

Case Study

# Achieving Optimal Surveillance in Complex Environments for Red Sea Global

## Camera Solutions by TKH Security

Red Sea Global is a pioneering regenerative tourism development along the Red Sea coast of Saudi Arabia. Our involvement focused on the utility infrastructure across sixteen dispersed sites near Umluj and Tabuk. This included the development of essential systems such as water desalination, solar power generation, and sewage treatment.



## Surveillance Camera Needs

### > Wide Area Coverage

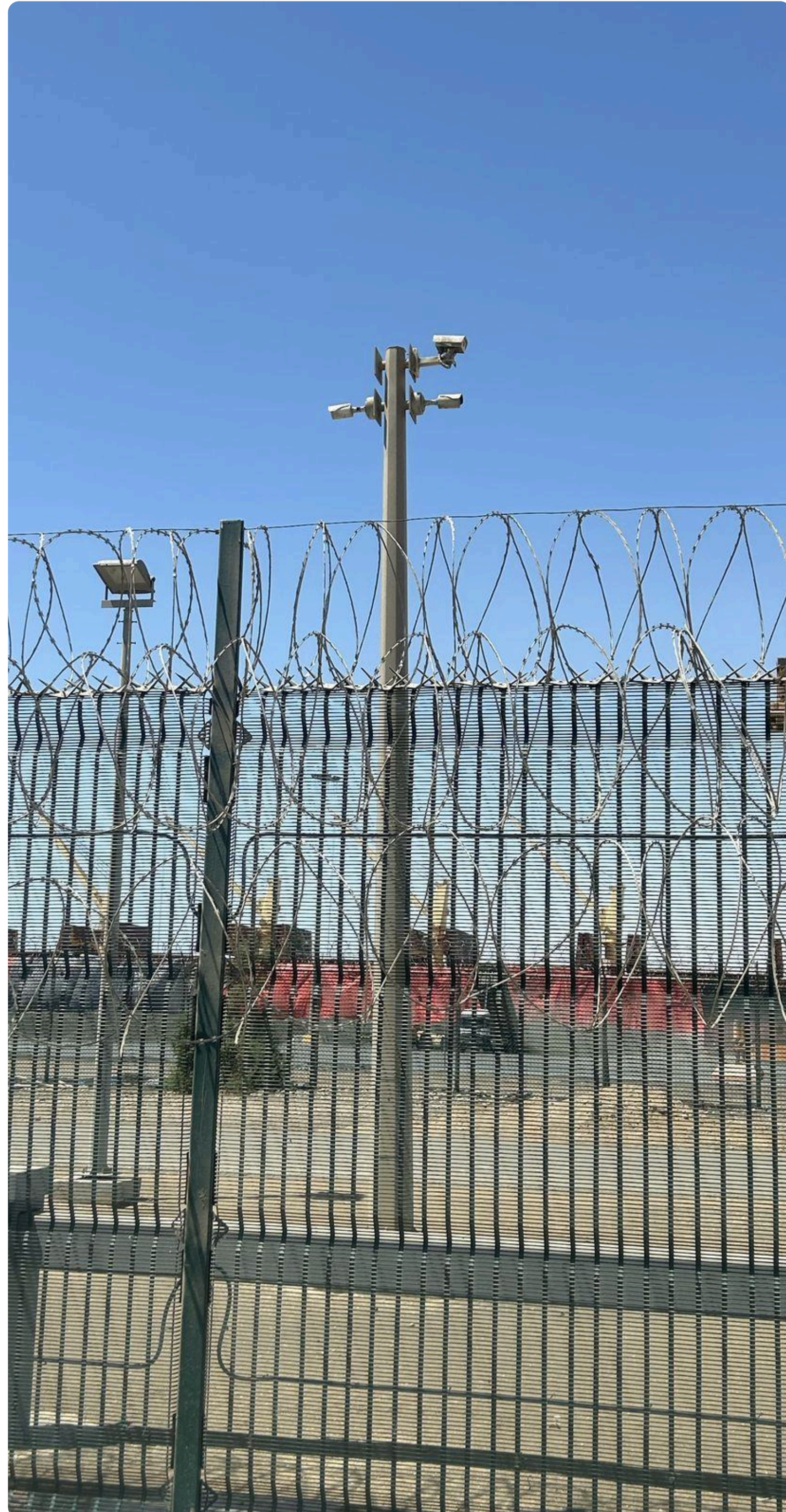
Sixteen remote sites, two of them with approximately 10 km of perimeter to monitor.

### > Harsh Weather

All equipment needed to withstand extreme heat, dust, and salt exposure.

### > Cost Constraints

High performance and reliability without exceeding budget limits.



# TKH Security Surveillance Camera Solutions

A diverse variety of camera types were strategically deployed to maximize coverage, performance, and adaptability in different environments. These included:

## 01. Fixed Dome Cameras

These cameras offered discreet surveillance where a low profile was critical. Their robust, tamper-resistant housing ensured reliable performance in dusty environments.

## 02. Fixed Bullet Cameras

Chosen for long-range outdoor perimeter monitoring, these cameras were deployed in exposed zones vulnerable to intrusion or harsh environments. Their directional coverage and durable weatherproof housing provided consistent, high-clarity surveillance. High performance and reliability without exceeding budget limits.

## 03. PTZ Speed Domes

Operators can actively pan, tilt, and zoom to track movement in real time — making them vital for incident response, live monitoring, and areas where static views are insufficient.

## 04. Upright PTZ Units

A high-performance alternative where standard installations were impractical. Their full rotational range and rugged design ensured reliable oversight of high-risk or uniquely configured zones.

## 05. Thermal-Optical Fusion Cameras

Installed to bolster perimeter security and environmental hazard detection, these cameras combine thermal imaging with optical views — enabling long-range monitoring even in complete darkness, fog, or sandstorms. This dual-technology solution is critical for early detection of potential fire risks or intrusions in remote and unlit areas.

# Efficient, Cost-Effective Protection

By deploying the right camera in each zone, the project achieved maximum coverage and threat detection without inflating costs — balancing high-tech capability with economic feasibility.



## Expert opinion

"Having worked with TKH Security for many years, we trusted their expertise and product range to meet our complex demands. Their cameras perform reliably in harsh conditions, and the solution fits our tight budget. This project benefits from their proven technology and deep understanding of our security needs."

Waheed Akhtar  
CEO, Integrated Technical Solution Company



# Technology For Your Security