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Smart Conference and meeting rooms

AV technology in Smart Buildings

Under the umbrella of automation, the trades of modern building technology are merging. This also applies to professional audio-video (AV) solutions, such as those used in conference and meeting rooms. Here, too, the trend toward increasingly efficient building use plays a role. Atlona is a manufacturer of such networked, scalable solutions. At ISE 2023 in Barcelona, the company celebrated its 20th anniversary and presented various innovations. We looked at the portfolio and spoke with Thorsten Goecke, Business Director EMEA at Atlona, during the trade show.

With the return of many employees to the office, there has been a renewed focus in the recent past on the intelligent equipping of properties. When it comes to AV equipment, the emphasis should be on flexibility and ease of use. An appropriately equipped conference room is suitable for presentations, video conferences or even mixed scenarios. Professional, networked AV components with smart control functions make an enormous contribution to efficient building operation - both in terms of more convenient use and more

efficient energy consumption. The application areas of Atlona's portfolio illustrates how such solutions can be quickly integrated into the smart automation of functional buildings. Application areas are for example:

- **Occupancy detection:** AV technology is switched on and off depending on the presence of people in the room.
- **Automatic display control:** An occupancy sensor controls display activity.
- **Wireless presentation:** Content can be played from bring-your-own-device (BYOD) devices via Wi-Fi.

- **Multifunctional sensor technology:** In addition to occupancy, ambient values such as temperature and light intensity can also be recorded and passed on to control room capabilities.

Smart occupancy detection, for example, the AT-OCS-900N occupancy detector from the manufacturer's product portfolio can detect activity in a room and transmit the information via the network to the AT-Wave-101 wireless presentation platform, which in turn triggers the display to switch on.

Images of the double page: Atlona Inc.

The room user can connect wirelessly to the Wave-101 to play their content on the display. The wireless presentation platform allows up to four speakers to present their content on the screen simultaneously, with a presenter mode available to manage additional speakers.

When leaving the room, the occupancy detector then detects whether the room is free again and switches the AV system off accordingly via the presentation platform. Other control parameters that the device can detect and adjust are temperature and light level.

Decoder AT-Omni-121

Wireless presentation platform AT-Wave-101

AV over IP

Distribution of AV signals over the network infrastructure is again handled by Omnistream, an AV distribution platform for designing and building scalable AV systems.

The Omnistream product range includes all necessary devices for the development of networked AV systems, including signal distribution, control and system management.

The platform can be complemented by the IP-based control platform Velocity.

At ISE 2023, Atlona introduced version 2.0, a comprehensive technology update to its AV over IP platform. A key feature is Multiview processing, which is integrated into the AV decoder and allows multiple sources to be displayed on the screen.
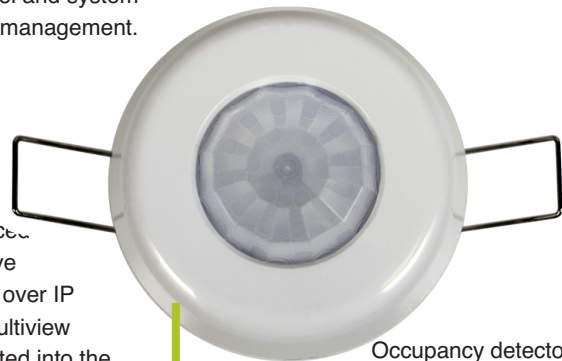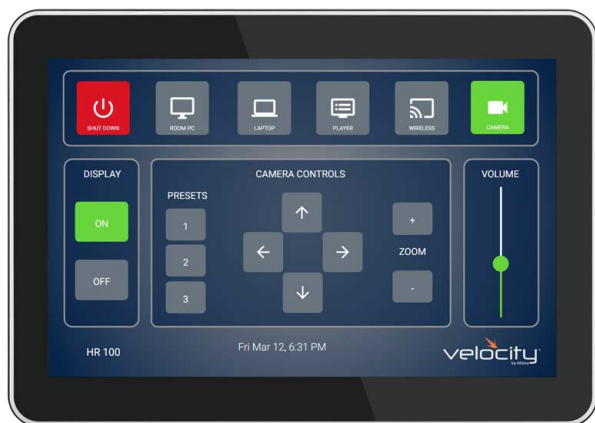
Professional AV Technology

Atlona was founded in 2003 in Silicon Valley as a manufacturer of cables, adapters and video converters. In 2011, digital connectivity solutions for the EMEA market were presented at ISE for the first time. Since then, the company has used ISE as its flagship show for product launches. These include, for example, 4K/UHD extension over HDBaseT in 2015, collaboration systems for soft codec-based conferencing platforms in 2016, IP-based AV control Velocity in 2017, and wireless BYOD in 2020.

Occupancy detector

AT-OCS-900N

IP-based Control

The occupancy sensor can also share this additional information about occupancy, temperature, and lighting over the network. Users can control complex AV systems as well as building components such as blinds and lighting using Velocity an IP-based control platform that combines various functions for modern AV installations. In addition to AV control, the platform offers calendar integration for Atlona touch panels for room planning, centralized configuration of AV devices and remote management via the cloud.

Thus, any room connected to Omnistream with the manufacturer's AT-Omni-121 decoder can serve as an overflow for a presentation session. In the main room, the audience sees the speaker's content in 4K. In the overflow room, the audience sees the same 4K content plus a live stream in HD.

Various associated product solutions such as cameras, intercoms, distributors and extenders as well as diverse panels for control functions round off the manufacturer's portfolio. The AV specialist, which has been part of Panduit since 2019, will celebrate its 20th anniversary in 2023. We spoke with Thorsten Goecke, Business Director EMEA at Atlona, about new products, the AV industry, the merger with Panduit and the topic of cross-trade technologies during the trade fair in Barcelona. You can read his assessment of the current trends in the third issue of GEBÄUDEDIGITAL on June 7! ■

Company | Atlona Inc., a Panduit Company
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AT-VTPG-1000VL 10" Touchpanel with integrated Velocity-Gateway