Qognify VMS

Qognify video management software

The heart of your physical security

Qognify VMS is an enterprise-class video management software based on the proven Cayuga security platform. Built to meet the unique requirements of enterprise video users and interact with a wide variety of third-party systems, devices and sensors, it is the perfect choice to sit at the heart of your physical security ecosystem.

Thanks to its modular architecture, Qognify VMS is designed to adapt to the ever-changing requirements of enterprise projects, making it a flexible and future-proof solution even beyond physical security.

Low TCO

Thanks to its incredibly efficient recorder architecture, Qognify VMS minimizes the hardware footprint and keeps the total cost of ownership very low.

Connectivity

Fits seamlessly into your physical security ecosystem: open interfaces enable the convenient bidirectional integration of third-party systems (video analytics, access control, intrusion detection, etc.).

Management

Individual organizational structures can be mapped through detailed rights and role management and Active Directory integration.

Usability

Individually configurable alarm scenarios enable quick response in case of an event. Different client types (native, web and mobile client) offer flexible access to your VMS – even remotely.

Security

Qognify VMS uses state-of-the-art encryption to secure data transmission between different components. Automated patch delivery via the Update Server ensures Qognify VMS always stays up to date and secure.

Resiliency

Thanks to the integrated redundancy and failover concept, Qognify VMS systems can be optimally protected against system failures.
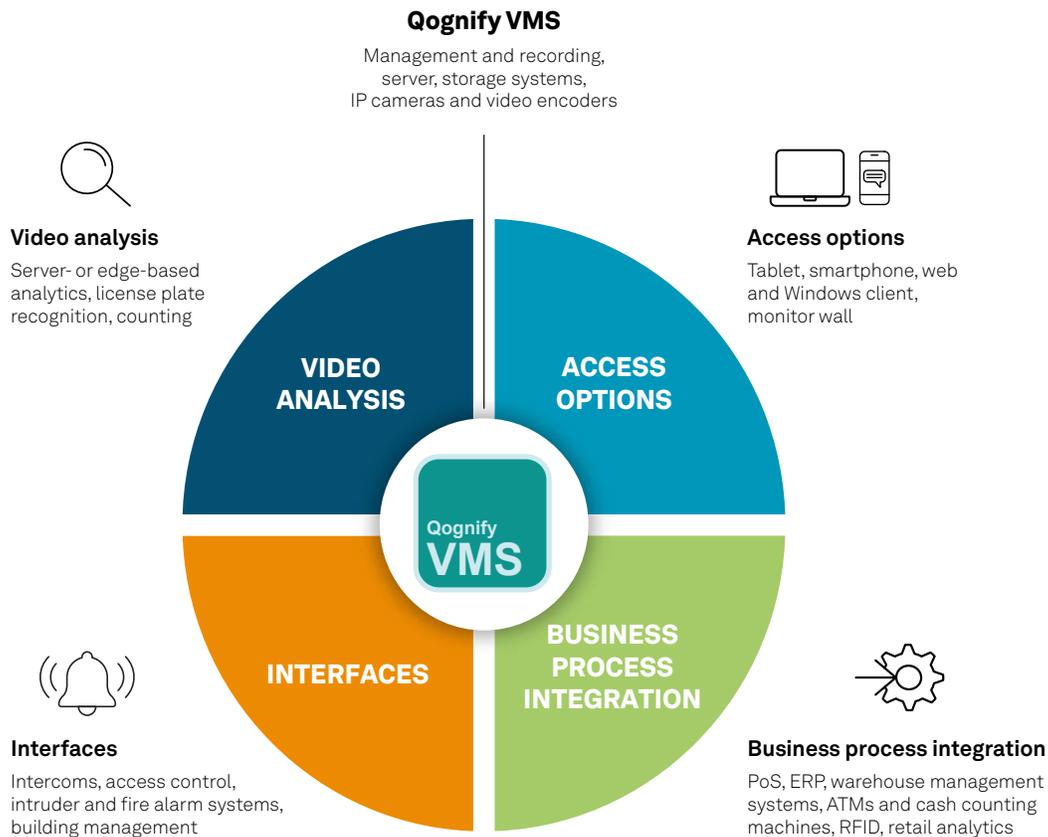
Infinite connectivity

Due to its high degree of openness and flexibility, Qognify VMS allows individual third-party systems to be integrated, making it the ideal solution for large and challenging projects requiring interoperability between multiple solutions.

