AVmax®
SYSTEM INTEGRATION

NNG

NNG, a developer of navigation systems, contacted our company in June 2018. They asked us to design a modern, future-proof AV system for their newly built conference and meeting rooms, which can be separated into 3 parts with mobile partitions. An important criterion was that the system should be able to serve the various room layouts created by moving the mobile walls in the most user-friendly way possible, without the help of a technician.

Based on this request, there is a Crestron TSW-760 touch screen control panel next to the entrance of the three room sections, where you can select the room layout you are currently using. After selecting a layout, each layout has a unique UX interface where you can control the functions that correspond to that layout. For example, projector and screen control, source selection, matrixing and volume control. By selecting the layout, the control panel displays of the other parts of the room also automatically switch to the graphical interface corresponding to the layout.

If the desired layout is selected in one room (or in connected rooms), the user has the option to lock it, and then in the other rooms only a layout that does not include the "locked area" can be selected. With this we could ensure that there can be several events at the same time and that they would not disturb each other even due to a user error. The lock can only be unlocked from the touch screen within the locked area.

Room control and AV signal management were solved with the Crestron DMPS3-300-C All-in-one control panel. This control panel includes a Crestron 3-series control processor, an 8×4 multi-format matrix switcher, and an audio processor with 3 independently mixable audio outputs and 6 microphone inputs in one device. Each room has a floor box that can be connected with an HDMI cable, and each room also comes with a Crestron Airmedia AM-101 wireless presentation device. From the floor boxes, the video signal is sent via extenders (Crestron HD-TX / RX-101-C-E and DM-TX-201-C) to the IT manager next to the conference room, where the AV center is also located. From the AV center, the video signal is sent to the displays in two rooms via HDBase-T and in the third room via an extender.

Screenline Wave Tensioned side-mounted projectors and Sony VPL-PHZ10 5000 lumens laser projectors were used to display the presentations. The sound system of the rooms is provided by the Audac ATEO6 wall-mounted speakers as the rooms have unique graphics on the suspended ceiling. The sound system is powered by an amplifier equipped with an Audac PMQ240 DSP.

In addition, we installed 2 XLR connectors in a floor box in the back of the room in each part of the room, to which a mobile speaker rack can be connected if the user also wants to use microphones. With the configuration outlined above, we maxed out the Crestron DMPS-300 control panel, and thus we were able to provide a very modern, premium, but at the same time very cost-effective solution to a service that is becoming more and more common in Hungary today.

NNG

DEVICE LIST

- SONY VPL-PHZ10 projectors
- SCREENLINE Wave Tensioned projection screens
- CRESTRON DMPS3-300-C centre
- CRESTRON TSW-760 control panels
- CRESTRON AM-101 wireless presentation devices
- CRESTRON HD-TX / RX-101-C-E extenders
- CRESTRON DM-TX-201-C transmitter
- AUDAC PMQ240 amplifier
- AUDAC ATEO6 loudspeakers