



KASHUBIAN PHILHARMONIC HALL



WEJHEROWO, POLAND
EUROPE/MIDDLE EAST/AFRICA

With a concert hall at its core and a number of adjoining service rooms, the functionally designed Kashubian Philharmonic Hall - located in the old town of Wejherowo, Poland - gets noticed for both its decorative architecture and its state-of-the-art audiovisual system. Arch Studio was in charge of architectural design at Kashubian Philharmonic Hall, while Copper Concepts was tasked with the interior design. However, when it came to specifying the audio, lighting and visual technology, owners of the building, City Hall of Wejherowo appointed well known supplier and installer, LTT on the lighting side and Ambient System to coordinate the audiovisual design, supply and install the audio equipment and fine tune it.

The sound system was required to produce high quality sound and even coverage for the 400-seat auditorium. However, the system also had to be portable because when the audience for a show

exceeds the indoor capacity limit, the sound system is removed from the hall and flown outdoors instead. Electro-Acoustics System Specialist at Ambient System, Pawel Zakrzewski said: "The goal was to find a system big enough for outdoor projects that wasn't too aggressive and could also work for small performances in the concert hall. On top of that, the owners also wanted rider friendly equipment to satisfy touring acts."

The design process began with EASE simulation software, Pawel and his team created a 3D model of the venue and added different materials of varying shapes to construct a space with optimum acoustics. After selecting an Outline audio package as the best solution, Pawel also used Outline's OpenArray software for sound prediction, coverage and weight distribution.

Kashubian Philharmonic Hall is home to a typical L-R configuration with each hang comprising six Outline Butterfly C.D.H. 483 line array cabinets to look after the mid-high frequencies and one Outline Butterfly C.D.L. 1815 loudspeaker to take care of the low-end. There are two Outline DBS 18-2 passive subwoofer used as sub extension



cards. The concert hall has an Allen & Heath GL Series analogue desk in place for less demanding events and it also acts as a back-up should the loudspeaker management platform detect a lack of digital signals, the system will automatically switch to the analogue desk. Pawel said: "The Avid Venue Profile was chosen because of its plug and play connection with Pro Tools. The Kashubian Philharmonic Hall has its own studio - based on Pro Tools 11 HD and an Avid Cl24 as a controller - that is directly connected with the FOH position in the venue as well as with the control room by two fibre cores. Therefore, 48-channel audio streams can be sent both ways from the venue to the studio. The Avid Venue Profile is also fitted with a FWx card, which combined with a laptop running Pro Tools 10 is a simple way to record and playback up to 32 channels."

Lighting wise at the Kashubian Philharmonic Hall, City Hall of Wejherowo looked to LTT for design and specification. The rig for the auditorium comprises a number of conventional theatre fixtures combined with LED intelligent lighting.

A total of 25 Robert Juliat Lutin tungsten fixtures were selected for their flexibility, they can be used to create full even coverage across the entire stage, as a soft light or as a directional light depending on what the performance requires. The inventory was expanded with the use of 32 Robert Juliat 329H classic tungsten units, eight Robert Juliat 614SX zoom profiles - which achieve optical quality over medium throw - and 12 Robert Juliat 700 SX2 profiles that offer smooth flat beams over long throw. The French manufacturer also supplied some LED fixtures for the hall in the form of 12 Robert Juliat ZEP 640SX profile spots that offer high lighting outputs with a number of framing and projection abilities. ►

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“The main advantage of using one manufacturer is the compatibility between presets, and limiters as well as achieving the maximum efficiency and sound quality from the amplifiers and the loudspeakers.”


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The LED theme continued when LTT opted to install six Martin Professional MAC Aura washlights that produce powerful beams in the concert hall. These moving heads combine multicolour beam LEDs with a backlight LED array, which removes the synthetic appearance normally associated with a traditional LED washlight. The MAC Auras are supplemented by a Martin Professional Atomic 3000 strobe and a Martin Professional Jem K1 hazer. To complete the lighting rig, LTT chose eight Pulsar ChromaFlood 200 luminaires, each of which feature 66 3W LEDs and are therefore capable of creating many colour mixing possibilities.

Lighting control is provided by a Compulite Vector Violet console that features powerful effects programming, matrix programming, as well as graphical colour, gobo and video pickers, all in a compact package. There are also six Compulite CompuRack dimmer racks in place, each with 24 channels, which allow 3kW of power per channel.

From the beginning the Kashubian Philharmonic Hall was destined to be a beautiful architectural design. However, with a high-end technology set-up at its core it seems beauty also oozes from deep within. 

TECHNICAL INFORMATION

SOUND

12 x Outline Butterfly C.D.H. 483 line array cabinet; 2 x Outline Butterfly C.D.L. 1815 line array cabinet; 2 x Outline DBS 18-2 passive subwoofer; 4 x Outline Mantas loudspeaker; 4 x Outline iSM115 monitor; 6 x Outline iSM212 monitor; 4 x Outline T-Five amplifier; 8 x Outline T-Seven amplifier; 1 x Avid Venue Profile mixing console

LIGHTING

25 x Robert Juliat Lutin fixture; 32 x Robert Juliat 329H fixture; 8 x Robert Juliat 614SX zoom profile; 12 x Robert Juliat 700 SX2 profile; 12 x Robert Juliat ZEP 640SX profile; 6 x Martin Professional MAC Aura washlight; 1 x Martin Professional Atomic 3000 strobe; 1 x Martin Professional Jem K1 hazer; 8 x Pulsar ChromaFlood 200 luminaire; 1 x Compulite Vector Violet console; 6 x ix Compulite CompuRack dimmer rack

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