

CASE STUDY

Hoover Dam, Nevada Critical Infrastructure Security

Situation

The Hoover Dam is a national landmark and the highest concrete dam in the Western Hemisphere, rising more than 725 feet above the Colorado River. With 17 generators producing 4 billion kilowatts of electricity a year, it also is one of the largest hydroelectric power facilities in the United States.



Problem

Keeping boaters, fishermen, and intruders away from the dam's Lake Mead restricted water area are safety and security priorities for its operator, the Bureau of Reclamation.

The bullhorns and commercial marine P.A. systems dam patrol boats are equipped with have limited broadcast range and poor voice intelligibility. Manned patrol boats are also resource intensive to operate and don't provide 24/7 coverage.

Solution

Hoover Dam installed LRAD long range communication and security systems equipped with integrated cameras, high-intensity searchlights, and robust, IP-addressable full pan-and-tilt drives for precise aiming and tracking.

LRAD pan-and-tilt systems are remotely monitored and activated from a central command and security center to provide 24/7 surveillance and a highly effective first response capability.

Broadcasting powerful warning tones and highly intelligible verbal commands out to 3,000 meters, LRAD systems keep boaters and intruders away from the dam and its Lake Mead restricted water areas.



Protective Communications

LRAD 950NXT

Integrated Surveillance, Security & Response

Utilizing technology developed and patented* by Genasys, the LRAD 950NXT's ability to identify and interact with targets from a distance provides security personnel the additional time and information necessary to accurately assess situations and appropriately scale responses.

Live or recorded voice broadcasts from the LRAD 950NXT are clearly heard and understood over crowd, engine, and other background noise out to 3,000 meters.

Featuring an integrated HD camera, high-intensity searchlight (optional), and robust, IP addressable full pan-and-tilt drive, when integrated with radar or motion sensors the LRAD 950NXT provides automated intruder alerts and becomes a fully functional, unmanned perimeter security and first response system.

The LRAD 950NXT is operated using Genasys Protect controller software. The software's comprehensive functionality and easy-to-use controls enable personnel to identify targets on the live video feed, quickly position the 950NXT's pan-and-tilt system, and broadcast powerful warning messages and tones from the safety of a command and control center.



Because of its automated capabilities, the LRAD 950NXT reduces manpower and false alarms, resolves uncertain situations, and provides a highly effective, cost efficient security solution.

LRAD is unique in its ability to deliver live or recorded voice messages in any language, with exceptional vocal clarity, in any type of environment.

Genasys

Global Provider of Protective Communications Solutions

Protecting people and saving lives for over 40 years, Genasys Protect covers more than 155 Million people in over 100 countries worldwide.

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