The effort is low for new installations because Qognify VMS can be quickly and easily integrated into your system environment. Connectivity also means that existing systems and components can be retained and continue to be used. All this ensures Qognify VMS delivers cost-effective and sustainable solutions.

Multiple interfaces

Via a set of powerful interfaces, Qognify VMS can interact with a large number of third-party systems in your software ecosystem: Software Development Kit (SDK), Gateway Services (SGS), Qognify Analytics Interface (QAI), Qognify Event Interface (QEI), OPC UA Server.

Qognify VMS
Management and recording,
server, storage systems,
IP cameras and video encoders

Video analysis
Server- or edge-based
analytics, license plate
recognition, counting

Access options
Tablet, smartphone, web
and Windows client,
monitor wall

Interfaces
Intercoms, access control,
intruder and fire alarm systems,
building management

Business process integration
PoS, ERP, warehouse management
systems, ATMs and cash counting
machines, RFID, retail analytics

VIDEO ANALYSIS · ACCESS OPTIONS · BUSINESS PROCESS INTEGRATION · INTERFACES

Qognify VMS

More information: **hxgnsecurity.com**

Qognify VMS **3**

Intuitive handling

Qognify VMS combines maximum functionality and user-friendliness. The user interface stands out with an exceptionally clear, modern layout, which offers intuitive user guidance. Qognify VMS exploits the benefits of modern operating concepts and combines them with ingenious functionality and optimized ergonomics – right down to a glare-free night mode.

Click2Track

Track people directly in the camera view with just a single click
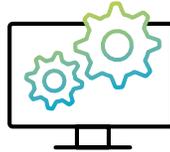
Customizable view

Customize day/night mode, archive and live image in a mixed view

Monitor wall support

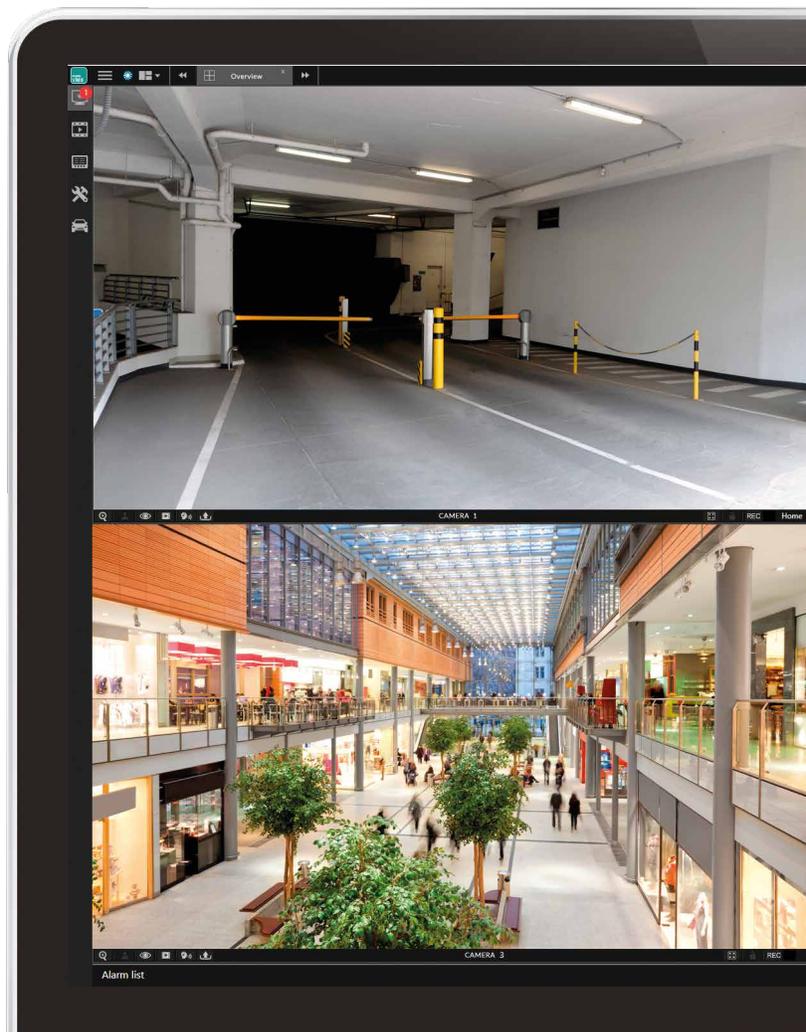Place views via drag and drop onto video walls

