

Success Case

Costex Tractor Parts Deploys a Complete Dahua Security System in Its New Headquarters

Costex Tractor Parts of Miami, Florida is a forty-year-old distributor of replacement parts and engines for Caterpillar and Komatsu heavy equipment.

When they were preparing to build a new, 350,000-square-foot headquarters in Miami, Florida, they knew they needed a state-of-the-art security system designed, installed, and configured specifically for the facility.

It contracted E.G. Telecommunications & Technologies, a security and telecom installer, to deploy **a complete Dahua security solution** that was scalable, easy to use, and dependable.



Challenges

Before construction began, Evaristo Galvez, founder and president of E.G. Telecommunications & Technology (EGT&T), laid out a blueprint for the new security system. Due to the facility's massive square footage, which includes offices, a warehouse, and a parking lot, he decided to use fiber optic cable.

"The system is so huge I had to design it with fiber optics – I needed to cover distances of 600-800 feet," he explained. "In the end, we installed 20,000 feet

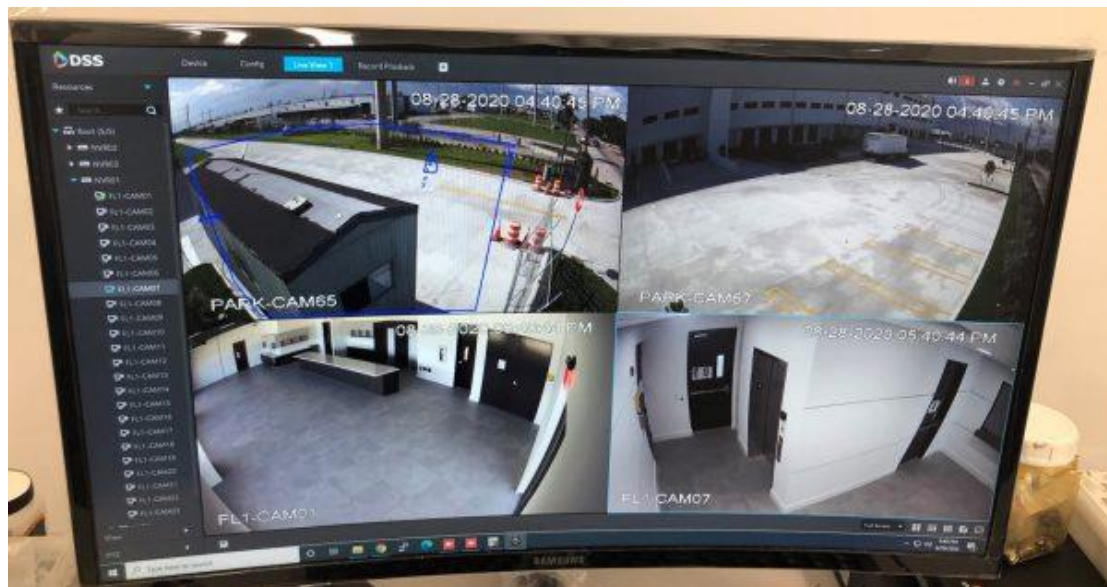
of fiber."

Another effect of such a large building was that while it needed a lot of camera coverage, Costex wanted managers of each division to be able to access only the cameras that covered their respective departments. At the same time, Costex's owner and CEO wanted to be able to access all the cameras from the comfort of his office.

Additionally, Costex wanted to implement a system that was scalable – as their facility grew, they wanted to be able to easily add more cameras and storage devices and integrate them seamlessly with the existing system.

Solution

Dahua had worked with EGT&T before and became the first choice for this project because of its high-quality products, economical price, and dependability.



Once he designed the system, Galvez turned to Luis Gomez and Greg Larson of Dahua Technology USA for product recommendations. Not only did they provide guidance on which devices would be best for the job, but they also visited Costex with him to do product demos, and they were able to offer bilingual English-Spanish support.

