

Irvine Police Department Mobile Command & Control Vehicle

BACKGROUND

In February 2008, the Irvine, California Police Department commissioned Orange County's first command and control vehicle. The primary objectives for the vehicle include; helping at major traffic collisions, aircraft crashes, hazardous material spills, major crime scenes, crimes in progress, natural disasters, and as a resource for police outreach at community events.

DESIGN GOAL

The 45-foot vehicle, manufactured by Renegade Specialty Vehicles, Bristol, Indiana, required seamless integration of voice, data, and video communications to enable Incident Commanders to coordinate tremendous resources at the scene of an event. The Irvine Police Department needed an integrator who could develop a scalable system that could be upgraded as technology advances and who could complete the project within a tight deadline.

SOLUTION

The Irvine Police Department selected CompView as the integrator for the mobile command vehicle because of CompView's experience in design and installation of command and control systems along with their status as a GSA contractor. During the preliminary design meetings, CompView proposed a number of options to enhance the situational response capabilities of the vehicle.

The final plan for the vehicle included; the ability to capture live video feeds and record video for future viewing, access the internet, and receive broadcast television signals. Within the vehicle, there are four technology enabled areas;

1. The communication and dispatch areas—equipped with multiple 22 inch wide displays for accessing the internet and receiving police report data.



2. The conference room - outfitted with a large 40" NEC LCD display that serves as both a media display and an interactive whiteboard for highlighting tactics.
3. The outside workstation - for accessing media reports.
4. The galley - for housing radio reception and audio visual equipment as well as a communication area with viewing monitors.

The communication room has two dispatch stations and two communication stations. The dispatch stations have a computer and three monitors to view news casts, internet sites, and video as well as a microphone, a police communication radio and telephone. The communication stations are similarly equipped with two display monitors to view news casts, video, or the internet as well as radio dispatching equipment and a telephone.



In the conference room, a PN340 SMART Board for flat-panel displays, allows Incident Commanders to simply touch the display to control computer applications, write in digital ink and save notes. The large NEC LCD4020 40" display with NEC speakers is secured to the vehicle with a Premier Mount PCM MS2 wall mount. This universal mount was selected for its ease of installation and high safety standards.

Integrated into the wall of the conference room is an AMX MVP-8400 8.4" Wireless Touch Panel which provides Incident Commanders with easy one-touch routing and control over all of the audio visual systems. The touch panel features a security system that requires the user to enter a pass code to release the touch panel from the docking station. Once the touch panel display is released from the wall mount it becomes a wireless touch panel providing the Incident Commander with the flexibility to use the device anywhere inside or outside the vehicle.

The outside workstation is located on the same side as the entrance into the vehicle and is revealed when the door to the workstation is folded down. This area holds a 32" Samsung HDTV selected for its thin design and crisp images. The workstation also holds a phone and dispatch radio. This space enables emergency staff to gather around to view the latest news of the event and receive directions.

The galley is located in the center of the vehicle and holds the heart of the audio visual system in two built-in equipment racks. One rack contains the radio communication equipment, network components and off-air helicopter decoders. The second equipment rack contains the audio visual equipment routers and decoders. CompView selected the AMX/Autopatch Modula series of routers because this system is capable of routing RGBHV from eight interfaced operators, dual screen computers, and conference center PC's, component video from satellite receivers, and video sources along with stereo audio to all areas of the vehicle, both internal and external. Access to the Orange County MESH video network is made possible by VBrick MPEG4 decoders. These systems were chosen for their network bandwidth friendly requirements and capability to provide real-time video from the wireless MESH network. The galley also contains two more communication stations with small overhead monitors for viewing live video feeds from cameras outside the vehicle.

The Irvine Police Department Mobile Communication vehicle is equipped with optimum audio visual systems for situational response and serves as the most advanced technological emergency communications vehicle in Orange County.

REGISTERED AND BONDED

- Oregon CCB#134110, 34-514CLE
- Washington COMPVI*O15DT, COMPVVI961CD
- California C-7#778555



800.448.8439 www.compview.com

PORTLAND • SEATTLE • SAN FRANCISCO • LOS ANGELES • SAN DIEGO • SALT LAKE CITY • MINNEAPOLIS