

CASE STUDIES

Kharkov Philharmonic Society

Place: Kharkiv, Ukraine
Systems: Aero 20



SOUND WITH SOUL

Indigo^{music}



A place where the only protagonist is the best sound

The more than 100 professional musicians of the orchestra needed a great sound accompaniment. A real challenge for DAS Audio systems.

Kharkov Philharmonic Society is a philharmonic association located in the town of Kharkov, Ukraine, founded in October 1929. The organization is one of the oldest and most prestigious in the country. Their premises feature two halls: The Organ Hall and a large Concert Hall, which dates back to the late 19th century and was inspired by the famous Tuileries Palace in Paris.

Owned by the Academic Symphony Orchestra, which is formed by more than 100 leading musicians, the majority of whom have gained recognition in national and international events, the center

is widely recognized as one of the major cultural organizations promoting classical, contemporary and folk music in the country, contributing significantly to Ukraine's cultural life.

The building of the Kharkov Regional Philharmonic Society is a magnificent construction of architectural interest built in 1829. Since then, the building has undergone several reconstructions, including the completion of its masterpiece, the large Concert Hall, in 1885. The stage and the orchestra pit were added later in 1891 and, at the turn of the 19th century, a large foyer was the latest addition to the structure.

For most of the 20th century the building housed the Kharkov Regional Opera and Ballet Theater, but in 1995 the building was transferred to the Regional Philharmonic, although at the time, the large Concert Hall could not host any kind of concerts. It was not until 2016 that, after several financial investments, the Organ Hall was inaugurated, and soon afterwards, the rest of the venue. Recently, the renovation of the theater has been completed with new professional lighting equipment and a state-of-the-art sound system. For the latter, Indigo Music, official distributor of DAS Audio in Ukraine, was presented with a clear choice.

As mentioned previously, the Philharmonic has recently revamped the sound systems both in the “Organ Hall” and the “Concert Hall”.

To update the Concert Hall, 12 AERO-20A line array systems have been used, along with 6 UX-218A for low frequency reinforcement. Power and signal distribution is managed from a single DASNET RACK-26, allowing system control and monitoring via DASnet.

“The advantages of using the Aero-20A systems are obvious thanks to the powerful DSP of each AERO system, they can have one FIR filter per cabinet and this way adapt to the needs of each show, offering spectacular uniformity in frequency response and adjusting sound directivity exclusively to the listening areas.”

Indigo Music’s team also installed a line array consisting of 22 EVENT-210A systems over the magnificent stage of the “Organ Hall” and 4 Event-218A subwoofers for low frequency reinforcement. The system is completed with 4 EVENT-M210A stage monitors and 2 DAS digital signal processors, DSP-2040.

“The color customization of the line array meant we could reduce the visual impact of the systems on the stage. It is not always necessary but, in this case, where the visual design of the stage plays a major role, the result is superb.”

Equipment installed in Organ Hall:

DAS	EVENT-210A (special color version)	22
DAS	EVENT-218A (special color version)	4
DAS	EVENT-M210A (special color version)	4
DAS	AX -EVENT-210 (special color version)	3
DAS	DSP 2040	2

Equipment installed in Concert Hall:

DAS	AERO-20A-120	12
DAS	UX218RA	6
DAS	DASnetRACK-26	1
DAS	USB-485	1
DAS	ECP-20	6
DAS	EC-09	10
DAS	PLINK1-09	10
DAS	ECPK-1	4
DAS	PL-UX218RS	2
DAS	PL-20S	4
DAS	AX-AERO20A	2
DAS	AX-UX218	2
DAS	FIR-Filter Licensy	1
DAS	DSP2060A	1
DAS	COMPACT-2	4
DAS	COMPACT-115	2
DAS	COMPACT-218SUB	6
DAS	ACTION-M-12A	2
DAS	ACTION-M-12	4
DAS	PA 1500	2



The work carried out by Indigo Music in this concert hall, one of the oldest and finest in the country, has far exceeded the sound demands that such venue requires. Not only is evident the substantial improvement in sound quality, but also the installation provides wide coverage, in addition to the power, safety and efficiency offered by the installed systems.

Thanks to the ease of configuration and ease of use of the DAS Audio systems, it is now possible to hold classical music concerts as well as performances and events of all kinds in the hall. Finding the ideal candidate for the venue owners, the Academic Symphony Orchestra, formed by more than 100 nationally and internationally awarded musicians

of the highest level, was a demanding challenge. A challenge that Indigo Music and DAS Audio systems have successfully overcome.





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