Providing effective protection of borders through thermal technology

Smuggling, illegal immigration, terrorist threats. These are just some of the challenges faced by governments trying to control border incursions. As part of a series of high-tech measures to deal with the ongoing threats, there is an increasing move toward thermal imaging systems. Using these powerful systems, border guards and security forces can observe and investigate any incident occurring during the day or at night, as well as in adverse weather conditions.

Cost and reliability are prime considerations when it comes to systems placed on borders and coastlines. Border security systems must be able to operate around the clock in harsh conditions, for years at a time. Fast response is critical. When a potential is detected, it must be recognized and analyzed in order to immediately initiate response. There is little room for false alarms and other problems resulting from poor lighting conditions, shadows, scenery movements caused by winds and similar reasons that may rule out the use of regular cameras. As a result, there is increased usage of thermal cameras and systems.

Vumii has extensive experience in providing border surveillance solutions.

Its cameras systems carry out wide area scene surveillance as well as close-up threat assessment. The company has installed hundreds of systems on borders in the Euro-Asia zone, many of which face ongoing terrorist incursions and smuggling. The systems have proved extremely effective in identifying and preventing attempts at illegal border crossings, particularly under cover of darkness and in inclement weather.

Infrared thermal imaging cameras absorb energy from the environment to create a clear picture of the scene.
Selecting thermal cameras for border security applications

Vumii's cost-effective thermal cameras can be used in a variety of different environments, including mountainous, rugged, and wooded terrain. The fixed Sii AT camera provides an effective solution for spotting intrusions at specific locations along a border fence. The user friendly camera, fitted with an athermal lens and digital zoom, stays in focus irrespective of changes in temperature. The tough cameras operate in all weather conditions, around the clock.

Vumii's multi-sensor camera systems deliver reliable performance, providing effective perimeter security for borders. The systems are designed to enable smooth integration with other security systems.

Vumii's high performance dual channel camera systems offer both day color and 24/7 thermal cameras on a pan/tilt platform. Offering long range detection and recognition, the Accuracii XRU enables effective protection of borders. Accuracii XRU features an advanced high resolution 17μm 640x480 thermal camera with a 25-225mm continuous zoom lens, enabling detection of a person up to 7km away. The camera system gives the border guards the capability to distinguish between normal day-to-day events and possible security threats, enabling timely threat verification and response. It is also equipped with a powerful regular camera for daytime assessment, and an optional Laser Range Finder. Vumii's uncooled Accuracii XRU multi-sensor camera system offers all of the benefits of comparative cooled systems, at a lower cost of ownership.

Summary

When selecting thermal imaging systems for border and security applications, affordability and consistent performance are major considerations. It's here that Vumii's line of uncooled and handheld thermal imaging systems are enabling border and security forces to see beyond the visible and carry out effective border surveillance.