

Xpression

Voice Alarm Solutions



MORLEY IAS
FIRE SYSTEMS
by Honeywell

Why Choose Voice Alarm?

Voice alarm is far more effective than alarm sounders in safely evacuating people in an emergency.

Research has shown that in an alarm situation, whilst 13% of people react in a timely manner to a bell or tone, 75% of people react quickly to a voice message explaining the nature of the emergency¹.

Not only do voice alarm systems provide clear directions to people in the building during an emergency, but they also facilitate live messaging to communicate exact instructions to people who are not familiar with their surroundings. The result is an improved management of phased evacuation.

A VA system can combine the function of Voice Alarm with Public Address and Entertainment, creating a simple and cost effective solution for both emergency and non-urgent use.

Many buildings have the need for non-emergency communication with occupants to enhance the productivity of an organisation:

- Public Address (PA) is critical to the use of the building e.g. in a transport hub
- General information
- Entertainment, such as background music
- Spot advertisements in retail environments

1: David Cantor, 'Studies of Human Behaviour in Fire: Empirical results and their implications for education and design.' Published by BRE, July 1985.

What do I need to know?

It is important to understand your responsibilities and the regulations that must be followed.

Overview of standards and regulations

To design any voice alarm system you will need to understand your basic responsibilities under BS5839 part 8.

BS5839 part 8

This is the code of practice for the design and installation of emergency voice evacuation systems.

This sets out all the necessary information you need to design a VA system, and the criteria you need to consider to ensure the integrity of the system through installation commissioning and maintenance.

EN54 part 16

Defines the functionality of the voice alarm equipment and every voice alarm system must be certified to this standard.

The rack system is certified as a complete unit therefore it is no longer possible to build a system using components from 3rd party suppliers.

Emergency risk assessment drives customer requirements

System types:

- V1 - Automatic announcement
- V2 - Automatic and live emergency messages
- V3 - Live announcements to select zones
- V4 - Manual routing of messages fully engineered system
- V5 - Fully engineered systems



How can we support you?

Design support services

Most Voice Alarm systems are relatively simple. However, there will be some that require some specialist knowledge to complete the design.

What we offer

A free voice alarm system design service for the installer.

- Design solution - cost effective design for the application of systems
- Loudspeaker layouts
- Acoustic modelling (where required)
- Peace of mind
- No hidden obstacles

Fully compliant product range

Our range of VA products fully comply with and are certified to EN54 Part 16.

Project support

During the delivery phase of the project we will offer the following:

- Rack build
- Commissioning support
- Factory acceptance test

Non-emergency functions voice alarm and public address

- Microphones and other inputs
- Background music and entertainment
- Security messages
- Commercial announcements





Voice Alarm System

This system combines advanced audio management with a flexible architecture to deliver an advanced voice alarm and public address system suitable for a wide range of applications

Benefits

- Scalable modular system to suit any building size
- Flexible paging and voice alarm supports both simple and the most complex communication needs
- Integrated life safety operation with Morley IAS fire systems and certified to EN54 part 16
- High efficiency Class D amplifiers deliver high quality digital audio
- High band width network for large distributed systems
- Simple management of system configuration using windows based tool

Voice alarm systems are not only used for public buildings with a high number of visitors, but are also being used more and more for public address and entertainment systems. A PA VA system integrated with fire detection delivers significant economies of scale along with the security of operation associated with a life safety system.

Integration of the fire detection technology and evacuation systems offers substantial benefits over separate systems.

System Components

Digital Output Module (DOM)

At the heart of the system, 2 variants of DOM manage 4 audio channels to either 8 or 24 loudspeaker circuits:

- Audio quality and graphic equalisation
- Monitoring of the audio signal from source to loudspeaker
- Configuration of emergency evacuation
- Routing of paging and entertainment



Advanced Class D amplifiers

- 2 x 250W or 2 x 400W versions
- High frequency range to suit all applications
- Full power performance in battery standby

