



**Situation** - The Cucamonga Valley Water District (CVWD) built a state of the art facility known as the Frontier Project. Its purpose was to showcase sustainable building practices and to assist in educating the community in the latest methods and technologies in water, energy and site conservation. In order to effectively communicate the various sustainable features of the facility the CVWD turned to Spinitar to design and integrate a series of audiovisual systems that could provide a self-guided interactive learning experience.

## **Solution**

### **Front Receptionist and LCD Displays**

The audiovisual functionality of the front desk consists of three 52" NEC LCD displays mounted behind the receptionist desk. The displays enable guests to view either the same or different content on all three displays. The middle display also serves as the virtual receptionist. This display is triggered by a touch pad door bell that engages the virtual receptionist and connects the lobby display to the receptionist at the CVWD. The CVWD receptionist is able to view incoming visitors to the facility via the AMX intercom touch panel.

There are two 42" Mitsubishi LCD displays mounted to the wall in the landing area and the human resources waiting room. Each display is programmed to play content designated by The Frontier Project. There is one designated content player for both displays which is housed in the AV equipment rack located on the lower level.

### **Combinable Conference Rooms**

The Combinable Conference Rooms are equipped with Christie projectors and Draper screens that are ceiling mounted on an orbiting lift. The design of this space

included careful planning to ensure the aesthetics of the space were considered in the equipment selection. The conference rooms are configured to view presentations from a PC, laptop or DVD player. Eight Sound Tube pendant mount ceiling speakers and two subwoofer speakers provide audio to the rooms. Control is managed with an AMX wireless touch panel control system which allows the end-user to conduct macro commands with the touch of a button. The control system allows basic control of the DVD player, Polycom video conferencing system, Accordent capture station, and audio conferencing system.

A Polycom multi-point video conferencing unit which allows the end-user to host or join video conferencing sessions involving multiple locations was integrated into one of the rooms. This system includes a Shure podium mounted microphone, lavalier microphones, and handheld microphones. This room also features an Accordent capture station which is a user-friendly solution for webcasting multimedia presentations that contain streaming video and audio synchronized with graphics. This addition transforms the room into a webcast studio.

### **Exhibition Hall**

The Exhibition Hall's primary function is to provide visitors with valuable information pertaining to The Frontier Project and the sustainable practices used to build the LEED Platinum Facility. In order to accomplish this, two 26" ELO touch screen displays were mounted in a custom designed kiosk. These displays are programmed to deliver interactive information that informs visitors on the AV housed in the equipment room. Independently they are used to guide individuals through a tutorial. As one, they provide progressive training, moving the visitors from one viewing station to another. On both

sides of the equipment room there are two 42" Mitsubishi LCD's that are wall mounted and used to run The Frontier Project Information content.

Fifteen Sound Tube pendant mount ceiling speakers are hung at equal heights in the exhibition hall in addition the hall features a Christie LCD projector that projects onto a 133' diagonal Draper acrylic screen. This system provides audio and video throughout the Hall for various events.

### **Kitchen**

The Kitchen AV system is used to inform visitors of the GREEN/Energy Star compliant appliances on the market today. A 20" ELO touch panel provides a tutorial on all the appliances providing guests the option of selecting either a complete tour of the appliances or each appliance separately.

### **Living Room**

The Living Room is set up residential style with a 52" Mitsubishi display sitting on a credenza. The display is connected to a Sony DVD player which has a laptop connection. An AMX wireless touch panel control system manages all audiovisual equipment located in the room. In addition, there is an AMX communicating thermostat which includes a 3.5" color display and is fully programmable for automatic scheduling, automatic temperature and relative humidity adjustments, as well as power-outage protection.

### **Second Floor Conference Room**

The Second Floor Conference Room is equipped with a 52" Mitsubishi LCD display for viewing laptop presentations, digital cable TV and DVD's. There is also an AMX wireless touch panel control system used to man-

age all sources within the room.

**Results** - The Frontier Project's AV system disseminates real time building performance information in a format that students, local residents and industry professionals can understand. The innovative AV systems not only track building performance, but also provide visitors with the opportunity to learn about commercial and residential sustainable building features as well as products and service providers.

The building's Combinable Conference Rooms are equipped with a videoconferencing system that can be used by the public and surrounding businesses. The goal is to encourage local businesses to reduce their carbon footprint by using the technology. In addition, this space's rich media recording system acts as a revenue source for The Frontier Project. It allows local organizations, businesses and learning facilities to host seminars and monthly meetings that are recorded and offered as a file that can then be uploaded to their website for public viewing.





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