Multicamera configuration

Configure multiple cameras in one go for quick and efficient setup

Lasso select

Select cameras with the lasso directly in the layout plan – to understand a situation as fast as possible

Time-saving and efficient functionalities

The clear and structured UI of Qognify VMS guides you unobtrusively to perform any desired task and helps to directly access any extension module. It provides the operator clear situational awareness at all times while allowing for fast response – in Live, Archive and Configuration mode. Qognify VMS is easy, fast and effective in operation, even with just a short familiarization phase.
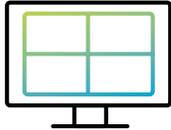
Predefined 2 x 2 view

Contains Predefined Alarm/Live/ Archive/Trigger View – for an improved understanding of events
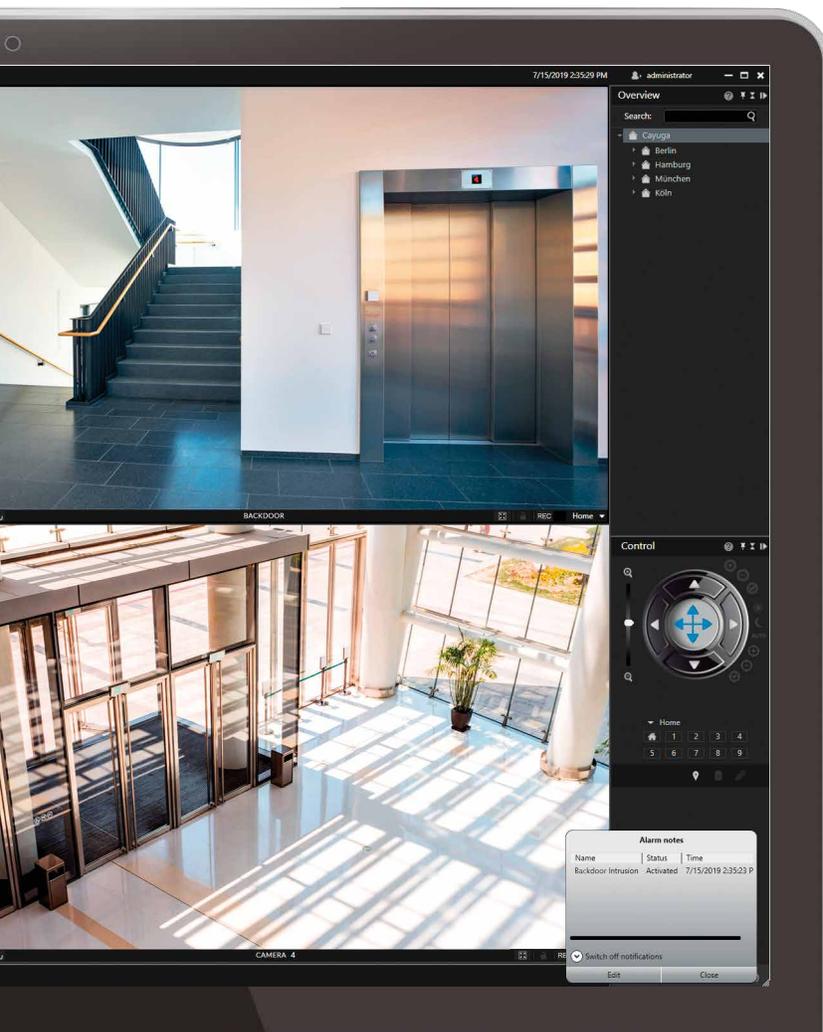
Color definitions

Use colors to classify alarms to always stay on top of things

Alarm management

Keep all current alarms on-screen, even in Archive mode, with alarm counter and pop-up notifications

Audio control panel

Use the integrated audio control panel for bidirectional audio and VoIP communication

PTZ control

Control PTZ cameras for intuitive and quick navigation

Seamless integrations

SYSTEMS

- Industry-specific systems like PoS and ERP are integrated quickly and easily thanks to a driver-based approach.

