

Kingfell PA/VA & Acoustics

Kingfell offers design, installation, maintenance and consultancy services for Public Address / Voice Alarm (PA/VA) systems in public and private buildings, ranging from major transport facilities such as airports, underground and railway stations, to private offices and government buildings.

Experience

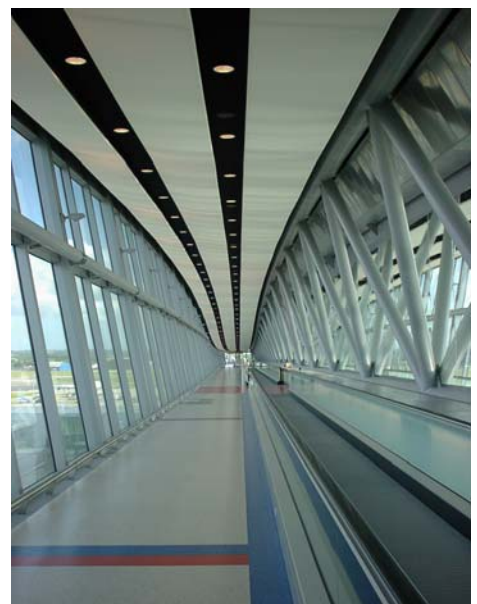
Our expertise includes knowledge of current and legacy PA/VA equipment, installation practices and British Standards. Kingfell provide a full range of services to meet our clients' requirements, whether it be maintenance and upgrade of existing systems, complete system installations, or consultancy / design services.

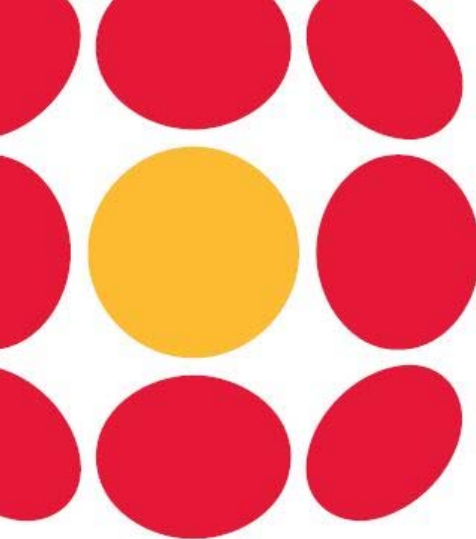
Our clients include, among others:

- Network Rail (planned preventative maintenance for London mainline stations)
- Houses of Parliament (consultancy services – voice alarm systems and acoustic design)
- Birmingham International Conference Centre (PA/VA consultancy services)
- BAA (Gatwick Airport)

Services

- Complete PA/VA system design, from initial concept to detailed design drawings
- PA/VA installation, from design and project management through to final commissioning and certification / hand-over
- Planned preventative maintenance, remedial works, modifications and extension
- Acoustic modelling, design and testing
- Other audio systems including Intercoms, Audio Frequency Induction Loop Systems (AFILS), Fire Telephones / Disabled Refuge, etc.





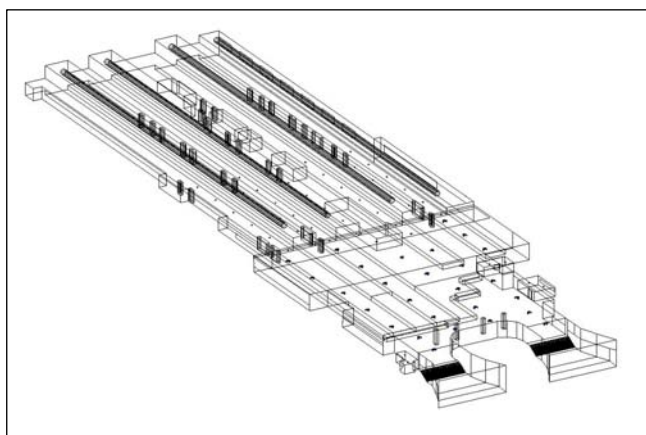
Acoustic Design and Testing

Kingfell are unique as a Fire Engineering company in having a fully qualified and experienced in-house acoustic consultancy capability. This allows us to design and verify systems' performance using acoustic modelling software and on-site measurements. We can carry out predictions and measurements of system sound levels and intelligibility, as well as environmental noise assessments.

Acoustic Modelling and Design

Careful electro-acoustic design for PA/VA systems is critical in ensuring that announcements are clear and intelligible at all times. This is vital not only for assuring public safety in emergency situations, but also to provide clear information for secondary functions such as paging announcements, train / flight times and security information, etc.

Acoustic modelling is a software-based approach to optimising loudspeaker layout designs and predicting their performance in terms of coverage, sound levels and intelligibility. Kingfell use the latest cutting edge software combined with extensive experience of PA/VA installations, loudspeaker technology and acoustics to produce dependable system designs.



Acoustic Testing

Using sophisticated acoustic test equipment, accurate assessments of pre-existing acoustic conditions and PA/VA system performance can be carried out.

These can include measurements of building acoustics parameters such as Reverberation Time and echoes, as well as tests of PA/VA systems' sound levels and speech intelligibility (STI/STIPA). If required, advice can be provided on acoustic treatment / materials to help reduce unwanted echoes and to improve system intelligibility.

