# The 3xLOGIC Ecosystem: Taking Security Technology To The Next Level

**E-Guide**

# THE 3xLOGIC STORY



The way we interact with and move around our buildings and cities is fundamentally changing. More data about these activities and movements is becoming available every day and this is making it easier for business leaders to optimise their operations, find efficiencies, protect their buildings and assets, and solve problems they never knew they had. But data is nothing without insight, and insight is nothing without action.

A key element of the 3xLOGIC ecosystem is our ability to capture and analyse this "big data" element. We integrate Security Systems, Point-of-Sale systems, Alarm Management Platforms and Cloud Based Management Systems to make your security management easier, more efficient, and more powerful than ever offering a fresh perspective and opening up new possibilities.

> **We can combine data from our own hardware and software, along with video, access control, and disparate data such as ATM, Point-of-Sale, analytics, and more.**

Our ecosystem of complementary products, including video surveillance systems, access control systems, mobile apps, and software, are deeply integrated to provide an entire security solution - tailored to each business' needs. We can combine data from our own hardware and software, along with video, access control, and disparate data such as ATM, Point-of-Sale, analytics, and more. This seamless integration also provides the detailed insights needed to move the business forward - providing value beyond security, for marketing, operations, the Executive team and more.

With over 15 years' experience in easy-to-use video surveillance solutions, access control solutions and business intelligence solutions, we are proud of our position as a leading innovator in server and cloud-based security technology.

## INTRODUCING VIGIL SOLUTIONS

# VIGIL

3xLOGIC offers an incredible ecosystem of products and services, called the VIGIL Video solution, that adds value to any deployment. Our product line includes cameras, VIGIL software, advanced image devices, recording appliances, mobile apps, accessories and mounts - with further hardware and software solutions in the pipeline.

With this, you can build a wide array of different hardware and software set-ups to suit every site and team requirement.

## TRENDS BUSINESS INTELLIGENCE

TRENDS is a cloud-based Business Intelligence (BI) tool that can combine your video data with financial data and other third-party information as needed, into a consolidated data warehouse. This helps to uncover interesting, value-added insights for better decision-making. For example, TRENDS can map your cameras to cash handling areas like a back office or cash register, then align video and financial data to identify suspicious behaviour such as fraud or theft.

Data visualisations generated by TRENDS can help your Executive team and other stakeholders quickly understand key events and patterns. Fraudulent or unusual behaviour can also be flagged by the system to help proactively prevent losses.

## THIRD-PARTY INTEGRATIONS

The 3xLOGIC suite of products can integrate with other security systems for seamless building management, access control, incident management and video surveillance.

PACOM's security management platforms – both GMS and UNISON – can connect with VIGIL appliances to allow security monitoring operators to review video recorded during intrusion events. This provides validation of alarm signals, reducing the chance of false alarms and enhancing the speed and confidence of police response. Additionally, camera icons can be placed on interactive site maps for easy call up of live video for surveillance applications.

VIGIL will integrate with PAC's Access Central management platform, which allows VIGIL CCTV and PAC Access/Building Control to be managed via a single user interface. PAC Access Control and VIGIL CCTV integration offers enhanced and proactive security through fully automated alerts and actions that can be triggered from a large variety of events. This integration with PAC will be available from Q1 2021.

# VMS AND SERVER

The VIGIL Video Management System (VMS) is the driving force behind the VIGIL suite of products. Providing advanced features for large deployment projects, remote connectivity without advanced networking configuration, and easy set-up for inexperienced users.

