



Video Solutions for Security Professionals™

## CASE STUDY



### At a Glance:

**Market:**

Large Infrastructure

**Location:**

Arizona

**Application:**

Ubiquiti and Unmanaged PoE Switches used to connect a comprehensive system.

## Case Study: Wireless Solution for RV Storage Lot

### Introduction

When people place their personal belongings into a storage facility, they trust their belongings are safe with the highest form of security. One Arizona storage facility wanted to secure the RV storage area behind more than 200 storage units. The area is gated, but since the RVs stored there are not in use, break-ins and even vandalism are likely to happen. A surveillance solution needed to be powerful enough to transmit coverage to such a large area, and offer clear forensic evidence should a crime in the RV area occur. The installer wanted to ensure the front management office had surveillance of the back RV area at all-times with a reliable signal.

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### Featured Products:

(CMIP9753-SZ) Platinum Motorized Lens Bullet Network IP Camera 5MP

(LTN8916-P16) Platinum Enterprise Level 16 Channel 4K NVR 1.5U

(POE-SW1602) 16-Ports 100Mbps Unmanaged PoE Switch

(POE-RP101) PoE Single Port Repeater

(DHWD50PURX) Western Digital Purple Surveillance

### Challenge

The far distance between the front management office to the back RV area forced the installer redraft his original plan of running coax cables for a HD-TVI system through the facility. The total distance from the front to the back area is 2,000ft. A typical coax cable run is about 1,500ft., short by 500ft for this project. Since the area was too large, another solution was needed that included an upgrade to network IP and wireless access. The system needed to support 16 cameras without dropped network connections for full surveillance coverage.

### Solution

The installer sought support from a LTS security consultant. He suggested utilizing an Ubiquiti Nano to wirelessly transmit video signal the 2,000ft from the transceiver in the RV area to the receiver in the front office. A 16-Port 100Mbps Unmanaged PoE Switch, POE-SW1602, was feeding video signal to the transceiver. The switch with extend mode 'on' is capable of transmitting video and power up to 820ft to a PoE Single Port repeater, POE-RP101

which offered another distance of 100ft to power 12 Platinum Motorized Len Bullet Network IP Cameras 5MP, CMIP9753-SZ, placed throughout the back area to monitor the RVs. A Platinum Enterprise Level 16 Channel 4K NVR 1.5U, LTN8916-P16 utilized a Western Digital Purple Surveillance Hard Drive – 5TB, DHWD50PURX, to capture forensic evidence in the RV area.



### Results

In the end, the installer completed the job to the standards of the customers' needs. They also saved them money by eliminating the coax cable runs which cost more in labor.

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