- Security systems such as building management, access control, intrusion and fire alarm as well as control center solutions can be integrated via interfaces.

- Third-party systems can be integrated via network I/Os and TCP triggers.

- VoIP-enabled devices are connected via integration of SIP servers.

- OPC UA, the leading cross-system standard in automation and safety technology, is supported.

- Active Directory Support/Single Sign-on for central administration and rights assignment is available for all users, along with convenient system access.
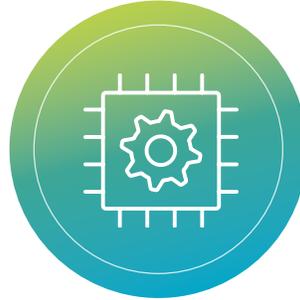
HARDWARE

- Qognify VMS is manufacturer independent – it supports a large number of camera models from various manufacturers.

- In addition, many other camera models can be integrated via the ONVIF standard.

- Analog cameras and systems are integrated via video encoders.

- Smart Drivers allow easy integration of new camera models.

ANALYTICS

- In addition to the embedded analytics within Qognify VMS, third-party video analytics (server- or camera-based) can be flexibly integrated via the QAI.

Video analytics and LPR

You have the option of adding intelligent analytics functions to your Qognify VMS installation. Here you can decided whether you want to integrate edge or server-based analytics solutions from numerous third-party providers via the Qognify Analytics Interface (QAI).

Alternatively, Hexagon offers the powerful real-time video analytics suite from Saimos as an ideal extension for your Qognify VMS system. In addition to perimeter protection, this server-based analytics solution allows you to cover various other use cases such as 2D counting, object detection, fire and smoke detection and facial analysis.

License plate recognition

The Qognify VMS LPR Module powered by Number OK technology can automatically read license plate formats from many international countries, including all 50 U.S. states. It can cover multiple lanes at the same time.

QogniFinder
Forensic search

QogniFinder is a non-proprietary forensic search tool leveraging the capabilities of edge devices and third-party analytics that can be used to quickly locate persons or vehicles of interest.

It significantly speeds up investigations by enabling operators to search, retrieve and replay recorded camera footage using search criteria that includes physical attributes such as color (of a vehicle or a piece of clothing), or typical accessories (like persons wearing glasses or hats), etc.

Focusing on your needs

Physical security solutions are never static. Use cases and regulations vary from industry to industry and technology is constantly evolving.

Focusing on the outcomes for large organizations in different industries and environments, Qognify VMS was designed to meet specific and dynamic requirements – to provide the maximum level of security.

Retail

Offering advanced functionalities to support loss prevention and better understand shopping behavior, Qognify VMS is designed to meet the specific requirements of retail chains.

It provides retailers with holistic security solutions that span the brick and mortar stores as well as e-commerce warehouses, leveraging advanced process visualization capabilities.
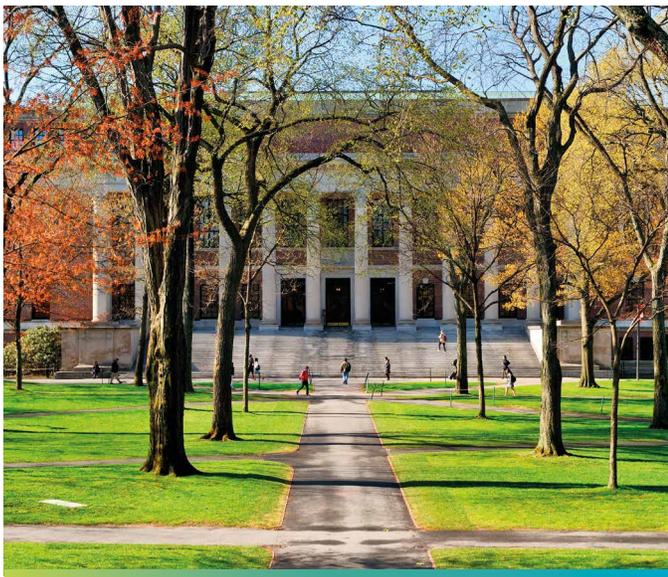
Government and higher education

Hexagon understands the unique requirements of keeping public spaces and campuses safe and offers a unified and integrated security platform for the public space and higher education. Qognify VMS contributes significantly to safety in public spaces, such as parks, roads and sports facilities and protects cultural assets from theft and vandalism. In conjunction with access controls or video analytics, it becomes a sophisticated alarm system to safeguard residents and students.