In the end, Galvez deployed a full Dahua system including 190 IP cameras, recorders with a total of 256 channels of recording, a Digital Surveillance System (DSS) Server (DHI-DSS4004-S2), an Extended Video Server

(EVS) (DHI-EVS5016S-R), and thirteen switches of either 16 ports (DH-LR2218-16ET-240) or 24 ports (DH-LR2226-24ET-360).

These transmission devices are layer 2, managed, PoE switches that have two 1000 base combo ports and two 10/100/1000 base T-ports compatible with fiber or Cat5e/6. Galvez chose these switches due to their fiber capabilities and straightforward integration: they integrate with the web management portal to make system supervision easy, and the Discovery feature lets the switches discover cameras and recorders quickly and automatically.

Dahua's DSS Express allowed Costex managers the access they needed to manage their specific departments. "We were able to provide nine client stations, each with the capability to access about 20-30 cameras that covered their department – and not access cameras of other departments," explained Gomez. "Each manager had access to their own cameras in their office on a 50" TV with a client PC attached. At the same time, the Costex CEO was set up in his office so that he could pull footage from any camera."

The DSS platform will let Costex access remote locations from the main location as their footprint gets bigger – Costex plans to expand into two more buildings and is already adding more cameras. With nearly 200 cameras, storage capabilities and reliability are crucial. The total storage requirement will be more than 240 TB. Upon Dahua's recommendation, Galvez added a 16 HDD EVS (DHI-EVS5016S-R) to the system to create redundancy.

"This gave Costex a failover recording system," said Gomez. "If anything happened to any of the NVRs or the mainframe, this lets them keep recording." The 32-channel NVRs (DHI-NVR6A08-32-4KS2), each of which has a built-in storage of 24TB and can accommodate up to 4K resolution, also have full redundancy on their hard drives. Gomez highlighted the significance of this configuration: "If there is any damage to one NVR, you only sacrifice 32 cameras. We made sure that each recorder was receiving inputs from cameras in multiple departments – so if an NVR failed, Costex would never lose all the footage from a single department."

Results

"When a company gives you three years' warranty for replacement and two more years for repair, that means you can count on them," Galvez remarked.

"I appreciate the support I get from Dahua," Galvez said. "They came with me to the building when I started working on the deal – their live demonstration

was really important. When spec-ing a project, you can write everything on paper, but people want to see reality. Dahua came with a demo system, and Costex got to see everything."

"We were excited to be a part of it from the beginning," Larson remembered. "Everything in the building, from the light switches to where the cameras go, was very thoughtfully planned out. Costex's leadership team was very detailed in knowing everything that was going in that place, and we wanted to create a reliable system that met complex needs while being easy to use."

Costex immediately noticed the benefit of their new Dahua system. During the construction of their new warehouse, a window shattered. Using the Smart Search feature of the NVR, they were able to efficiently pull the incident out of three days' worth of footage and prove that the window had broken on its own – and then claim the warranty on it. They also caught a construction worker causing damage and shared the incident with the construction company.

"Everything has been working perfectly, and the system is reliable. Dahua gives us great support here: in no more than 24 hours, we can fix anything having to do with the cameras," remarked Galvez.

From being able to assign camera access to specific users, to knowing that their video data is backed up twofold, to being able to easily scale, Costex was happy with their Dahua solution, Galvez reported.

Costex was happy with EGT&T as well: they awarded the company with a certificate recognizing their outstanding work. "In appreciation of their valuable contribution in the construction of the Costex Tractor Parts headquarters," it read. "Thank you for helping make our dream a reality."

-ENDS-

About Dahua Technology

Dahua Technology is a world-leading video-centric smart IoT solution and service provider. Based on technological innovations, it offers end-to-end security solutions, systems, and services to create values for city operations, corporate management, and consumers. With more than 22,000 employees (over 50% engaged in R&D), Dahua has deployed its products, solutions, and services in 180 countries and regions, covering key industries including smart city, traffic management, retail, banking & finance, energy, etc. Since 2014, Dahua Technology has been estimated to be the world's second largest supplier of video surveillance equipment and has been ranked 2nd on the a&s Security 50 list for 4 consecutive years.



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