SPOTLIGHT ON
Public Address

Public Address (PA) plays an important role in the efficient operation of a building by providing both important announcements and back ground music.

- Office Blocks
- Schools
- Leisure Centres
- Hotels
- Shops
- Factories

Design Consideration

Design Comment

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What is the system going to be used for?	Various types of PA systems exist for announcements, announcements and background music and specialised uses such as automatic time clock signals and pre-recorded messages. PA is not, however, suitable for all environments such as rooms requiring high output levels e.g. dance studios. In these instances, independent systems can be provided to operate in conjunction with the site wide PA.
How is the system split across the building?	A PA system can be conveniently split into zones so that different areas can receive specific announcements or listen to broadcast music. Consideration to who needs to hear what and where is important in determining the number of zones.
What sound sources does the client require?	In addition to a paging microphone, several music sources are available for PA systems. Traditionally, multi-play CD players have been used but more recently solid state devices such as SD card players offer a better solution. SD cards have no moving parts, offer low energy consumption and a long life span. 10 days worth of continuous music can be stored on a 16GB card.
Is local control required?	Volume controls and input/output panels strategically placed around a building offer the ability to isolate selective rooms from the PA system and enable loudspeakers to operate from local sound sources. Local control is often very useful for meeting and function rooms etc.
How many speakers are required?	Generally, an output of 10dB above ambient background sound is required for effective PA operation. The environment determines whether a small number of high output loudspeakers or a large number of low output loudspeakers is preferential.
Speech Intelligibility	Intelligibility can be difficult to achieve in particular environments such as buildings with reflective surfaces e.g. swimming pools or high levels of background noise e.g. factories. Care has to be given to the type, number and positioning of loudspeakers to enable optimum intelligibility to be achieved.

Alarm and Communication Systems have been designing and installing PA systems for 25 years and are always happy to help with the design of any systems. If you need any information or advice please contact our Sales Engineer Matthew Jefferson
0191 4178882 or sales@alarmcommsys.co.uk

Communication Systems

- Intercoms & Telephone Systems
- Electronic Signage
- Radio Printing & 2 way radios
- Nurse Call
- Public Address
- Fire Alarm Voice Evacuation
- Background Music
- Doctor/ Reception/ Patient Call
- Refuge Intercoms
- Queuing Systems

TV/ Radio/ Satellite

- Home Entertainment
- NetworkingVoice / Data Systems
- IRS – TV/Radio/Satellite

Maintenance

- Fully comprehensive
- Labour only
- Yearly check
- For 1/ 3/ 5 years
- Maintenance agreements and repair facilities offered on systems not installed by ACS

Security Systems

- Intruder
- Personal / Staff Attack
- CCTV
- Access Control
- Door Automation
- Automatic Gates/ Barriers

Specialist Solutions for: Academies, Colleges and Schools

- Announcements / Class Change Signals
- Projectors and Bulbs
- Sound Systems - portable & fixed
- Special Effects Lighting
- Interactive Whiteboards – SMART & Promethean
- Security & Safety
- Electronic Signage & Messaging TV
- Data & Computer Networks
- Specialist Equipment & Furniture
- Disposal of Redundant Electric/ Electronic Equipment
- Synchronised Time Clocks
- TV & Satellite Systems

DDA Compliance

- Induction Loops and Infra Red Systems for the Hearing Impaired installed in Reception desks, Multi Purpose Rooms, Function Rooms, Churches, Classrooms
- Refuge Area Communication Systems
- Soundfield Systems for Schools, Colleges
- Accessible Alarms for toilets, showers, changing rooms
- Automatic Door Operators

Corporate Solutions

- Training Room AV Equipment
- Lecture Theatre AV Equipment
- Boardroom AV Equipment
- Conference Room AV Equipment
- AMX Control Systems
- Electronic Signage & Messaging TV
- Synchronised Clocks