At the heart of the VIGIL Suite is the VIGIL Server that can be tailored to individual projects. Designed with ease-of-installation in mind, this deploys multiple tools such as the Easy Setup Wizard and VIGIL Connect (our proprietary DDNS). It is provided as part of VIGIL version 11.5 As a Service – i.e. on a subscription basis - which makes it easier for users to access VIGIL Server Advanced Settings through a simple Server icon in their system tray.
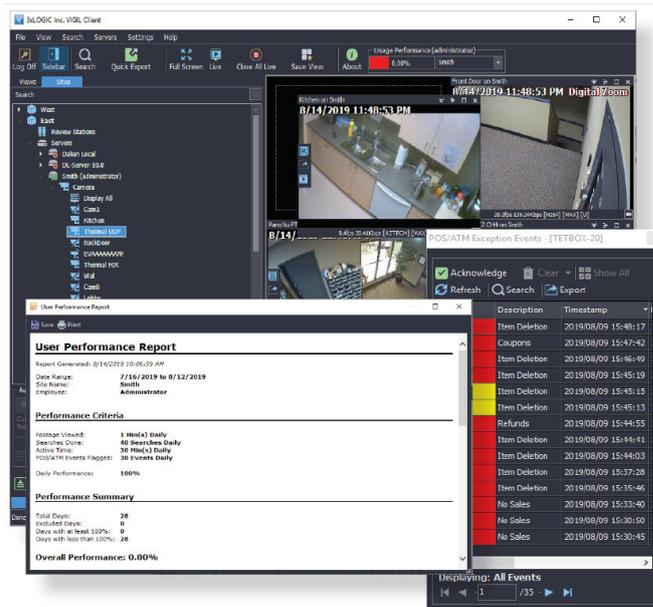
# VIGIL SOFTWARE

3xLOGIC offers several additional VIGIL software applications to add further value to your deployments.

## VIGIL CLIENT

VIGIL Client provides remote and local live and playback viewing of all video and data collected by a VIGIL Server. It enables advanced search capabilities like motion-based Smart Search, time-lapse inspired thumbnail search, and Rapid Stream video compression to streamline investigations and reduce manual workload on your security team.
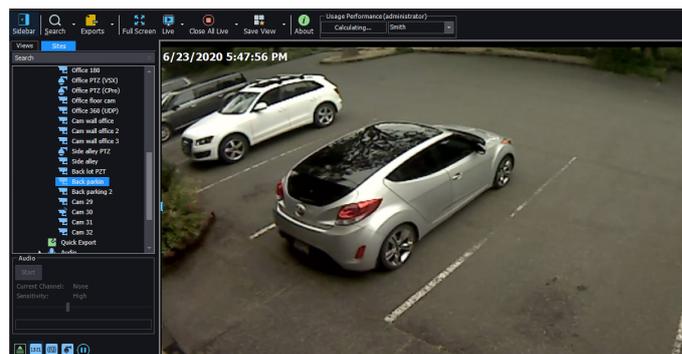


There is also VIGIL Client Lite for Mac, providing Apple users with the ability to view live and playback footage natively within the Mac operating system, eliminating the need to install expensive third-party applications or configure a dual boot environment that supports Windows.

## VIGIL CENTRAL MANAGEMENT

VIGIL Central Management (VCM) is a scalable network monitoring utility designed to meet the stringent requirements of both multi-site, enterprise-class networks, as well as smaller business environments with simplified network architecture (and all networks in-between).



With VCM, you gain the tools you need to effectively manage multiple VIGIL Servers and V-Series cameras that are connected over IP (Internet Protocol) networks. You can monitor and report on the health of each VIGIL Server remotely, to understand what cameras are
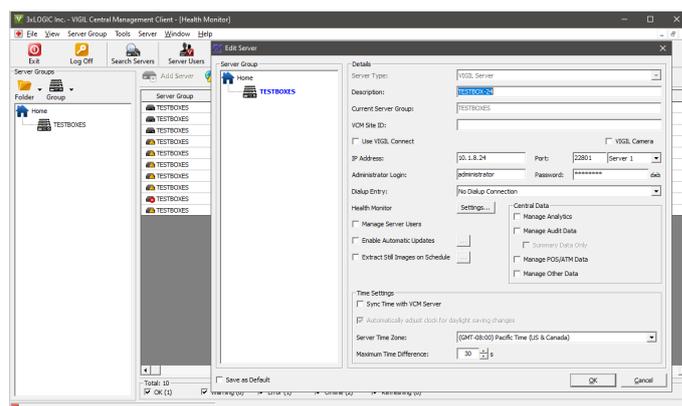
online, their recording status, disk usage and any other useful insights. This enables your team to proactively carry-out maintenance on equipment or report on Server and camera health concerns, to reduce unnecessary and unplanned downtime. VCM can additionally trigger a warning when the expected number of cameras have stopped recording for a predefined amount of minutes, allowing a team to investigate the cause.



