrusive Design
- Narrow Horizontal Dispersion
- Pilot Tone Detection LED
- Designed to comply with BS5839 Part 8
- Supported by DDA



Featuring the revolutionary

ADC

**Analog Directivity Control
Technology**




AXYS®
TOTAL TRANSPARENCY

AXYS® Intellivox-H90

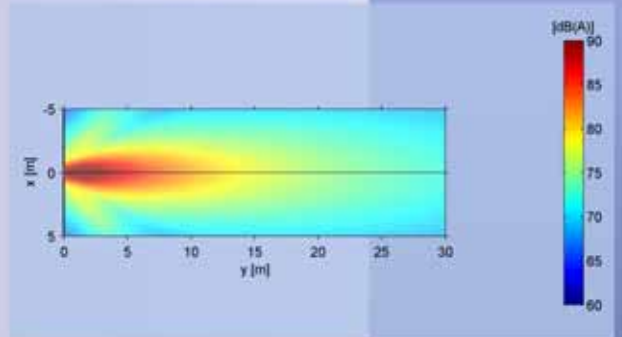
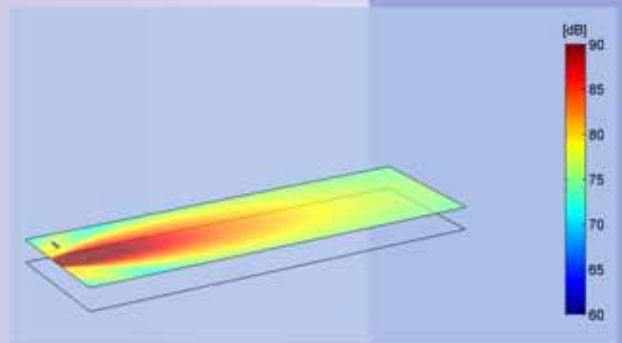
The **AXYS®** Intellivox-H90 array is a compact horizontal loudspeaker array (column loudspeaker) designed for use in 70V/100V Public Address and Voice Alarm (PAVA) systems.

The H-90 is designed for use on platforms and high ceiling corridors to minimize spill over a large bandwidth outside the listening area and provide highly intelligible speech reproduction even within difficult, reverberant spaces. The precisely defined horizontal dispersion aims the acoustic signal at the listener area while minimizing disturbance outside these areas. This dramatically improves the comfort in surrounding areas of for instance open platform railway stations.

Duran Audio's revolutionary Digital Directivity Control algorithm was used to optimize the performance of the Intellivox H-90. The unit utilizes a preset vertical opening angle with a 0° beam steering angle to accurately address the listening area. The column is mounted horizontally and can be mechanically aimed according to the desired throw. The loudspeaker array itself is housed within a steel enclosure and consists of six carefully aligned 4" full range loudspeakers. The specially designed drivers are highly efficient and have an extended flat frequency response, providing natural and uncoloured reproduction of both spoken word and music. In order to obtain the desired horizontal dispersion and true constant directivity behaviour over a broad frequency range, the unit is equipped with a complex set of passive filters. These filters were defined by using the DDC algorithm and the outcome has precisely been transferred into the analog domain resulting in ADC (Analog Directivity Control). The passive filter network provides time alignment for the individual drivers, equalization of the complete array as well as creating a constant wavelength line source. The Intellivox H-90 is designed to evenly cover a distance of between 10-15 meters. It has a fixed vertical dispersion of 150 degrees. The horizontal opening angle is 30 degrees. The focus point for the horizontal beam is at 15 metres. Duran Audio's Digital Directivity Analysis (DDA) software can be used to predict the performance of the Intellivox H-90 ADC controlled array. DDA allows the user to visualise and predict the direct SPL distribution from an array. For more detailed analysis users can transfer the directivity, calculated in DDA, to CATT-Acoustic or EASE4.0. The Intellivox H-90 was conceived to be used within PAVA systems. Several features have been included to provide for easy installation and ensure that the unit complies with the most stringent of standards.

Typical applications include:

- Railway Station Platforms
- Long, high ceiling corridors
- Terminals



SHORT FORM SPECIFICATIONS

Acoustical:

Freq range		: 200 - 5k Hz (+/-3 dB)
		: 150Hz - 12k Hz (-10dB)
Max SPL	- Continuous	: 88dB(A) @ 10 m (pink noise)
Coverage	- Horizontal	: 30° (-6dB)
	- Vertical	: 150° (-6dB)
	- Steering angle	: 0°

Electrical:

Input	- Nominal input power	: 100W/50W/25W @ 100V
		: 70W/35W/17W @ 70V
Transformer Impedance		: 100 Ω @ 100W
		: 200 Ω @ 50W
		: 400 Ω @ 25W
Internal Correction EQ		: jumper enabled
Frequency Pilot Tone Detection		: 19k Hz - 25k Hz
Threshold Pilot Tone Detection		: 5V _{rms} (100V tap)

Mechanical:

Material		: Steel, powder coated
Mounting points		: 2 x 4 x M5 (left and right @ back side)
Dimensions (W x H x D)		: 865 x 134 x 92 mm (34" x 5.3" x 3.6")
Default color	- Enclosure and grill	: RAL 9007 (grey)
	- Speaker baffle	: RAL 9011 (black)
Weight		: 13 kg (28.7 lbs)
IP rating		: IP65

YOUR LOCAL **AXYS®** DEALER



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