Martin Audio for Wuping No. 1 Middle School



Recently, Wuping No. 1 Middle School in China’s Hubei Province celebrated its 100th anniversary, during which it has adhered to a philosophy of "cultivating people with moral integrity and all-round development". During that time it has trained more than 50,000 graduates, many of whom have become high ranked in governing the country, studying, and developing industries.

To mark the occasion, a special Forever Azalea concert was performed in the concert hall of the newly built Science and Art Museum, presenting an audio-visual feast to alumni, guests, teachers and students. Martin Audio's signature sound and consistent coverage created a stunning live atmosphere for the concert, which the school is seeing as a new starting point. Going forward, this auditorium will be used for a variety of concerts and operas, as well as other cultural and artistic activities, including major conferences, with the new Martin Audio TORUS providing precise coverage, sound consistency and scalability. It is generally agreed that this has created a wonderful auditory space for teachers, students and audiences alike.

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In the early stages of the project design, the technical team used Martin Audio's proprietary DISPLAY3 predictive software to model coverage, sound propagation characteristics and other factors. This simulation provided the optimum solution. The left and right hangs comprise the classic TORUS constant curvature array, to provide excellent bandwidth and clarity. Each hang consists of six T1215 and a pair of T1230 array speakers - the former providing an SPL of up to 134dB (6dB), and the latter an SPL of up to 132dB (6dB). It comfortably meets all live performance requirements.

TORUS constant curvature cabinets have two vertical angles of 15° and 30°, with a coverage distance of up to 30 meters and capacity to manually adjust horizontal dispersion coverage patterns for additional flexibility. In order to enhance LF extension, two Martin Audio SXCF118 18in cardioid subwoofers have been installed in combination with the TORUS T12 array. With its cardioid directivity, compact footprint and high energy output characteristics, the SXCF118 provides ultimate LF energy.

The off-stage fill comprises Martin Audio FlexPoint coaxial point sound source, with the FP12 delivering the sound image with accuracy as required, at the different listening points. Lip-fills comprise four PI8 8in passive two-way speakers to supplement the coverage of the front row audience and further enhance the listening experience. A further four coaxial CDD10B speakers enhance the stage experience, and this mobile return also uses FlexPoint FP12 speakers to provide performers with flexible monitoring needs. In addition, two further PI8s provide reference monitoring in the control room. The entire system is driven by Martin Audio iKON digital amplifiers, which supports Martin Audio VU-NET control software and Dante integration, and can be modeled in 3D using DISPLAY 3 to provide sonic consistency and precise coverage.

Acoustic design company on the project were Guangzhou Sound Doctor Acoustic Technology Co., Ltd and the sound and lighting were realised by Baishi Safety Technology Co., Ltd. Of the latter, Xu (Rico) Ruixian, General Manager at Martin Audio distributor, Guangzhou Guidance AV Technology Ltd Co, stated: “We have known and worked together for more than ten years.”

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