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Providing Increased Video Access and Flexibility to Utah Department of Transportation

Background

The Utah Department of Transportation's Traffic Operations Center is responsible for the behind-the-scenes tech that allows for safe and reliable transportation across the Beehive State. The Traffic Operations Center provides updates 24 hours a day, seven days a week, including traffic and congestion information as well as road, weather, crash, and construction impacts. The center provides computer-directed traffic cues, accident management on major highways, authority over electronic signage and more, all in an effort to keep Utah's roadways as secure and informed as possible.

UDOT's Brent Parker, Project Manager, enlisted the expertise of Dalton Parker, Chief Technology Officer for TVS Pro, to design and install a replacement of 3 rear projection screens- two single side displays and one 4x3 main display - with three direct view LED walls.

With a strong grasp on what the UDOT was looking for to enhance their Traffic Operations Center (TOC), TVS Pro reached out to leading display solutions providers, including Sharp, to get the job done.

The Ask

TVS Pro was tasked with designing and implementing a new system to route all of UDOT's 1,700+ cameras to multiple screens throughout the Traffic Operations Center. As the tech needed to run flawlessly 24/7, 365 days a year, TVS Pro knew it was essential to incorporate products the state could count on.

The Challenge:

Over the last 30 years, CCS Presentation Systems has become one of the largest AV integration groups in the U.S., growing from two employees to over 350 with offices in 17 states. Recently, CCS designed and built a new, innovative technology-focused national headquarters that showcases the organization's advanced AV design capabilities/services. They needed a wow factor for their lobby.

Solution:

Two LED Walls to make a 90-degree corner unit: NEC LED-FE-015i2-137 dvLED 1.5mm pitch video wall comprising 137" diagonal at 1920 x 1080 FHD resolution NEC LED-FE-015i2 dvLED 1.5mm pitch video wall comprising 10.22' x 5.61' at 1920 x 1080 FHD resolution

Result:

The new CCS headquarters' environment offers the perfect setting for hosting events and seminars with highly collaborative and modern features, including a two-story lobby opening out to a multi-functional indoor/outdoor café event space and training center. Large glass movable walls and an oversized garage door led to an outdoor amenity patio that can quickly transform the area into an event space large enough for more than 250 guests. The installation of the NEC dvLED video wall accentuates the company's passion for stunning technology that delivers impressive results.



The need for functionality, flexibility and customization was easily found with NEC displays. With Sharp's strong reliability, unbeatable quality, and supportive customer service in mind, TVS Pro installed two 110" diagonal direct view LED displays for the upper video walls, and one 22'x13' video wall for the main wall to ensure large, detailed imaging even amid foggy weather, snowstorms and heavy rain. The 1.2mm pixel pitch of NEC's dvLED provide an ultra high definition view of UDOT's camera footage, providing some of the clearest and most detailed visuals possible, which are crucial during emergency situations.

With the previous displays, the team was limited in their ability to increase or decrease the size and layout of their video feeds. The team wanted to have the flexibility to change and alter their view, with abilities to modify pixelation, brightness and layout, giving them better coverage during emergencies, snow and other weather events by granting them the ability to view multiple video sources at once. With this new installation, the UDOT can easily view any traffic cameras across the entire state of Utah – that's 1,700 cameras on roads, providing 1,700 views of the streets. No longer was the team limited to fixed sizes of available videos and images, but they now had the ability to scale to different sizes based on the needs of varying emergencies. The new technology now provided the UDOT team with crystal clear vision into vehicle crashes, highway fires, snowstorms hindering views, and more, allowing for better help during some of the worst times.

Technology-Based Solutions

TVS Pro's Dalton Parker shared that the project were "plug and play" and his team had a seamless and positive experience utilizing

NEC products. According to him, UDOT was extremely happy with the outcome and products used and the entire operation, "could not have gone more smoothly."

"This has been an incredible process," stated Parker. "We are so proud to have provided this service for the UDOT and have a small hand in keeping Utah's roadways safe. This couldn't have been possible without NEC products and guidance from their team."

The TVS Pro team also noted that they did not have a time-consuming setup configuration, calibration, or troubleshooting in order to get switching to work. Once all of the devices, including an Extron IPCP Pro 360Q xi Control Processor, various NovaStar products, and more were benched, powered on and named, all worked flawlessly together, making the process efficient and instilling confidence in the technology that is now supporting traffic management for the entire state of Utah.

"I'd use these products again every time," said Dalton Parker. "This process was easy, flexible, and consistent, along with the ability to easily add or expand, which could not have been done with a traditional fixed chassis video switching system."

Equipped with a revamped, versatile system, UDOT's Traffic Operations Center has an entirely new skill set of capabilities available to ensure clear visuals and operations in case of an emergency.



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