When hardware updates are due, these can be performed remotely via the onboard software - to an agreed schedule - which leads to operational efficiency for our VARs and no disruption to customers. Similarly if admin changes are required because a user leaves the organisation, their access authorisation can be removed from the system remotely – and quickly.

> " **VCM can additionally trigger a warning when the expected number of cameras have stopped recording for a predefined amount of minutes, allowing a team to investigate the cause.** "

VIGIL server settings can also be uploaded or downloaded remotely.  So, in the event that the previously installed VIGIL server fails, rather than sending an expensive commissioning engineer to the end user's site to reprogram a replacement server, this work can be carried out by an apprentice.  The end user's server settings can be quickly downloaded from VCM onto the replacement which drastically reduces system downtime, helps retain margin for our VARs (due to lower labour costs of an apprentice) and minimises time spent on site reprogramming a unit.



It also frees up the commissioning engineer, allowing them to focus on new project installs that may be time sensitive.

VCM can be deployed for a single, enterprise-level project or can manage thousands of single or multi-location end users on the same system.

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## VIGIL POINT-OF-SALE

Employee theft is one of the single largest causes of shrinkage in retail environments today. Millions of pounds disappear from Point-of-Sale (POS) terminals in retail stores on a daily basis due to fraudulent or criminal employee activities. Therefore, the ability to effectively detect and deter cashier-related shrinkage is a top priority for retailers worldwide.

VIGIL Point-of-Sale enables you to run queries on your POS transactions based on date, time, camera, transaction type, value, item code, cashier, or receipt number and view results along with video of those transactions for a complete overview of a situation. It can issue real-time alerts based on predefined rules when events and actions fall outside of these parameters. This transforms your security operations from a reactive to proactive resource.

> " **Millions of pounds disappear from Point-of-Sale (POS) terminals in retail stores on a daily basis due to fraudulent or criminal employee activities.** "

## VIGIL SOFTWARE DEVELOPMENT KIT

The VIGIL Software Development Kit (SDK) is a set of software development tools that enable seamless integration between VIGIL Server and third-party security solutions and hardware devices. It includes an Application Program Interface (API), sample source code and documentation that give our development partners the tools they need to rapidly develop integrated, comprehensive security solutions. It supports all modern development languages and tools, including .NET and C#.

## VIGIL IN-ACTION:
## THE TAMPA METROPOLITAN AREA YMCA

The Tampa Metropolitan Area YMCA exists to improve its local community through youth projects, healthy living education, and social responsibility. It engages with over 242,000 people a year, across 18 different facilities.

The organisation required an upgraded security camera system across three of its locations, made possible thanks to a generous donation from a supporter.



Based on a phased project plan, 150 new 3xLOGIC cameras were installed along with the VIGIL VMS, Server, Client, and upgraded fire and intrusion systems. Smaller buildings had, on average, 4 cameras set-up, while large facilities had between 16 to 25 cameras. The installation had to occur in record time - mere weeks - to fit with building closures and not disrupt the charity's work.

The 3xLOGIC cameras were installed across a wide range of areas including car parks, swimming pools, childcare areas, receptions, sports courts and gyms.

