

# POLISH GOVERNMENT

## ATLONA OMNISTREAM POWERS DYNAMIC AV OVER IP VIDEO WALL FOR THE POLISH GOVERNMENT



The flexibility and quality of Atlona AV technology means that the company's products are always at the forefront of the industry. So, when a Polish Government ministry requested the installation of a large video wall, the result was the world's first 5x4 AV over IP video wall to be powered by Atlona's OmniStream™ distribution platform.

The video wall is located in the main conference room at Poland's Ministry of Development. Used for major conferences and governmental meetings, it comprises a 5x4 matrix of 42-inch NEC displays, with allowance for a fifth horizontal row. Three 55-inch NEC monitors are also an integral part of the system.

"We became involved thanks to our partner, Perfect Displays, who had previously installed the HDBaseT™ system for the Ministry's complex of conference rooms," says Krzysztof Bocian, product manager for Wroclaw-based SimpleAV, which specified all equipment. "They had been required to keep an older analog system based on VGA and extend it with HDBaseT. This complicated matters, but they knew using Atlona CLSO-824 matrix switchers and HDVS-200 transmitters meant they could install a system that was guaranteed to work."

"Having used Atlona products for the HDBaseT installation, they trusted them," he continued. "So, when it came to the video wall project, there was no question of using anything else."



"Ministry especially liked the idea of OmniStream's built-in redundancy capability because, during important government meetings, it must be completely fail-safe. They were very impressed when we unplugged one of the patch cords from the switch to the decoder and the signal was still there," says Krzysztof.

"The Ministry also really liked having the ability to easily swap the encoder and decoder units out, if necessary. Also, if they wanted to expand the system, they could just add encoders and decoders, instead of replacing the whole matrix or chassis. It has actually been planned to add the extra row to the video wall within a few weeks, so this will make the process very straightforward."

With six distinct video sources simultaneously routed to the main HDBaseT rack, the signal is sent from the output of the matrix to the OmniStream AT-OMNI-112 dual-channel encoder before arriving at the video wall and the three NEC monitors. The encoders were split among three different areas to optimize flexibility with video sources: one is located in the technical room, one in a central signal processing rack, and a third in

# SIMPLE·AV

## Your guide in AV World

SimpleAV showed Perfect Displays the OmniStream distribution platform and took them to a training session at Atlona's Zurich premises, which demonstrated that OmniStream was the ideal solution for the video wall.

"We discussed the project with Reto Spörri, Atlona's senior sales engineer in Zurich, and they sent us a demo kit to do a presentation to the Ministry. The



the main conference room mounted beneath a table.

OmniStream AT-OMNI-122 dual-channel decoders helped to minimize costs and integration footprint, as each decoder feeds two NEC monitors on the video wall. The CLSO-824 switcher feeds audio directly to a Bose audio matrix and loudspeaker system surrounding the video wall.

For the installation itself, Spörri assisted the Perfect Displays and SimpleAV team, as it was both the first large video wall and first OmniStream system that the company had installed.

"The installation part was very simple, because it's only LAN cable going to the encoder and decoder. Thanks to OmniStream's Power over Ethernet (PoE) capability, we didn't have to worry about the power supplies as long as our table with all the corresponding IP addresses was well-sorted," says Krzysztof. "Everything was new to us, so Reto's help was invaluable," adding that Spörri loaned an Atalona Velocity™ control platform to help accelerate the configuration process versus using the existing house control system.

Krzysztof noted that the biggest integration challenge of the project was scale, given the large footprint of the video wall. For the sake of redundancy, the Perfect Displays team added BrightSign® media players that will automatically turn on should OmniStream be taken offline for any reason.

"We are proud to have installed together with our dealer, Perfect Displays, the biggest AV over IP video wall using OmniStream," he concluded. "Its ease of installation, configuration and reliability really have made a big difference to us, as well as satisfying a very high-profile client."



**"ITS EASE OF INSTALLATION, CONFIGURATION AND RELIABILITY REALLY HAVE MADE A BIG DIFFERENCE TO US, AS WELL AS SATISFYING A VERY HIGH-PROFILE CLIENT."**

– Krzysztof Bocian, product manager for Wroclaw-based SimpleAV

## PRODUCTS FEATURED

Model	Description	More Information
<a href="#">HDVS-200-TX</a>	3x1 switcher and HDBaseT transmitter with two HDMI inputs and a VGA input with audio	 <a href="https://atlona.com/product/at-hdvs-200-tx/">https://atlona.com/product/at-hdvs-200-tx/</a>
<a href="#">OMNI-112</a>	Networked AV encoder with two independent channels of encoding for two HDMI 2.0 sources up to 4K @ 60 Hz and HDR	 <a href="http://atlona.com/product/at-omni-112/">http://atlona.com/product/at-omni-112/</a>
<a href="#">OMNI-122</a>	Networked AV decoder with two independent decoding channels and two independent HDMI 2.0 / HDCP 2.2 outputs	 <a href="http://atlona.com/product/at-omni-122/">http://atlona.com/product/at-omni-122/</a>
<a href="#">UHD-CLSO-824</a>	4K/UHD 8x2 matrix switcher with dual, HDBaseT and mirrored HDMI outputs for 4K/UHD @ 60Hz signals	 <a href="https://atlona.com/product/at-uhd-clso-824/">https://atlona.com/product/at-uhd-clso-824/</a>

For more solutions, see <http://atlona.com/solutions-tour/>

For more applications, see <http://atlona.com/case-studies/>

