Protecting Cultural Heritage Sites With Integrated Security Solutions

IDIS

Industry
Cultural Landmark

Customer
Israeli Heritage Sites

Region
Israel

IDIS Partner
Specialty Israeli Integrator

Background

Preserving insights into past civilizations and cultures

Archaeological sites are irreplaceable windows into our past, containing treasures that tell the story of human civilization. However, these precious locations face constant threats from robbers and vandals who seek to profit from stealing or destroying cultural heritage. Traditional security measures often fall short, especially in remote locations where conventional surveillance is impractical or could damage the site itself.

Challenges

Protecting remote and expansive archaeological sites

Protecting archaeological sites presents unique challenges that set them apart from typical security applications. These sites often span huge areas – in this case, several square kilometers. Unlike securing a building with defined entry points, archaeological sites are vulnerable from all angles. Robbers, equipped with modern tools and technology, have become sophisticated in their attempts to steal from these sites. They often operate at night, using careful methods to avoid detection, and target specific areas known to contain valuable artefacts. The damage they cause isn't just the stolen items – their digging can destroy the crucial archaeological context that helps us understand how our ancestors lived.

Solution

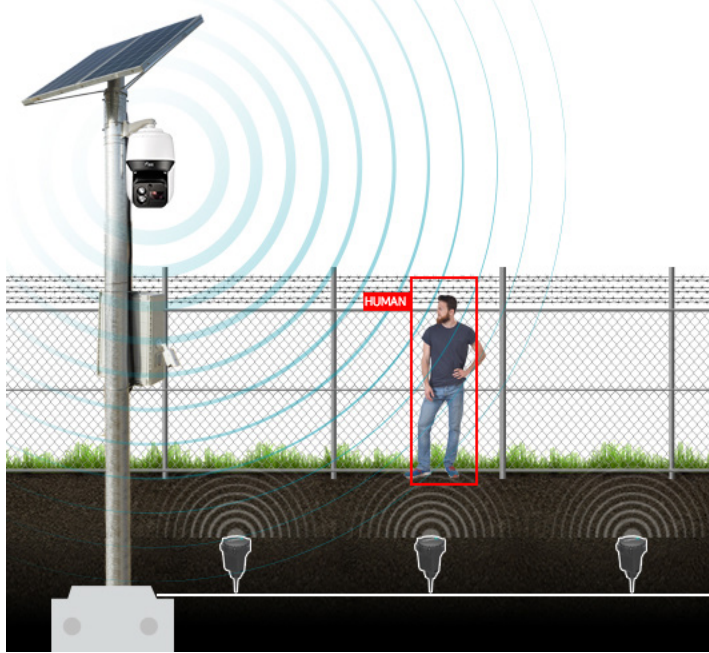### An innovative solution creating an invisible shield

To address these challenges, we implemented a security solution that combines multiple technologies to create an invisible shield around the site. The site has been divide to 6 zones each zone contain up to thirty SensoGuard AIO XR seismic sensors and one IDIS AI PTZ camera working seamlessly to provide proactive protection across the site.

The AIO XR sensors buried underground act as an invisible early warning system, capable of detecting even the slightest disturbance over and under the ground, whether it's footsteps, vehicle movement or digging. At the same time, advanced IDIS AI PTZ cameras mounted on robust poles provide 'eyes in the sky.'

The AI PTZ cameras feature 36x zoom, automated AI tracking, and night vision up to 1,300 feet, making them ideal for expansive archaeological sites. Each pole contains IDIS AI PTZ camera and bullet camera to protect the pole, powered by solar energy with 4G-LTE cellular connectivity. Both IDIS cameras feature IDIS Deep Learning Analytics (IDLA) on the edge.

Working together seamlessly, when a seismic sensor detects potential intrusion, the nearest camera automatically rotates to focus on that exact location of the event. The built-in AI analytics help verify the threat, distinguishing between harmless wildlife and genuine security concerns. The integration of these technologies creates several powerful advantages:

IDIS AI Solutions

False Alarm Reduction

- **Instant Response:** When the seismic sensors detect movement, cameras respond in less than a second to provide an immediate visual verification.

- **Environmental Harmony:** Solar-powered equipment and wireless sensors mean no power lines that could damage the site while protecting its cultural heritage.

- **Intelligent Analytics:** IDIS built-in AI analytics helps reduce false alarms, ensuring that only genuine threats are received and responded to by the security team.

- **Complete Coverage:** The strategic placement of sensors and cameras ensures no part of the several square kilometers site goes unmonitored.

Results and benefits

Preservation of cultural identity for future generations

This security solution has transformed an ancient site's protection into a modern-day success story. The system provides:

- **24/7 Monitoring:** Regardless of weather or lighting conditions

- **Non-invasive Protection:** Security without compromising the site's integrity

- **Rapid Response Capability:** Immediate alert and verification system

- **Sustainable Operation:** Solar power ensures continuous operation with minimal maintenance

The installation demonstrates how modern technology can be help to preserve our past for future generations. The system's scalable nature means it can be expanded or modified as needs change, ensuring long-term protection of this invaluable cultural heritage site.

> *After collaborating with IDIS, we're delighted to have developed a proven integrated security solution that reduces false alarms to ensure quick response to threats, utilizes green-energy, and provides complete surveillance coverage, to effectively safeguard heritage and archeological sites that preserve past civilizations, their practices, and their contributions to society*

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