Complementing this is an upgraded fire and intrusion system, which will flag potential issues to a central response team. There are also plans to open a call centre, with staff able to access live video feeds of key YMCA areas to answer, for example, whether a swimming pool is busy or a basketball court is empty.

**" 3xLOGIC video is a great tool and it gives us the information we need to make good, informed decisions. We also saw video and our overall security system as a way to enhance our member's experience and to increase member engagement. "**

—Nate Valentin, VP of Information Technology, Tampa Metropolitan Area YMCA

# VIGIL CAMERAS



3xLOGIC cameras come in all shapes and styles to meet the needs of different organisations and sectors. From indoor to outdoor and hybrid models, and bullet and dome cameras, there is a range that will suit you. Plus, with our seamless integration and support from our VMS, Client and Server, you can install different cameras across a site and have them work harmoniously together, giving you the performance and clarity needed to remain on top of all incidents, along with some of the best pricing on the market.

Our cameras are complemented with a range of indoor and outdoor mounts and accessories, to help you fix equipment securely to any surface, from ceilings to corners.

**Our VISIX Gen III range** includes dome and bullet models that are suitable for use indoors and outdoors, with vandal-proof protection to give extra peace-of-mind. The VISIX 5MP, for example, is an indoor and outdoor mini-dome camera that suits most entry-level indoor/ outdoor installation requirements and a range of industries.



For a 360° view, the VISIX 6MP Outdoor Fisheye with IR provides affordable, high-definition coverage with the additional ability to digitally pan, tilt and zoom to any location. It can also provide video footage in low or no light environments such as restaurants and back-of-house areas. With the 3xLOGIC Panoramic De-warping Software, you can view a scene in real-time from just one of these cameras and also get a simultaneous view of a 360° image.

The VISIX 5MP Outdoor Bullet with Remote Focus is suitable for nearly any application including motion detection, remote focus, low light levels with infrared and alarm input and output. It is compatible with a wide variety of standardised network protocols.

Coming soon to this range are the VISIX 8MP (4K) 180 Indoor and Outdoor camera - a 180° Panoramic IP camera that provides high-definition coverage with zero blind spots and the ability to digitally pan, tilt and zoom. There is also the VISIX 2MP Indoor Dome Low Light Camera, the VISIX 2MP Full Body, and the VISIX 2MP PTZ.

For **all-in-one options**, 3xLOGIC offers three cameras: the V-Series 2MP Exterior Dome, V-Series 2MP Interior Mini Dome, and V-Series 2MP Exterior Bullet Camera.

The V-Series 2MP Exterior Dome is an indoor and outdoor IP camera that offers advanced analytics capabilities. With this, it has the flexibility to be connected to a digital recorder or act as a standalone recording device.

Like the V-Series 2MP Exterior Dome, the V-Series 2MP Interior Mini Dome comes with advanced analytics capabilities. Suitable for indoor use, it is particularly suited to video surveillance applications which require superior clarity and detail - such as monitoring for shoplifting or cash register fraud. It comes with a Micro SD card slot for local recording and to operate as a standalone device.

> **"With only a few mouse clicks, users can configure a new detection rule to, for example, count the number of people in a store or understand their dwell times."**

The V-Series 2MP Exterior Bullet Camera is an indoor and outdoor IP camera with a weather resistance construction, that can be used for longer-range surveillance compared with the dome models.

This makes it well-suited to monitoring car parks and external areas for trespassing or other emergencies, or for covering larger indoor areas like warehouses. Infrared illumination allows it to operate in low and no light environments.

With all three devices, embedded analytics use algorithms that automatically self-adjust to vastly simplify the analytic process.

With only a few mouse clicks, users can configure a new detection rule to, for example, count the number of people in a store or understand their dwell times. Object classification and direction is also possible.

When enabled, the embedded VIGIL Server software from 3xLOGIC allows the camera to be run as a stand-alone device that records video to the onboard memory card. A simple plug and play installation allows for access to video data using a standard web browser, VIGIL Client, or your mobile and tablet devices.