Transportation

Millions of passengers use public transportation every day, and video security managed by Qognify VMS is an essential part of protecting people in airports, train and subway stations and more.

Qognify VMS helps transportation companies make their infrastructure more safe and secure, optimize their operating and emergency procedures and ultimately save costs.

Banking and finance

Physical security in the finance industry can be demanding. Strict regulations, distributed systems and a variety of locations – branches, ATMs, operations centers, corporate offices – are just some of the factors to be addressed.

Qognify VMS is designed to meet these requirements – with an advanced IT security concept as well as with management and monitoring capabilities to support multisite environments.

Industry and corporate campuses

Protecting industrial plants and corporate campuses is a core element of the security strategy of enterprise organizations. It helps them address serious threats such as theft of data or assets, manipulation and sabotage, and industrial espionage. Qognify VMS captures the specific requirements of these organizations by providing a high degree of resiliency or a series of powerful open interfaces to make video a part of an overall physical security ecosystem.

Cybersecurity

Qognify VMS is well protected on the system level: data traffic between the server and client is safely encrypted. This is just one reason why Qognify VMS has been certified for various sensitive and critical use cases, e.g., within the financial sector. Since security threats are ever changing and technological advancements never stop, Qognify VMS provides you with a system that always adapts to new challenges. Regular security patches distributed with the help of an AutoUpdater ensure your version of Qognify VMS is always up to date – even automatically with a valid Support and Maintenance Agreement (SMA).
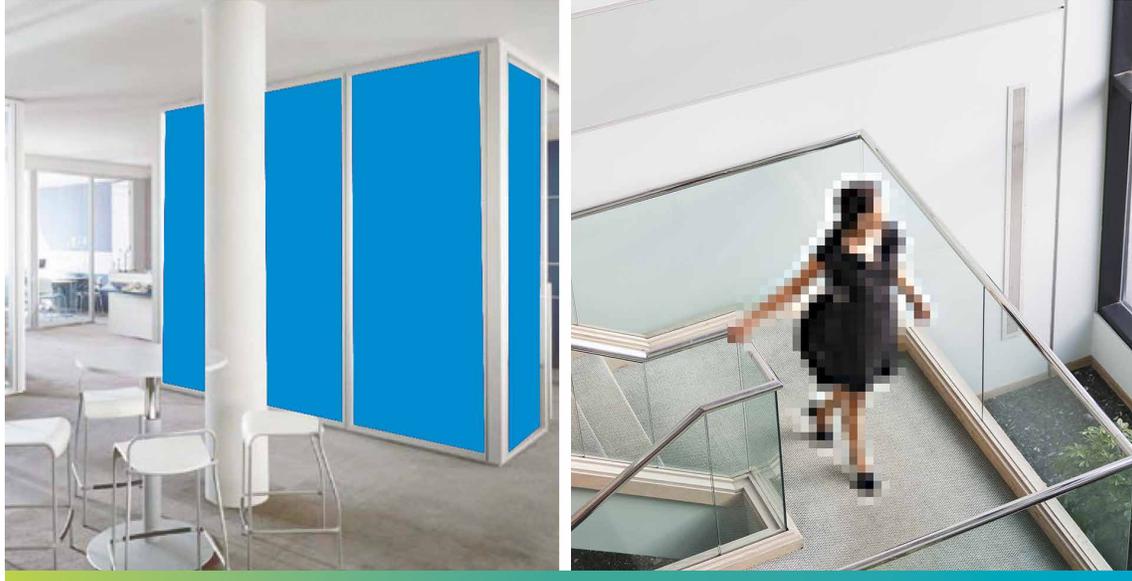
Privacy

Qognify VMS offers a number of functions to operate video systems in a secure manner and provide the best possible protection of privacy for employees, customers and visitors. For example, sensitive areas of the image or moving objects can be anonymized. Additional administrative functions such as the four-eye principle (passwords must be entered by at least two people) also provide software security when it comes to who can see the recorded data.

