



Photo courtesy of inAVate Magazine

Crestron Teams AV and Lighting Control at Swedish Sports Arena

The Helsingborg Arena opened its doors late last year for the first of many sporting events to be hosted in the facility which cost in excess of 400m Swedish Krona (£40m). The arena was funded by the Henry and Gerda Dunker Foundation, established by the late businessman and philanthropist Henry Dunker, and employs a Crestron system to handle both the AV control and lighting systems – the first of its kind in any sporting venue across Europe.

The substantial AV system, encompassing both the lighting controls and HVAC, was installed by award-winning integrator, Fremlab AB, with programming on site provided by independent programmer, Niklas Olsson. The AV setup itself cost 12m SEK (upwards of £1m) and covers 21,000 square metres of floor space, including three gymnasiums, seating areas for up to 5,500 spectators and a number of foyers, bars and restaurants.

The installation by Carl-Fredrik Malmgren and his team at Fremlab AB has received much industry attention for its lighting and was a winner in the Crestron Integration Awards for its design and control of the 19 lighting racks comprising of Crestron dimmer modules and DALI control.

A series of six control processors are star networked to the central MP3 processor which acts as the brain of the project. The six subsidiary processors each look after between two and four of the lighting racks with the central processor taking overall control of the onboard astronomical clock and hosts the GUI for the integrated control of the lighting and AV sources.

With a variety of shared areas, hospitality spaces and the gymnasiums, the building controls need to be extremely flexible (the arena will also be used for concerts, conferences and conventions). With this in mind, the system can be controlled from the web via Crestron XPanel software for Mac® and PC and from Crestron VPanel touch screens. There

are an additional three mobile panels available to tap into either the administrative or AV network anywhere onsite.

Niklas Olsson drew on his experience in providing lighting controls for events when programming Helsingborg. With the movement of people inside the arena, particular challenges are presented to the staff when trying to set lighting scenes and maintain both aesthetic and functional light. Therefore, the entire system can be controlled from his intuitive, simple programming so if a spectator leaves a light on or a door open, for example, staff can swiftly correct this from their mobile controls.

With a variety of shared areas, hospitality spaces and the gymnasiums, the building controls need to be extremely flexible.

The user interface is the same for the AV system which is linked to the DigitalMedia 32X32 matrix switcher. The switcher handles the live video system, PTZ cameras, the server that handles the digital signage, and a series of patch panels in the main halls and conference areas. When it came to programming the system, Olsson's job was made easier by the 50 Mitsubishi

displays located throughout the arena for the digital signage. Each of the LDT-462V LCD panels came preloaded with Crestron Connected™ technology, which allows the screens to automatically connect to the Crestron system natively.

With the Crestron processor also interfacing with the HVAC, alarm systems and digital signage, the arena coordinates all of these elements to provide energy efficiencies and productivity.

Automatic shutdown and power-up settings have been configured to encompass each element of the above systems and run seamlessly every night and morning when staff leave and arrive, respectively.

Feedback from the client has been extremely positive from both the end-results that guests see and also for the ease of operation provided by the programming and Crestron interface. Residents of Helsingborg have also been hugely complementary of the arena as a landmark and have commented positively on the exterior LED lighting effects, which is also managed by Crestron dimmers to reduce energy consumption at the stadium.

All brand names, product names and trademarks are the property of their respective owners. Certain trademarks, registered trademarks, and trade names may be used to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography. Specifications are subject to change without notice.

©2013 Crestron Electronics, Inc., Rockleigh, New Jersey



Photos courtesy of Fremlab

