



Successful Application of Crestron's Solution in Expo Center



The Modern World-Class Conference Center

Located at the water-front green-land in Zone B of the Expo Site, the Expo Centre is the Operation Command Center, the centre for ceremonies and conferences, press conferences and various forums of Expo 2010 (officially "Expo 2010 Shanghai China"). After the exhibition, the Expo Centre is expected to be the concentration area of "Conference, Exhibition, Trade and Culture" as well as the landmark of Shanghai.

This building stretches 350 meters from west to east, and 140 meters from north to south, with a total floor area of 140,000 square meters. The Expo Centre was completed and put into trial operation at the end of 2009. Being one of the major permanent buildings, the Centre will serve as a centre for ceremonies and conferences, press conferences and various forums during Expo 2010.

With its unique and superior location, the Expo Center fully makes use of the river view to form an open space for public in the northern district. The main functional area is arranged along the river while the back operational area is at the south, and inside the building. Combining modern architectural visual concepts, the Center is scattered from west to east to reveal the sequential but variable beauty. Visitors can have access to each function places from the hall and view corridor; meanwhile, to avoid interference, staff will service various function rooms through the service channel.

Requirements of Green Construction



After the Copenhagen Summit on climate change, energy conservation has become a hot worldwide issue. To save resources and energy and reduce pollutant production, measures for conservation and waste recycling at the Expo Center, the required activities at the Shanghai World Expo Group Co. Ltd., are carried out with the 3R (Recycle-Reduce-Reuse) philosophy in order to minimize adverse effects to the environment and truly develop the theme of "Better City, Better Life".



The Expo Center will be permanently retained to become a world-class conference facility. Various meetings and conferences will be held in the Expo Center, as a press center, during the exhibition. Moreover, the exhibition will promote the Shanghai modern service industry as a role model of Green Construction.

The selection of Crestron as the fixtures and fittings provider for the Expo Center is due to the fact that Crestron is able to make the Center complete with the functional requirements of a modern world-class conference center, and exhibit an overall appealing visual effect. More importantly, in accordance with the 3R philosophy required by the Shanghai World Expo Group Co. Ltd., Crestron, using its advanced products and technologies, has magnificently solved a series of problems in developing the Centre as a veritable green building.

Intelligent Lighting Control Solutions

Crestron's solutions are applied in the Expo Centre. For example, Crestron intelligent lighting control systems have been used in order to provide visitors a nice and comfortable light environment in conference rooms. A feature of the intelligent lighting control system is the ability to independently manage the specific lighting requirements of each region, for example each conference room, within the exhibition centre from a central network. The managing personnel can proceed either centralized monitor management or on-site illumination control panel to

For example, Crestron intelligent lighting control





enable users to adjust the indoor lighting effects. Through the communication system of each conference room, the intelligent lighting control system is connected to management console which facilitates automatic lighting and energy control of every conference room.



The Perfect Embodiment of Energy Conservation

“Low carbon” is Crestron’s main consideration; Crestron's CLXI and the DIN products can allow users to adjust the brightness of lights according to different needs in any of four VIP rooms named, Plum Blossom, Orchid, Bamboo and Chrysanthemum, or other conference rooms. This greatly saves power consumption, and satisfies the customer’s needs of being environmental. Crestron’s scene change design greatly reflects how energy is conserved.



For example, the main conference room is the room where special report writers welcome there distinguished guests, as well as a platform for guests to understand the writers. Using intelligent lighting control system for dimming control in a special conference room can not only improve the class of the room; but also let guests enjoy the matching of well-conditioned lighting and interior decoration. Based on the actual number and load of circuit, Crestron utilizes a PAC2M to control lighting in the four VIP rooms.

Dimming systems can be adjusted to create visually different conference rooms for special scenarios, for example;

Scene 1: Waiting Scenario - 80% of lighting above seating area of a special conference room and 100% of environment light are turned on. Bright lights can not only make guests feel comfortable, but also allow guests to better appreciate the interior decoration.

Scene 2: In Meeting Scene- 60% of lighting above seating area of a special meeting room and 40% of environment light are turned on. Soft lights can create a more customer-oriented and harmonious



atmosphere for discussion.