Privacy masking

Sensitive image areas (e.g., break and recreation rooms, public areas) are masked by a freely definable area and hidden in the live and archive images, depending on rights.

Motion scrambling

Moving objects or objects that differ from a reference image defined in advance are displayed pixelated in the live image and anonymized.

Flexible configuration

Qognify VMS can be customized easily to fit the needs of any company, no matter the size. Because software installation can be distributed across multiple servers, those servers can be positioned in different locations (e.g., stories) if required.

All systems – even large, globally distributed ones with thousands of cameras – can be managed and controlled centrally using Qognify VMS. The system architecture physically separates the clients from the server side. Because recording of image data and communication with cameras are integrated system services, no separate programs need to be launched or local logins are needed.

User management with different administrator levels

Qognify VMS facilitates the management of over 1,000 users. Detailed rights to control cameras or to access Qognify VMS components and functionalities such as buttons or maps can be assigned to each user individually. That means a user rights matrix based on the organizational structures of your company can be created.

ADVANCED ALARM SCENARIOS

Gives you the ability to define and specify complex alarm scenarios as to how to respond to specific events in case of an alarm, or which third-party systems are actuated.

WIZARD

Provides step-by-step workflows to easily create new system elements such as cameras or alarm scenarios.

MULTICONFIGURATION TOOL

Simplifies and accelerates the setup of multiple cameras and camera groups.

Resiliency

High availability with Qognify VMS is achieved by a combination of redundant system management and fail-safe recording. Using standard IT equipment, you can reduce the downtime of your system to a minimum – regardless of its complexity.
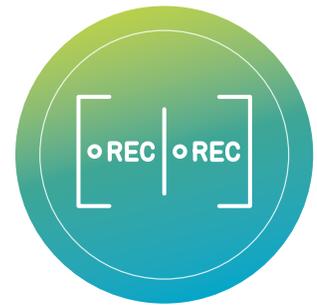
Redundancy

If the central administration server is unavailable, a proxy server comes into play and permits error-free operation of the system with the existing user rights (island mode). Windows Cluster and virtualization are supported.
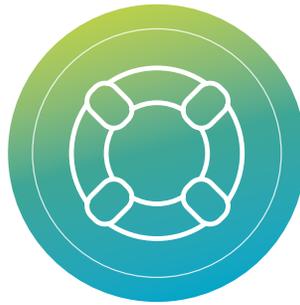
Failover

If a recording server fails, a hot-standby server automatically takes over and recording continues reliably.

Mirrored recording

To avoid gaps even when a recording server is removed or damaged, the system can be configured to mirror all recordings.

Administration and monitoring

In recent years, video surveillance projects have become larger and more complex, demanding more resources and increasing operational costs. Managing the configuration of multiple sites is time consuming and monitoring the health status of all servers and cameras across every location is a challenge. As a consequence, organizations frequently over-spend on technical expertise and unnecessary licenses, as well as potentially expose themselves to regulatory risk.

As an extension module for Qognify VMS, Umbrella enables the configuration, management and monitoring of all connected VMS systems across multiple sites using state-of-the-art web technology.
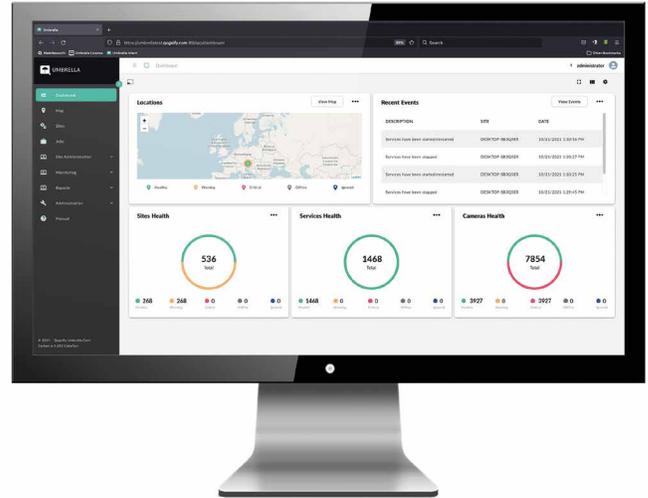
Configuration

The Configuration Module enables you to quickly and easily perform recurring administrative tasks for many independent Qognify VMS systems in one go.

