



HxGN dC3 LidarVision

In an era of increasing security threats and evolving regulatory requirements, organizations must upgrade their physical security systems to protect people, property and critical assets. This is especially crucial for critical infrastructure such as utilities, mass transit, national rail providers, airports and prisons. A fully integrated security environment that enables seamless detection, assessment and response to incidents is essential.

HxGN dC3 LidarVision, formerly known as Accur8vision, is an advanced 3D surveillance solution based on volumetric detection and 3D LiDAR technology.

By leveraging the power of digital twins, HxGN dC3 LidarVision goes beyond traditional perimeter protection to secure entire areas instead of just the fence line. Its seamless integration with other physical security systems ensures fast, targeted responses — making it the ideal solution for organizations where security is paramount.

What is LiDAR?

LiDAR sensors emit laser pulses and measure the time it takes for the reflected light to return, creating detailed 3D maps of the surrounding environment. This enables the detection, classification and tracking of objects with high accuracy, even in challenging conditions like low light or poor weather.

For perimeter security, LiDAR sensors can be deployed to monitor large areas, establish virtual barriers and identify unauthorized intrusions in real time. Unlike traditional protection technologies, LiDAR doesn't rely on visible light, reducing blind spots and privacy concerns. It can integrate with advanced analytics systems to differentiate between humans, animals and vehicles, minimizing false alarms and ensuring timely alerts for security breaches.



HxGN dC3 LidarVision uses digital twin technology to create an intuitive and actionable digital representation of reality based on a 3D mesh, BIM data or orthophotos.



Accurate

Based on high-precision 3D LiDAR technology, which enables centimeter-accurate detection even in poor lighting conditions, HxGN dC3 LidarVision enables extremely reliable detection with a minimal false alarm rate.



Intuitive

HxGN dC3 LidarVision uses digital twin technology to create an intuitive and actionable representation of reality that allows the user to understand a situation in seconds.



Holistic

By combining data from multiple 3D LiDAR sensors, HxGN dC3 LidarVision creates an image of an entire site and enables intruders to be tracked across the whole area instead of just protecting the fence line.



Cost effective

In contrast to traditional fence security systems, which often require the digging of trenches, LiDAR sensors can be placed on the surface of a building and use existing cabling infrastructure.



GDPR compliant

As LiDAR does not transmit clear images of people or enable identification, the technology is particularly suitable for GDPR-sensitive environments such as public areas.



AI powered

Hexagon's DeepTection AI enables the reliable classification of objects on the basis of LiDAR data, creating more advanced situational awareness.

Detection zones

HxGN dC3 LidarVision allows the creation of highly accurate 3D detection zones with centimeter-level precision.

This enables users to define exact areas of interest for monitoring, as well as exclusion zones where detection should not occur. Beyond basic detection zones, HxGN dC3 LidarVision supports various zone types, including:

- **Pre-alarm zones:** Get early warnings without triggering a full alarm
- **Delayed zones:** Receive alarms only after a set time
- **Loitering zones:** Detect objects remaining in a zone for longer than a specified period
- **Proximity zones:** Identify dangerous proximity between objects
- **Entry zones:** Integrate with access control systems (ACS)