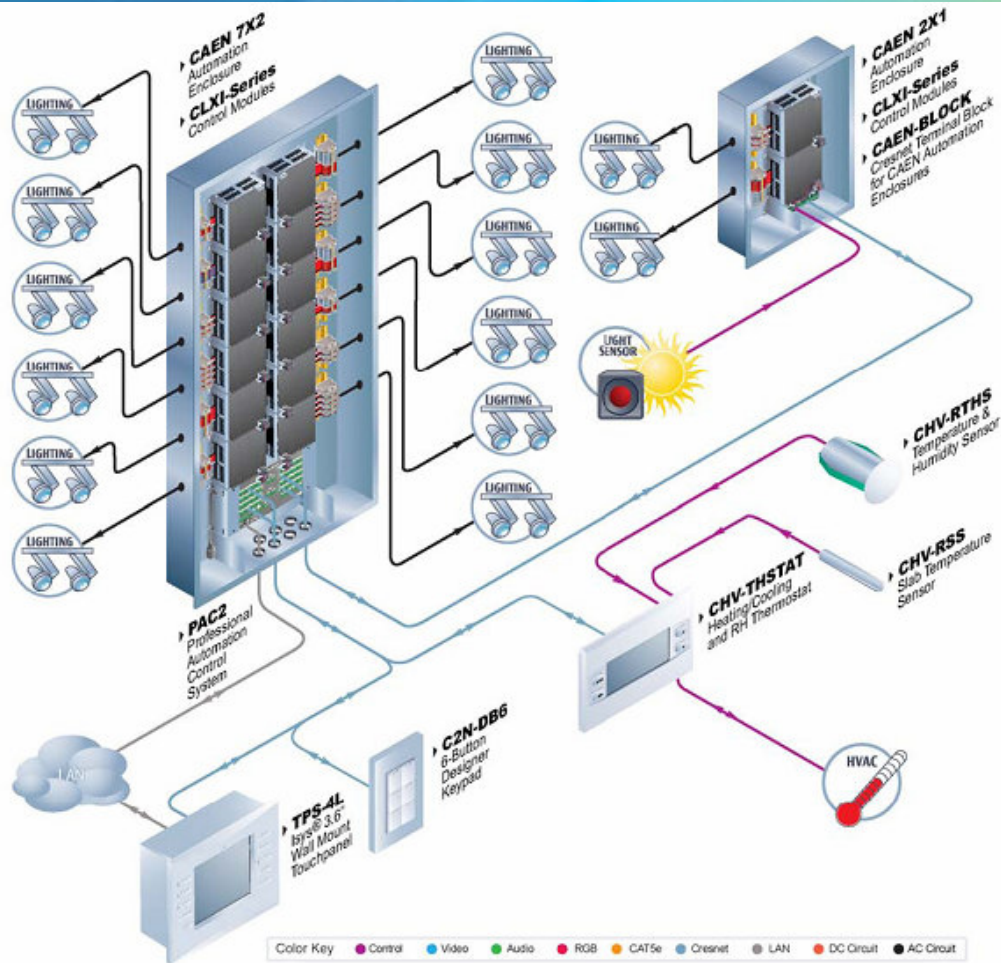
Scene 3: No One Scene – When there is no one in the special meeting room, 40% and of surrounding environment lights are turned on and only 20 % of seating area lights are on or even off. This can avoid unnecessary energy consumption, but also express a special conference room atmosphere.

Furthermore, more scene transformation function is applied to places such as banquet halls by Crestron, which greatly reduces energy consumption and enhances customer experience.



Secure and Stable Control System

In addition, another major advantage of Crestron is the security and stability of the control system. Completely using modular design, the Crestron large-scale lighting system is not restricted in system configuration, and possesses good and flexible expansibility. The CLX series lighting control module, supporting a variety of load types, switch conversion and motor control, is capable of automatic control for lighting, curtains and ceiling fan. Network data transfer rate can reach the maximum 100Mbit / s, enhancing significantly the reliability of information transmission of the large-scale lighting control network. The entire lighting control system settings for each functional module are stored in various intelligent control consoles, and they will not be lost due to power outages. This means that if one module fails, other modules will not be affected in the normal operation of the network. From the maintenance point of view, this "multi-site backup storage" concept is conducive to locating rapid fault, and it also enhances the "tolerance" level of large-scale lighting control system.



Above: Crestron Integrated Lighting System

In collaboration with the Shanghai Golden Bridge Information Engineering Co., Ltd., the multimedia conferencing system contractor of Expo Center, Crestron perfectly shows a modern international conference center with high standard and level. The application of Crestron products within the four VIP rooms, Plum Blossom, Orchid, Bamboo and Chrysanthemum, and other small conference rooms undoubtedly gives the environmental theme of the Expo Centre an additional splendor which becomes a major highlight of the Expo 2010. This also makes the Expo Center become a truly green building, a green building full of wisdom.



Energy conservation, ecology, sustainable development and people-oriented ecological philosophy, have become a main concern of the world. The successful application of Crestron's solution in the Expo Center reveals Crestron's unremitting efforts and beneficial exploration in this aspect. Crestron will keep pursuing innovation in accordance with the beliefs of being green and energy conservation.

