17 Days to Design and Install A Parking Lot Security Solution

Case Study

PROBLEM

Universal Technical Institute, a nationwide trade school, was left vulnerable not having adequate security camera coverage at the Los Angeles college campus that included 12 entrances and a faculty and student parking lot. Like most parking lots, no security cameras or cabling infrastructure was installed during initial construction.

One of the biggest problems that would need to be addressed is the power limitation in the parking lot. In order to provide security camera coverage, the cameras would need to be powered and there was no budget to or time to accommodate construction like trenching to deliver power through-out the parking lot. A battery solution using the light standards would need to be engineered.

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SOLUTION

Empire Technologies came out to the facility to survey and design a solution that met the customers' criteria.

The solution entailed installation of the following equipment:

- 12 wide dynamic range cameras
- 6 180 degree 8 megapixel high definition IP Cameras
- 3 high throughput wireless transmitters
- 1 high throughput wireless receiver
- 3 outdoor Battery back-up units
- 3 277VAC to 120VAC step down transformers
- 4 power over ethernet network switches
- 4 Digital video recorder expansion units
- 1 Network Video Recorder

UNIVERSAL TECHNICAL INSTITUTE
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Problem:
Deploy security camera coverage across a college campus with 12 entrances and 2 parking lots in less than 17 days.

Solution:
Empire Technologies surveys and engineers a viable solution including a light pole power solution to provide parking lot coverage.

Results:
After devising a solution to power the light standards and provide battery back-up, the entire solution was deployed with a few days to spare.

EMPIRE TECHNOLOGIES

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RESULTS AND OUTCOME

To avoid the time and costs necessary for trenching and construction in the parking lot, high throughput wireless transmitters were used to transport video from the pole back to the network video recorder located in the server room—a distance of almost a quarter mile.

The existing light poles in the parking lot utilized 277VAC power, which was not usable and required the installation of a step-down transformer to 120VAC. Because the power is controlled by a photocell, the power is only on during the night hours, so a battery back-up system was installed on each pole to keep the cameras operational during the day while power in the pole is off. When the power is turned on at night, the batteries charge so they can provide power for the next day.

The solution was installed on budget and on time with 3 days to spare.

"Empire is dependable. They show up when they say they will, they have a good solid game plan for what they will accomplish and are very realistic and accurate. "

Josh Williams, Facilities Director, Universal Technical Institute