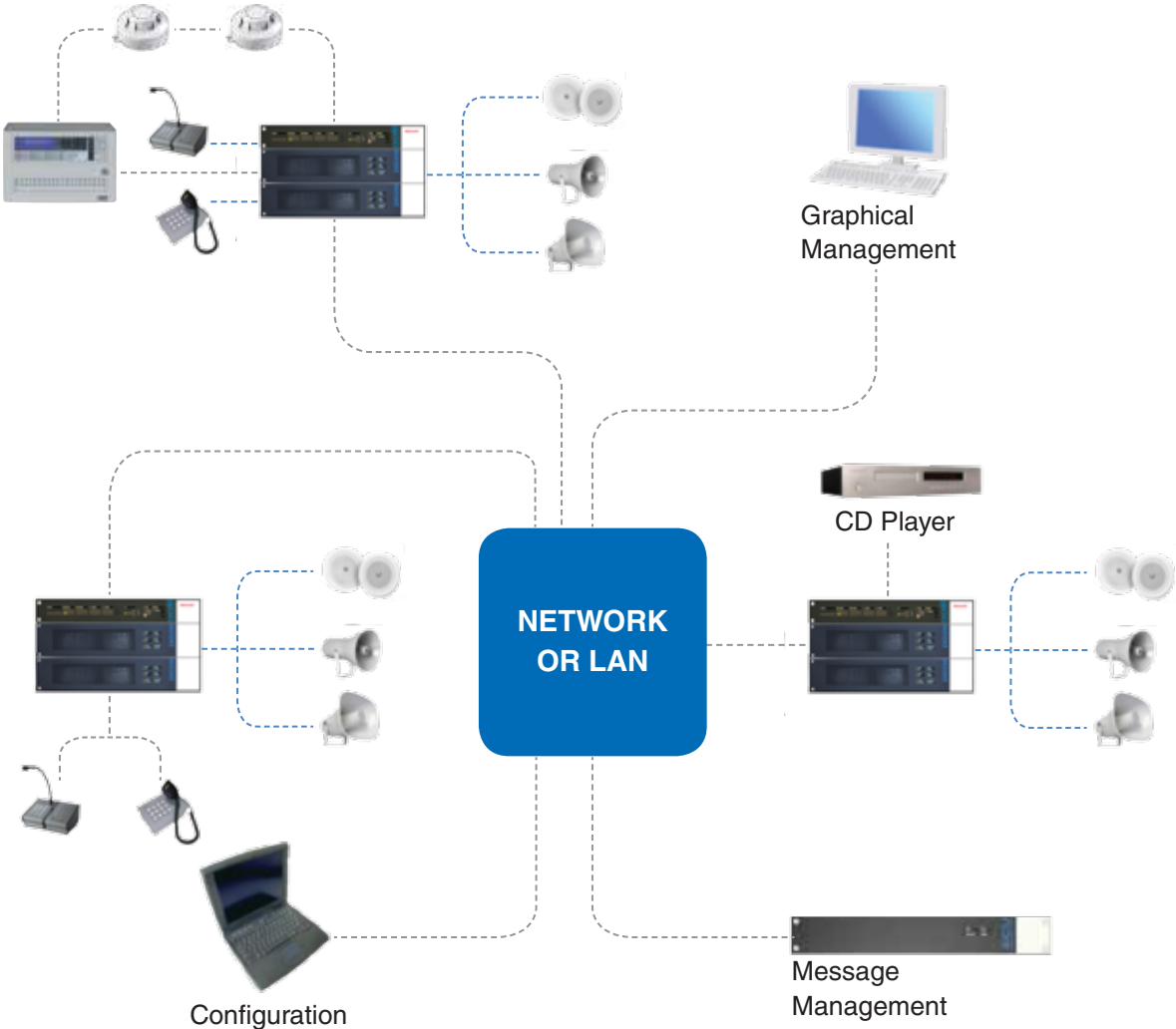
Paging microphones

- Emergency microphones in accordance with EN54 part 16
- Modular range of paging microphones with up to 128 configurable control buttons
- Connection of data and power over standard structured cable

Ancillary control units

- System communication unit for digital storage recording & playback of multiple audio data streams
 - Universal interface module for interface with analogue audio and system control through 48 control contacts.
- 
- 

Components of a rack based system





Distributor Contact Details:

For further details on these or any other Morley-IAS products please contact your local distributor, your local Morley-IAS Business Manager or please feel free to contact the head office using the details provided below. Morley-IAS by Honeywell – Providing a control panel solution, for fire industry professionals, committed to supporting our device partners.



Every care has been taken in the preparation of this product brochure but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice. © Morley-IAS by Honeywell 2012



Charles Avenue
Burgess Hill
West Sussex
RH15 9UF UK

T +44 (0) 1444 235 556
F +44 (0) 1273 376 694
E sales@morleyias.co.uk
www.morley-ias.co.uk

M401-YA (0512)