Finally, there is **advanced imaging** that provides extra details for people counting and queue management and thermal image detection.

The VISIX Time of Flight (ToF) imager is a specially developed, low-cost smart people tracker designed to improve queue management and people counting. By combining state-of-the-art 3D imaging technology with intelligent video analytics, it reduces the manual work done by security teams and frontline staff to count and manage the flow of people into an area. It also supports Stationary Queue Measurement - people don't have to be moving in order for the camera to track and count them.

> **By combining state-of-the-art 3D imaging technology with intelligent video analytics, it reduces the manual work done by security teams and frontline staff to count and manage the flow of people into an area.**

The VISIX thermal imager provides unparalleled detail into the thermal conditions of a space, enabling you to see where you never could before. High-contrast thermal imaging can quickly alert to trespassing or fire, while reducing false alarms. Verification and detection are carried out all within this one device. It is not affected by changes in lighting, low contrast scenes or inclement weather, and no illumination is required. It is easy to set-up via a QR code and its embedded analytics will automatically self-adjust like the all-in-one solutions.

# VIGIL IN-ACTION: LITTLETON PUBLIC SCHOOLS

Littleton Public Schools (LPS) is a school district serving 28 square miles and over 15,000 students. It has 13 primary schools, 4 middle schools, 3 secondary schools, along with alternative programs, preschools and two charter schools.

The organisation was looking for new innovative ways to ensure the safety of students, improve the educational experience, and to protect its buildings. It turned to 3xLOGIC - installing 1400 IP and analogue cameras (using over 10 different models) by the end of the project, with the flexibility to add more as needed. It also uses 3xLOGIC recording devices, namely the VIGIL V7300 Series.

With proper camera placement and high video quality, LPS can now monitor its sites 24/7 with ease. Vandalism has fallen by more than 75%, whereas before, it was creeping up. Burglaries have also decreased. The cameras also flag any incidents such as suspicious behaviour or student discipline issues where staff may need to step in quickly. It also acts as a deterrent, reassuring students and staff that they are safe while in the school community.

**"The ease of use and the compliments we get on the 3xLOGIC system have been a big improvement—that's huge. You want it to be a positive experience so that people will use it. If we're using it, then we're successfully improving security on our campuses.**

– Guy Grace, Director of Security & Emergency Preparedness,
Littleton Public Schools

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# RECORDING APPLIANCES

Powered by the VIGIL Video Management System (VMS) our recording appliances combine hardware and software to maximise their performance and functionality.

The VIGIL V250 Series NVRs are fully-integrated intelligent video appliances that come pre-configured with VIGIL VMS software. Providing a cost-effective video management platform that provides all the key functionality of VIGIL VMS with unrivalled ease of setup.



> **Remote viewing can be set-up via VIGIL Connect using a QR code. SD cards can record and playback footage to provide operational and security insights or help with investigations.**



This is achieved through the setup wizard, that enables those with no IP video experience to quickly set up their device and start recording and viewing video. It also provides plug-and-play capabilities with VISIX™ and ONVIF-S cameras for even easier deployment. Remote viewing can be set-up via VIGIL Connect using a QR code. SD cards can record and playback footage to provide operational and security insights or help with investigations.

# VIGIL IN-ACTION: CASH SAVER

Cash Saver is a food outlet that promises a whole new way to save on groceries. It keeps the cost of operating its stores to a minimum, with lower rent, no fancy décor, and less advertising.

The company needed a video surveillance system to improve safety and reduce losses.  Since Cash Saver advertises its lower prices compared to the competition, they are firmly committed to doing anything in their power to cut costs, including reducing product shrink and legal claims.



