

Press Release

The new line array loudspeakers from Bosch uses Security Systems advanced acoustics to create a larger listening area

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The XLA 3200 range of line array loudspeakers creates a clear, fuller sound which is distributed more evenly over a wider area. The loudspeakers are also characterised by a simple new mounting procedure.

By re-thinking the technology used in conventional column loudspeakers, Bosch Security Systems has created the XLA 3200 (eXtended Listening Area) range of line array loudspeakers. Advanced filtering and positioning of the loudspeaker drivers (patent pending) gives XLA 3200 line array loudspeakers greatly improved audio directivity. More sound is beamed towards the listening area and much less is directed towards the floor, ceiling and walls, minimizing sound reflections and thus optimizing intelligibility.

Extended Listening Area

The result is that the full range of frequencies are present over a wider area. This means greater coverage, so more listeners can enjoy clear speech and natural music reproduction. There is also uniform sound distribution throughout the listening area: not too loud at the front and not too quiet at the back. The improved directivity also means that the risk of microphone feedback is reduced to a minimum, so higher gain settings are possible.

Suppressed acoustic side lobes

Another factor which enhances intelligibility is side lobe suppression. All conventional column loudspeakers produce a main lobe of sound which is directed at listeners and a number of unwanted side lobes which are not. XLA 3200 line array loudspeakers produce extremely small side lobes, a lot smaller than those of conventional column loudspeakers. This gives a much clearer, less 'colored' sound, even when close to the loudspeakers.

Simplified mounting

A time- and labour-saving mounting method has been developed for XLA 3200 line array loudspeakers. A chart is supplied with the loudspeaker, which shows the ideal installation height for the area the loudspeaker has to cover. Once the appropriate height has been determined for a given area, the loudspeaker is mounted at a fixed angle marked on the mounting bracket.

This simple two-step procedure is much simpler and more accurate than traditional iterative installation methods. XLA 3200 line array loudspeakers can be mounted on a wall or directly onto a floorstand without the need of additional accessories.

Practical design

XLA 3200 line array loudspeakers have a modern extruded aluminium housing and silver grille that helps them blend equally well with classical interiors and modern architecture. Their compact dimensions - certain models are just 8 cm wide - make them even more unobtrusive.

High efficiency

The state-of-the-art drivers in the array, produce high sound pressure levels, even far from the loudspeaker. Together with the extended listening area this results in less loudspeakers and amplifier power required to cover a venue.

Family of solutions

The XLA 3200 range consists of three loudspeakers. They are fully voice evacuation compliant (EVAC) and can be connected to 100V lines.

The LBC 3210 (90/60W, 120 cm), with its excellent directivity and high power output, can handle large (reverberant) indoor environments like airport departure lounges, train stations and congress venues. It is also suitable for outdoor use, for instance in railway stations or sports stadiums. Its full frequency range makes it ideal for speech as well as music reproduction.

The LBC 3201 (90/60W, 120 cm), with its extremely accurate directivity and side lobe suppression is intended for medium and large (reverberant) environments as well as more acoustically demanding situations like buildings with pillars or exhibition halls full of stands.

The LBC 3200 (45/30W, 60 cm) is an extremely compact loudspeaker with surprisingly clear and natural speech and music reproduction for small- and medium-sized indoor venues, like showrooms, canteens and conference venues. A really good performer with a superb size/performance ratio.

Together with the new Intellivox DDC (Digital Directivity Control) active loudspeakers by Bosch Security Systems, they truly are the next generation of line array loudspeakers.

Ease software

XLA 3200 line array loudspeakers are compatible with Ease acoustical simulation software, giving installers the added convenience of an on-screen graphical representation of the sound output during installation.

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