

Samara. The Gratsia. Meyer Sound



Young gymnasts and coaches have been waiting for the opening of the largest in the city physical training and sports complex “Gratsia” (in English: Grace) for more than five years. The project construction was carried out under the patronage of the United Russia Party.

The Universal Eurhythmic Hall, 1200 square meters in area and 12 meters high, meets all the international standards. During the design process for the hall a trick was used, i.e. a flexible partition dividing the space into two parts – for competitions and for warm-up. The stands of the hall can take up to 1000 spectators. On the first floor of the complex there is a gymnasium hall, more than a thousand square meters in area, with stands for 140 spectators. The complex also features choreography halls, fitness halls for aerobics and training ones, a comfortable hotel and spacious locker rooms. There are two cafes, a medical room and coaches’ rooms.

This physical training complex is special because it will unite three federations under a single roof – the eurhythmics, the gymnasium one and that of aerobics.

The Gratsia was insonified by the Sistema Company, and the result is really impressive.

A. Romanov, General Manager of the project: “As a rule, it’s no an easy matter to insonify a sports hall, because of the architectural acoustics or the absence of it. During the process of electroacoustic calculations quite a number of problem areas were detected in the sound field. The MAPP Online Program Simulator has allowed to detect such areas and correctly identify the position, the type of acoustic systems, the angles, the directions and so on, in order to create the required sound pressure, compensate for the high frequency attenuation and improve the legibility from the spectators’ seats.

The installed acoustic systems were adjusted with the help of the SIM-3 Audio Analyzer, which has acquired the reputation for the previous projects. The final “fine” adjustment of the sound field was carried out using the Galileo 616, which apart from acoustic system control also includes a range of great functions – detention, equalization with minimal phase shift, and condition-dependent air attenuation compensation filters (temperature, humidity).

The reached quality of sound did not require additional equalization, which proved again the high quality of the equipment provided by the Meyer Sound and advanced technologies in doing electroacoustic tasks”.

S. Sheykov, Sound Equipment Project Group Engineer: “According to the position, acoustic systems are divided into two groups: a distributed system for insonifying the spectator stands, the arena and the V.I.P stands.

For concerts, two collapsible stacks comprising the MICA and the 600-HP Acoustic Systems are added to the stationary installed systems, plus a UM-1P or a UM-100P monitor system. Acoustic system control is traditionally carried out with the help of the Galileo 616 Processor and the Compass software for the full-function adjustment and control of the Galileo 616 Processor using a graphic application on

the computer, as well as remote control from a portable PC (Ethernet connection). All the acoustic systems are equipped with the RMS Remote Monitoring System. Information about the state of the acoustic systems is displayed on the computer screen with the help of the software.

During sports events, the mix console is placed in the Sound Room. For concerts, the console and other necessary equipment is installed in the central sector of the spectator stands. Also, the set of equipment includes a huge microphone and radio system base station, signal sources, and processing devices.

In the Gymnasium Hall, where only sports events and coaching is held, two areas are insonified – the arena and the spectator stands. The UPJ-1P and UPM-1P models are used for insonifying the areas. For local insonifying, there is a mobile system included in the UPA-2P and USW-1P. As in this hall there is no sound room, the mix console, the sound sources and the processing devices are placed inside a closable rack cabinet.

The adjustment of the acoustic systems was carried out by certified specialists of the Sistema Company, who have been trained specially at the Meyer Sound.”

So, we have developed a unique project, delivered, installed and adjusted the equipment, trained the staff. As a result, two sports halls have been insonified, **broadcasting** has been carried out, and the service part of the complex has been informed.

Now sport-lovers can enjoy not only an enthralling sight, but also high-quality sound of the American company Mayer Sound, with which the Sistema Company has equipped the Gratsia Physical Training and Sports Complex.