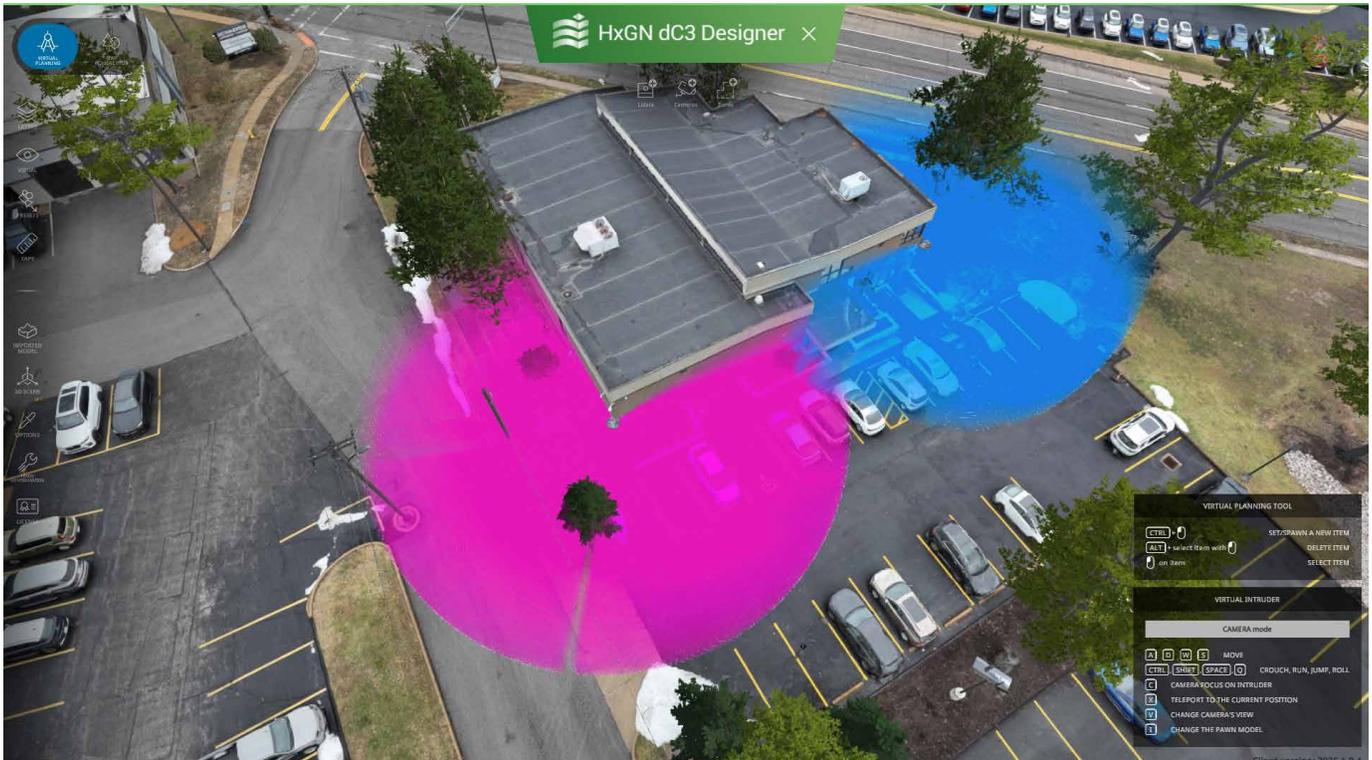
System integration and API support

HxGN dC3 LidarVision is built to integrate seamlessly with other security systems. It features an open API for connecting with video management software (VMS) and physical security information management (PSIM) platforms, enabling streamlined management across multiple systems. In addition to exporting data, HxGN dC3 LidarVision supports the integration of external systems such as perimeter detection, access control and other subsystems.

HxGN dC3 Designer

HxGN dC3 Designer is a powerful design tool for physical security environments that leverages the power of digital twin technology to provide the user with an intuitive and realistic planning experience. Developed for the planning of LiDAR-based surveillance systems, it also offers the possibility of positioning surveillance cameras in a digital representation of physical reality.

Virtual intruders can be introduced into the environment, allowing users to test detection and fine-tune the system before installation. This is especially valuable for large or complex sites, as it provides an immersive, detailed visualization of how the security system will function in real-world scenarios.



Coverage of LiDAR sensors in HxGN dC3 Designer using an orthophoto map created from a drone flight: the scene shows obstructions by buildings and vegetation.

Packages for every security need

HxGN dC3 LidarVision is available in several product packages. The range of functions can be tailored precisely to the specific requirements of your organization.



HxGN dC3 LidarVision Lite

A mobile app that precisely displays events and objects in a 2D environment; it is also available as a web-based application for easy integration with other security platforms

HxGN dC3 LidarVision Prime

A full-fledged security system offering real-time volumetric detection, 3D visualization and automated camera control

HxGN dC3 LidarVision Eclipse

Prime functionalities and HxGN dC3 Designer, along with added features like drone control, heat maps, threat level management and people counting



HxGN dC3 LidarVision – part of Hexagon’s physical security portfolio

Organizations worldwide are increasingly encountering heightened threats and risks due to surges in global crises, trade conflicts, political instability and the consequences of climate change. In response to these challenges, there is a growing need for holistic security concepts that effectively protect people, properties and assets.

To address these issues, Hexagon has developed HxGN dC3, a unified physical security technology portfolio designed to manage the entire lifecycle of an incident and minimize its impact. This innovative portfolio integrates the C3 approach — command, control and collaborate — familiar from the control center environment, with advanced event detection technologies.

HxGN dC3 also leverages the power of Hexagon’s broader solution portfolio, which contains powerful mapping and visualization capabilities, dispatch and collaboration tools and enterprise asset management.

Hexagon is the global leader in precision technologies at any scale. Our digital twins, robotics and AI solutions are transforming the industries that shape our reality.

Hexagon’s Safety, Infrastructure & Geospatial division improves the resilience and sustainability of the world’s critical services and infrastructure. Our solutions turn complex data about people, places and assets into meaningful information and capabilities for better, faster decision-making in public safety, defense, transportation, government and physical security.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,000 employees in 50 countries and net sales of approximately 5.2bn EUR. Learn more at [hexagon.com](https://www.hexagon.com) and follow us [@HexagonAB](https://twitter.com/HexagonAB).