" **The image quality is very good, and when you show somebody video that pinpoints every action, it's like having an unbiased eye witness. We've cooperated with the police on upwards to a hundred different incidents.** "

– Mark Gatlin, VP of Store Operations

Cash Saver installed 60 cameras at its 24-hour flagship store, with 30 cameras in two other stores. These cover car parks and pavements around each store, every area on the sales floors, storage rooms, food preparation areas and more. All stores have 3xLOGIC V7000 NVRs recording footage from the 3xLOGIC 3 MP and 6 MP 360-degree surveillance cameras, as well as fixed cameras. Further installations are now planned for other stores.

The system has helped to combat slip and fall claims and reduce shrinkage. Footage has also been used in investigations for car accidents in the car parks, car break-ins, and a purse being snatched. Video can be monitored by the VP of Store Operations, assistant managers and co-managers throughout their shifts. Using the View Lite II mobile app, footage can also be viewed remotely via a smartphone.

# MOBILE APPS

To further enhance the installer and end-user experience, 3xLOGIC provides a range of mobile apps for remote viewing, and to easily configure installations.

## VIEW LITE II

View Lite II is a mobile app designed to allow users to connect to and view an unlimited number of V-Series standalone cameras and cameras connected to a VIGIL VMS Server. With the app, users can view up to 48 live camera feeds simultaneously, choosing from nine different layout options. Alarm push notifications will quickly alert to any events that need your attention and the app can also carry out POS and ATM searches along with live and playback footage.

A simple drag-and-drop interface requires no previous experience or training to use. An in-built QR code scanner allows you to quickly add VIGIL Servers. For further functionality, the app can integrate with a 3xCLOUD account.

## VIGIL CLOUD

An upcoming service offered by 3xLOGIC, VIGIL CLOUD will provide a highly-secure, scalable solution for collecting, processing, and analysing video data. Laying the groundwork for advanced insights and data analysis, plus integration with the Internet of Things (IoT) and other emerging technologies.
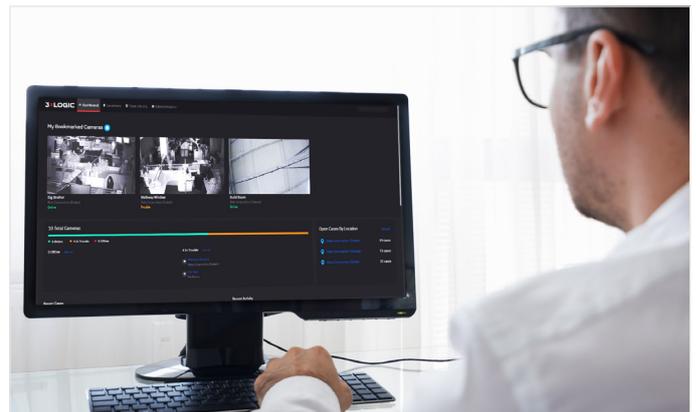
# LOOKING TO THE FUTURE

Having remained at the forefront of server and cloud-based security technology for over 15 years, 3xLOGIC is committed to always adapting and improving its solutions as the world changes.

The world is undergoing a period of rapid transformation as Industry 4.0 technologies become mainstream and businesses become more connected, data-driven and intelligent. Understanding these trends and changing patterns of behaviour is key. 3xLOGIC regularly consults with customers, partners, industry influencers, and more, in order to pinpoint the next evolutions in security and how our solutions can support them.

This is highlighted in the upcoming launch of VIGIL CLOUD, that recognises the growing demand of cloud services (the global cloud computing market size is expected to grow 17.5% from 2020 to 2025). Additionally making video security ready for future innovations such as artificial intelligence (AI) and integration with the IoT.

With 3xLOGIC, you don't just get an ecosystem of quality products and services that work effectively together. You also gain a partner to help you future proof your on-site and security operations and respond quickly to changing needs. Our hardware, software, and deep expertise in security technology provides the resilience your organisation needs to be secure, safe, and efficient for years to come.

## To learn more about 3xLOGIC, visit:

www.3xlogic.com

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