



## Case Study: Mira Mesa High School

### CCTE Program Teaches Students Video Production at Mira Mesa High School

#### **Challenge:**

The mission of the San Diego Unified School District's College, Career & Technical Education (CCTE) program is to prepare students for their future — college and career ready. But Mira Mesa High School in San Diego CA had a studio production facility that was built in the 1970's (?). The equipment, even when working, was woefully outdated. In addition, the studio had noise issues. There was a power transformer that buzzed loud enough to be heard over the microphones. In addition, the parking lot was right outside the studio door, and the flight pattern for Miramar Marine AFB was right above the studio.

#### **Solution:**

PAC Engineering, as part of the team put together by Delawie Architects, met with teacher James Earnest and CCTE Program Specialist Mike Reynolds to assess the needs, and engineered a state-of-the-art news studio.

The studio itself was redesigned from the outside in to add layers of sound proofing. There was also a sound lock built between the parking lot and studio doors. Now the ambient noise level is equal to any broadcast studio in the country.

Included in the new all High Definition system is a 3 camera studio designed to keep outside noise out and a control room big enough to keep all of the students involved in the daily new production. There is campus-wide fiber connectivity including venues such as the gymnasium, football field, theater, culinary arts classroom and principal's office. They can also broadcast live from the library. Using the fiber field kit, they can broadcast from any of these locations including return video & audio as well as intercom.

The students shoot stories on their new HD field cameras and audio recorders, transfer the files to a shared storage system and edit on new Apple MacPro computers using the latest version of Final Cut. The video server can then access the edited files for live playback for the daily news show.

The students are no longer limited by their old technology. This new system has improved the value of education, sharing of knowledge and collaboration using professional standard broadcast equipment.

#### **Technologies:**

- Ross Video Switcher
- Edit Share Video Server
- Yamaha Digital Mixer
- Apple MacPro Edit Work Stations
- Compix Character Generator
- RTS Intercom System
- Cobalt Distribution and Processing System
- AJA Frame Sync and Processing
- Sony Field Cameras
- ETC Lighting Board
- ReflecMedia Chroma Key Wall
- Hitachi Studio Cameras
- JVC Video monitors
- HighTech Industries Custom Consoles
- JBL Speakers