

Multimedia Project Completed for the Administrative and Business Center / Expo-Hall in Moscow

Hi-Tech Media carried out a comprehensive multimedia equipment fitting-out project for an Administrative and Business Center with expo-hall in the technological innovation special economic zone of Moscow (Zelenograd, Alabushevo site). Two conference rooms with a capacity of 200 and 250 seats, two meeting rooms with a capacity of 80 and 50 seats, two executive offices, an exhibition hall, catering and public areas were fitted with a multimedia equipment system. Hi-Tech Media's scope of work included, development of design documentation, equipment supply, installation and pre-commissioning. Project Manager Sergey stated, "In the course of the integrated solution development, it was of paramount importance to guarantee a convenient reception of video and audio information by every visitor to the exhibition hall: the speech should be clearly heard in the halls, participants in the events, including those from various parts of the world, should be able to see the updated information. An important task was to provide convenient and easy-to-use controls."



The conference hall, designed to accommodate 200 people, was fitted with all the necessary systems not just for high-level events, but also to support concert performances. The upgrades included a microphone system, simultaneous interpretation system, electronic voting system, video conference system, display system, sound system, interactive control system, lighting system, and switching system.

Conference system with electronic voting and simultaneous interpretation facilities

The podium and rostrum were equipped with nine DCN Conference System DCN-DCS units, manufactured by Bosch. Along with high quality speech transmission, the units provide the means to select language channels, which can be listened

to by plugging headphones into the unit. A Bosh Integrus language distribution system supports simultaneous interpretation into three languages, distributing the translation via infrared signals that can be listened to with personal IR receivers with headphones. The translation, performed by the interpreters in a separate room, will be transmitted via Bosch DCN-IDESK-D interpretation units. Each of the interpreters' booths is fitted with a 24" display that will show the speaker.



Video conference system

A Polycom Group 500 visual display terminal designed for large audiences was provided to support videoconferencing. Full HD video will be transmitted by means of three Lumens' PTZ cameras and a 20x optical zoom will enable a close-up of the participants' faces from a long distance. The cameras automatically track the speaker on the podium or rostrum upon activation of the delegate unit.

The event visuals and transmissions can be stored into a local network with the help of an Epiphan VGA Grid 4 Source digital recorder.

Video display system

The conference hall was provided with a video projection system to enable a graphic representation of any information and voting results. The system comprises two multimedia projectors, arranged in a stack to deliver bright images even with lights on. The total brightness of the projectors reaches 15,000 ANSI lumen. This projector operation mode increases the system's failure tolerance. A Draper screen with built-in motor can be deployed when necessary. When not in use, the screen can be folded into a dust-tight housing for protection.

Two auxiliary LG 55" LCD displays were provided in the hall to support convenient reception of information by all the events participants.

Participants on the podium can see the visual information on four 24” displays in front of them.



A powerful acoustic system was provided to support the events held in the conference hall. The system enables clear listening to speech at every point in the hall. A Biamp Nexia CS audio processor was provided for audio signals switching and dynamic processing. The audio system is optimized for concert performances.

A Crestron control system was installed considering the large-scale multimedia equipment system. An operator’s workplace was fitted with a sensor panel and a back-up Apple iPad Air tablet enabling the operator to control the complex logic of subsystems from the conference hall via an intuitive interface.

A system for the 250-seater conference hall includes the following subsystems; microphone system, display means system, video conference system, sound system, switching system, interactive control system.

Two video walls in 2x2 configuration composed of TRD1055S7 Triolion LCD displays serve as the main presentation means. To provide more detailed information, the hall was equipped with two auxiliary LG 55” LCD displays mounted on B-Tech portable mounts.



To support high-definition (1080p) video conferences, the hall was equipped with a Polycom Group 500 visual display terminal connected with two LumensTM HD PTZ cameras via a modular matrix switcher chassis. These cameras can also be used to stream a participant’s speech during local events in the conference hall and display it on the screens.

Switching and dynamic processing of the audio signals will be performed by a Biamp Nexia SP audio processor. To transmit audio from the hall, the audio processor can be connected to a public area amplifier. The audio system allows organizers to arrange concert performances and events, requiring participation of a sound director and audio engineer, with the help of a Soundcraft Si Expression digital audio mixer that can be controlled wirelessly via an iPad.