Monitoring

The Monitoring Module provides fast and clear information about the status of the connected Qognify VMS systems.

Reporting

The Reporting Module allows for easy and quick documentation of the important parameters of the VMS configuration as well as of changes made by users.

Mobile Client

The Mobile Client allows fast, straightforward access to your Qognify VMS installation from anywhere in the world. It's available for iOS and Android and supports 4G/5G and Wi-Fi connections.
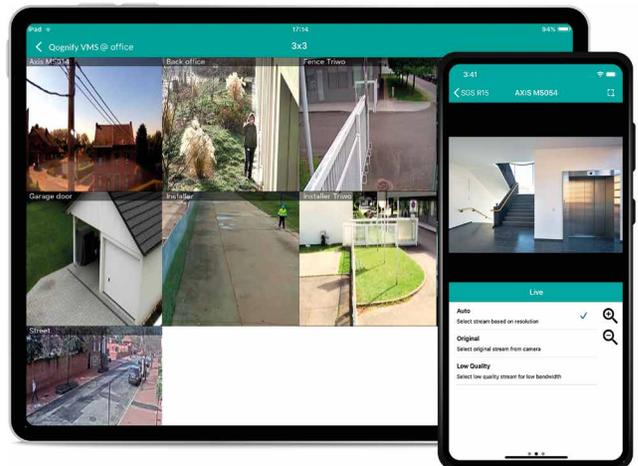
Variable and scalable

	Product package	BASIC only available in EMEA and APAC	PROFESSIONAL only available in AMERICAS	ADVANCED	INFINITY
GENERAL	Number of cameras	50	unlimited	unlimited	unlimited
	Number of servers	1	unlimited	unlimited	unlimited
	Number of clients	5	unlimited	unlimited	unlimited
	Number of I/O devices	unlimited	unlimited	unlimited	unlimited
	Number of cameras per server	50	unlimited	unlimited	unlimited
MANAGEMENT	Centralized management	✕	✓	✓	✓
	Multilevel administration	✕	✕	✕	✓
	Video restriction	✕	✕	✕	✓
	Camera sharing	✕	✕	✕	✓
	Multi installation login	optional	optional	✓	✓
	Camera edge-storage support	✕	✕	✓	✓
	Redundant management server	✕	✓	✓	✓
	Recorder failover	✕	✕	optional	✓
	Mirrored recording	✕	✕	✕	optional
	Logical grouping	✕	✕	✕	✓
	Active Directory support	✕	✕	optional	✓
	Extended recording and access	✕	✕	✕	✓
	Cloud storage	optional	optional	optional	optional
HANDLING	Maps	✓	✓	✓	✓
	Advanced maps (ESRI)	✕	✕	optional	optional
	Advanced alarm scenarios	✕	✕	✓	✓
	Click to track	✕	✕	optional	✓
	Click to mask	optional	optional	optional	optional
	Video file reader	✕	✕	optional	optional
INTEGRATIONS	SDK	optional	optional	optional	optional
	QAI (Analytics Interface)	optional	optional	optional	optional
	QEI (Events Interface)	optional (intrusion) [1]	optional (intrusion) [1]	optional	optional
	Integration of BriefCam	optional	optional	optional	optional
	Intercom integration (events)	✕	✕	✓	✓
	OPC interface	✕	✕	✓	✓
	VoIP support	✕	✕	optional	✓
	Umbrella integration (interface)	optional	optional	✓	✓
	BVI integration	✕	optional	optional	optional
	Body cam integration	✕	✕	optional	optional
ANALYTICS	QogniFinder (forensic search)	optional	optional	optional	optional
	Video Analytics (vie QAI)	✕	✕	optional	optional
	License plate recognition	✕	✕	optional	optional
	Reference image comparison	✕	✕	✕	✓
MISC.	Motion scrambling	✕	✕	✓	✓
	Transcoded archive playback	optional	optional	optional	✓
	Display agent (video wall)	✕	✕	optional	✓

[1] According to a defined list. A list of supported solutions /devices will be provided by Qognify on request.

HEXAGON

Hexagon is the global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications. Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

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, utilities, defense, transportation and government. Learn more at hexagon.com and follow us @HexagonAB.