



Video Solutions for Security Professionals™

## CASE STUDY



### **Case Study: Marina Uses LTS IP Solutions in Aftermath of Hurricane Sandy**

#### **At a Glance:**

##### **Market:**

Cities, Large Infrastructure

##### **Location:**

Neptune, NJ

##### **Application:**

Surveillance to monitor marina and docked boats

#### **Introduction**

Although the township of Shark River Hills was hit by Hurricane Sandy for a brief period, the magnitude of damage it inflicted was astronomical. The small town experienced severe river flooding, leading to the destruction of local businesses, numerous homes and the marina. The municipal marina sustained the heaviest damage, wiping out two marina buildings and displacing boats throughout town. Four years after Hurricane Sandy destroyed the municipal marina offices that sat on the waterside of the Shark River, a new facility was erected across the street in

2016. Located in the Shark River Hills section of Neptune, NJ, the new 7,779 square foot municipal marina oversees all boats that come into the inlet and provides services for boaters and the public.

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After Hurricane Sandy destroyed the Shark River Hills Municipal Marina, an entirely new surveillance system needed to be installed; the harbormaster required a solution that could monitor the expansive marina and over one hundred docked boats.

### Featured Products:

(LTN8932) Platinum Enterprise Level 32 Channel NVR

(DHST6000VX0023) Seagate Skyhawk Surveillance Hard Drive - 6TB

(CMIP3042W-28) Platinum Fixed Lens Turret IP Camera 4.1MP – 2.8mm

(CMIP9743W-SZ) Platinum Motorized Varifocal Bullet IP Camera 4.1MP

(LTUBNBM5-16) 5GHz NanoBeam M5 16dBi

### Challenge

Due to the unique geography of the marina, utilizing hardwires to connect the entire surveillance system would be too costly and complicated. The vast distance between the cameras and NVR needed a solution that could emit a consistent signal strong enough to establish a connection. Drilling through the asphalt road that separated the marina from the main facility would exceed the project's budget, so finding a solution capable of powering and connecting the surveillance system would prove to be a difficult challenge for the installer.

### Solution

Eight Platinum Fixed Lens Turret IP 4.1MP (CMIP3042W-28) cameras were installed around the perimeter of the building, connected to a Platinum Enterprise Level 32 Channel 4K NVR 1.5U (LTN8932). A 6TB Seagate Skyhawk Surveillance Hard Drive (DHST6000VX0023) was installed onto the NVR to provide ample storage and support playback up to 12MP (3072x2048).

To overcome the obstacle of connecting the surveillance system to the NVR, installers implemented a mesh-network design, utilizing three Ubiquiti Networks 5GHz NanoBeam M5 16dBi (LTUBNBM5-16) receiving-antennas as access points and grouping them onto ten poles, each with Ubiquiti NanoBeams, scattered throughout the marina. The ten poles were used as stations, with one to three Platinum Motorized Varifocal Bullet IP 4.1 MP (CMIP9743W-SZ) cameras installed onto each station, powered by a power-over-ethernet (PoE) switch (POE-SW1602). The mesh-network design ensures that each station is receiving sufficient power to provide a consistent signal, capturing valuable forensic footage and reducing critical data loss.

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### Results

Twenty Platinum Motorized Varifocal Bullet IP 4.1MP cameras, eight Platinum Fixed Lens Turret 4.1MP cameras and 13 Ubiquiti Networks 5GHz Nanobeam M5 16dBi were implemented on this project. The customer was very pleased that the installer was able to stay within budget, given the complicated conditions. A stable connection from the cameras to the NVR was established without costly drilling or heavy construction with the use of Ubiquiti NanoBeams and PoE switches. End-users were impressed with the clarity and wireless capabilities of the solutions, frequently utilizing the NVR's Live View feature and camera's ability to zoom-in to capture vital forensic details. The application's design monitors the entire marina without degrading picture quality, with reports from the customer that security at the marina has been substantially improved.

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