



REDUTA CONCERT HALL

Company: Fohhn

Location: Bratislava, Slovakia

In Bratislava's historic Reduta Concert Hall, home of the Slovak Philharmonic Orchestra, Fohhn Linea Focus active electronically steerable line array systems have been installed by Centron in the main hall.

The brief for the hall's new sound system included a requirement for the loudspeakers to visually integrate with the architecture, as well as being able to provide direct and simultaneous coverage of both the stalls and balcony areas of the 700-seater performance space. Linea Focus LFI-220 systems, each containing 16 high performance 4-inch speakers, 16 Class-D amplifiers and 16 separate DSP channels, were wall mounted to the left and right of the main stage area. The slim, elegant 2.2 metre loudspeakers were supplied in a special colour to blend with the hall's magnificent cream and gold décor.

Two systems were guaranteed to provide sufficient coverage of the 27-metre long

hall for presentations and smaller musical events, with Fohhn XS-30 portable active subwoofers added for larger performances. Fohhn's Dual Beam Technology enables each Linea Focus loudspeaker to generate two separate beams within the vertical axis. One beam from each loudspeaker was programmed to directly target the stalls, while the other beam targeted the balcony, providing the entire audience area with direct, even sound coverage. A specially developed Fohhn algorithm, designed to suppress unwanted side lobes in the beams, also ensures highest levels of speech intelligibility and crystal clear reproduction of music throughout the hall. The beam steering capabilities of Fohhn Linea Focus systems make the line arrays highly suited to a range of architectural installations. The loudspeakers' vertical sound inclination angle and their vertical beam width can be adjusted in real time, in increments of 0.1°, using Fohhn's intuitive Audio Soft control software. This enables the system to be easily adapted to any changing acoustic conditions. For the concert hall, various presets were programmed enabling each speaker beam to be switched as required. With public safety another important requirement, the loudspeakers have also been integrated with the hall's internal evacuation system.

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