



Video Solutions for Security Professionals™

CASE STUDY



Case Study: Four-Acre Facility Upgrades Surveillance

At a Glance:

Market:

Large Infrastructure,
Education

Location:

Phoenix, AZ

Application:

End-to-end surveillance for
34,000 square foot facility

Introduction

Arizona Sunrays Gymnastics & Dance serves the community of Phoenix, AZ by empowering individuals through fun and fitness. They provide quality dance and gymnastic programs to boys and girls ages six months and up. Over 25 years, enrollment grew and allowed the Sunrays to move into a 34,000 square foot, state-of-the-art facility. The four-acre space includes three dance studios, parking lot, restrooms/changing facilities, viewing areas, café and gift shop.

Moving into a larger facility and growth in class size required the Sunrays to upgrade their surveillance systems to a more advanced and comprehensive solution. Safety is the primary concern for the Sunrays, so they wanted to ensure parents that their students are always safe. The Sunrays needed a solution that could monitor the massive space while deterring break-ins, vandalism, kidnappings and other potential hazards.

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Featured Products:

(LTN8932) Platinum Enterprise Level 32 Channel NVR

(DHWD100PURZ) 10TB Western Digital Purple Surveillance Hard Drive

(CMIP7243-SZ) Platinum Motorized Varifocal Vandal Dome Network IP Camera 4.1MP

(CMIP7422-M) Platinum Motorized Varifocal Vandal Dome Network IP Camera 4.1MP

(LTPTZIP212X20) Platinum IP PTZ High Speed Dome 1080P

Challenge

Due to the vast space, obtaining total coverage of the facility and ensuring no blind spots was the initial challenge. Finding a way to connect all the cameras across 34,000 square feet to a single recorder proved to be a difficult task. Another challenge was finding a solution that was able to scale higher bandwidths needed by 4MP cameras. Lastly, the installer was faced with finding a solution that could provide clear forensic evidence in large, low light to dark areas such as parking lots.

Solution

Achieving complete coverage of the Sunrays facility, while keeping budget in mind, was done by implementing IP technology, opposed to analog. IP technology can sustain scaling higher bandwidths necessary for 4MP cameras.

Twenty-eight cameras were connected to the Platinum Enterprise Level 32 Channel NVR, LTN8932, installed with four 10TB Western Digital Purple Surveillance hard drives, DHWD100PURZ. Eleven Platinum Motorized Varifocal Vandal Dome Network IP Camera 4.1MP, CMIP7243-SZ, were installed within the facility to utilize the camera's varifocal motorized lens and audio input/outputs. Sixteen

Platinum Fixed Lens Dome IP Camera 2.1MP, CMIP7422-M, were installed outside the facility, taking advantage of its 30 IR LEDs for night surveillance up to 100 feet. Lastly, one Platinum IP PTZ High Speed Dome 1080P, PTZIP212X20, was installed inside to provide parents in the viewing area full view of the facility.



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Results

The Sunrays were very pleased with the solutions recommended by the installers. A total of 28 cameras were used for this project. The Platinum Enterprise Level 32 Channel NVR provides parents with live camera feeds throughout the facility. The motorized varifocal lens of the cameras gives parents an up-close view of their children with fine detail. Audio inputs/outputs allow the parents to hear what's happening. Discussions to upgrade surveillance at the Sunrays' second facility in Arcadia, AZ are currently underway.

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