

MARKET ANALYSIS

BUILDING A RING OF STEEL

From drones to video analysis, International Security Journal examines the latest perimeter security solutions on the market

When security teams begin to put together their plans to protect a facility, they often take a layered approach. The outer perimeter will be the first layer to come into contact with any hostile actors and therefore needs to be adequately secured with reliable and robust solutions.

Perimeter security systems find their application particularly in national borders, the military and defence sector, government offices, commercial domains, banks, correctional sites and other huge industrial plants in various segments.

The multitude of threats around the world having to be planned for by security teams, from hostile vehicles to lone-wolf active assailants, means that the first line of defence is more important than ever.

This has led to significantly increased spending in the perimeter



protection industry as organisations look to deploy the very latest products to boost their security. A May 2019 report from Grandview Research valued the sector at US\$17.7bn and projected that it would grow by 7.7% annually until 2025.

The report pointed to the rapid adoption of the latest technology,

such as video analysis and aerial drones as being one of the main factors behind the market growth.

The value of analysis

Traditionally known for its surveillance cameras, Hikvision has quickly moved to become one of the biggest names in the perimeter protection industry. This is due to

FOCUS
and
ACT

Pay Attention to
Human and Vehicle Events

AcuSense
Technology





the wide range of innovative video content analysis products the company has developed in recent years which have successfully reduced false alarm rates for users.

Speaking exclusively to International Security Journal, Keen Yao, Vice President of Hikvision explained: "Hikvision provides diversified perimeter protection solutions for a wide range of different project requirements in a multitude of application scenarios.

"The core of our offering is the presentation of high-definition visual images for customers and to effectively reduce false alarms. In addition to these solutions based on video analysis, Hikvision also provides non-video perimeter protection solutions, including alarm systems and security radars."

Solutions such as the firm's AcuSense technology can accurately identify a human or vehicle target whilst ignoring non-threatening objects such as leaves or animals. False alarms can therefore be significantly reduced, providing huge time and cost savings for the end user.

Eye in the sky

Along with video analysis, the biggest area of development within perimeter protection is the increasing use of drones. Unmanned Aerial Vehicles (UAVs) offer a wide view of the target area from above, enabling control room operators to identify any potential threats.

One of the newest solutions on the market comes in the form of Percepto's Drone-in-a-Box (DIB). The company's artificial intelligence powered DIB delivers aerial surveillance by navigating pre-defined patrols, providing real-time detection and tracking of humans and vehicles, as well as anomaly identification, all without the need for a pilot or on-site operator.

It is currently being used in security operations by large industrial organisations around the world to improve security and safety, reduce risk, improve regulatory compliance and optimise operations. The latest drones provide a surveillance camera in the sky that enables security professionals to monitor and respond across a far wider geographic area much faster and because it is truly autonomous, they can fly 24/7, 365 days a year even in harsh weather conditions.

Fencing it off

Of course, all this talk of new technologies means that we shouldn't be ignoring the traditional perimeter protection methods of fencing, barriers and bollards. There is still some very important work being done in these areas by a number of manufacturers.

For example, Jacksons Fencing has recently completed a number of installation projects at schools across the UK. Peter Jackson, Managing Director of Jacksons Fencing explained that this renewed emphasis on school security came

to the fore after the company conducted a survey of teachers.

"Schools today are faced with both capacity pressures and severe budgetary constraints. It can be all too easy to let perimeter replacement or upgrading programmes slip. With appropriate planning and execution, these challenges can be overcome to provide young minds with a safe environment in which to learn and thrive."

One such project was carried out at Oakdale Primary School in Peterborough, UK where over 650m of Jacksons' fencing and eight gates were installed by Landplan Associations, a local landscape design consultant.

Two-metre tall EuroGuard Flatform Medium was installed around the school perimeter. A matching single leaf gate was installed for pedestrian usage, allowing for better control and monitoring of entry and exit. A manual double leaf gate was installed for vehicular and emergency access.

There is a huge array of perimeter security solutions now available on the market with new innovations being made all the time. Although security can never be guaranteed, those organisations that are not restricted by budget constraints will be able to implement a system which covers almost every base, making them confident of being able to repel any threat that comes their way.

