



Video Solutions for Security Professionals™

CASE STUDY



At a Glance:

Market:

Retail/Commercial

Location:

Wilmington, Del.

Application:

Sophisticated IP security system needed for new warehouse store.

Case Study: Installation of more than 100 cameras at ShopRite

Introduction

Success has taken ShopRite from a small, struggling cooperative with eight members to one of the largest retailer-owned cooperatives (co-op) in the United States and the largest employer in New Jersey. Wakefern Food Corp., the merchandising and distribution arm for ShopRite, operates over 2.5 million square feet of grocery and non-food warehousing. Their transportation fleet is one of the largest private fleets on the East Coast, comprised of 400 tractors and 2,000 trailers, and travels more than 35 million miles annually. Today, Wakefern and ShopRite together

employ more than 50,000 people and serves communities in New Jersey, New York, Connecticut, Pennsylvania, Delaware, and Maryland. The co-op was opening a new location in Wilmington, Del. and required a sophisticated IP surveillance system for their newest store. LTS was brought on-board to assist in monitoring customer and employee safety and mitigating product loss.

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Challenge

ShopRite was offered several bids for the projects by installers. There were several key stakes that allowed LTS proposal to have won. The warehouse consisted of very high ceilings and open space where walls were scarce for direct wires and installation of the cameras. It needed a comprehensive wiring plan to still achieve an aesthetically appealing and discreet result. The building also had a large parking space with a total of three entrances and exits for customers, two back door exits for employees, and two loading docks for inventory deliveries.

Featured Products:

(CMIP7442-28M) Platinum Fixed Lens Dome Network IP Camera

(PTZIP212X20) Platinum IP PTZ High Speed Dome 1080P

(PTZIP512X20IR) Platinum IP PTZ High Speed Dome Camera 2.1MP

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

(LTN8932) Platinum Enterprise Level 32 Channel 4K NVR 1.5U

Solution

More than 100 IP cameras were strategically planned out in the warehouse to deliver the highest resolution with the minimum number of cameras for total coverage. A total of 80 Platinum Fixed Lens Dome Network IP Camera, 4.1MP, CMIP7442-28M were used for 2.8mm wide angle coverage. It was wired down with poles and placed in the center of aisles facing opposite ends giving Shoprite optimized angle of view down all shopping aisles without any blind spots. To cover large main aisles around the store, seven Platinum IP PTZ High Speed Dome 2.1MP, PTZIP212X20, were used including mount brackets for the walls to obtain the full 360° rotation feature. Three used wall mount brackets, four were in-ceiling mounted to create a more discreet look. A total of 21 Platinum Motorized Varifocal Vandal Dome Network IP Camera 4.1MP, CMIP7243-SZ, were used for cashiers and checkout lines. The open floor plan of the checkout area allowed motorized lens to capture any suspicious behaviors and ability to zoom for forensic details when needed. The cameras were placed above cashiers, cash registers, and behind counters of customer service. ShopRite used five Platinum IP PTZ High Speed Dome Cameras 2.1MP, PTZ512X20IR, which were especially appealing due to the black lens front panels and Matrix IR 2.0 technology giving

the cameras ability to see in the dark, up to 395ft when needed. Three cameras were installed near the three main entrances for customers. One was installed by the back doors, and another was installed to cover of the loading docks.

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To operate all the cameras, five Platinum Enterprise Level 32 Channel 4K NVR 1.5U, LTN8932 were used to record activity in the warehouse. Although the solution did not use all 160 channels, the decision was to maximize the NVR bandwidth capacity of 256Mbps to provide seamless streaming of the 4MP IP cameras.



Results

LTS was able to not only provide higher resolution network solution for an affordable cost, the solution used minimal cameras with full coverage. The cooperative was satisfied with the result and the ease of how five NVRs were all able to connect to one NVMS7000 giving the security and monitoring center user friendly interfaces. With two more ShopRite opening, our installer is going in with a strong success story and coverage of one.

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