

## Critical Infrastructure - HD Coastal Surveillance

### San Diego's Mission Bay Area



San Diego's Mission Bay area is the largest manmade aquatic park in the country, consisting of 4,235 acres (17.14 km<sup>2</sup>), approximately 46% land and 54% water. The combined area makes Mission Bay the ninth largest municipally-owned park in the United States.

#### Challenge

The City of San Diego applied for and was awarded funding provided by the Federal Urban Area Security Initiative (UASI) for a

video surveillance system. The award was determined through an analysis of relative risk of terrorism faced by the 100 most populous metropolitan areas in the United States in accordance with the 9/11 Act.

The UASI goals are to increase regional capability to protect Critical Infrastructure/Key Resource assets through deployment of security/surveillance equipment to provide increased protection from waterborne terrorist threats and criminal activity north of San Diego Harbor.

#### Solution

Due to the critical nature of the video system, the harsh coastal/marine environment and high reliability requirement for the system, CohuHD's Helios cameras were selected.

Mission Bay has a vast area and long line-of-sight distances. CohuHD's 3960HD positioner cameras are fully up to the task of covering these, providing detailed HD imaging, powerful optical zoom lenses, and continuous 360° panning. These maximize the coverage area at each camera location.

The main channel of Mission Bay leading to the Pacific Ocean is monitored by CohuHD's 5970SD Series thermal positioner camera, fitted with a LWIR 640x480 bolometer and 100mm lens for long-range night vision capability.

#### Video Management Integration

Integration of the CohuHD Helios camera with the Video Management System (VMS) utilizes the non-proprietary, industry standard ONVIF protocol, providing full service capabilities for viewing, recording and camera control capabilities without the need of dedicated and proprietary device drivers.



CohuHD's 5970SD Series thermal positioner camera monitors the Main channel



## Results

The Helios camera video and PTZ control are streamed over a wireless mesh radio network between the camera and the San Diego lifeguard headquarters in Mission Bay. The San Diego lifeguard service is the lead agency overseeing and performing the primary monitoring of the cameras. The Bay is monitored for various types of crime, terrorist activity, public safety incidents, marine accidents, and for assessment and deployment of proper services for resolution of these events.

Darren Pudgil, San Diego Mayor's Spokesperson, explains that the video surveillance cameras serve as a vital evidentiary tool while also forestalling crime in the area. "There are hundreds of thousands of people who visit Mission Bay and there are criminal incidents there and there's potential for terrorism too." With enhanced surveillance, San Diego Police, lifeguards, the Coast Guard, and the Department of Homeland Security will have direct access to the video footage, allowing them to monitor any suspicious activity.

## General Information

### Agencies

- Department of Homeland Security
- San Diego Life Guard
- San Diego Police Department
- US Coast Guard

### Equipment

- Fourteen (14) CohuHD 3960HD High Definition Camera Positioners
- One (1) CohuHD 5970SD 640x480 LWIR Thermal Camera Positioner
- Network of Firetide Wireless Mesh Communication Backbone
- ONSSI Ocularis VMS System
- ONVIF Camera/VMS Integration

## About CohuHD Costar™

[CohuHD Costar™](#) is a leading manufacturer of high-definition video surveillance camera systems designed for the performance requirements associated with critical infrastructure applications and is now part of [Costar Technologies, Inc.](#)

CohuHD Costar solutions integrate the latest high-definition video imaging and compression technologies into our ruggedized camera products. CohuHD Costar is a high-value, solutions provider for monitoring in the most critical, sensitive environments. We focus on providing the most reliable, rugged, outdoor PTZ cameras in the market. For more than 50 years, we have manufactured in the U.S. the most reliable, rugged video cameras available.

For more information on CohuHD's products, please visit [www.cohuHD.com](http://www.cohuHD.com). Follow us on [youtube.com/cohuhd](http://youtube.com/cohuhd), [twitter.com/cohuhd](http://twitter.com/cohuhd), [linkedin/company/cohuhd](http://linkedin/company/cohuhd), and [facebook.com/cohuhd](http://facebook.com/cohuhd).

## References

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