

**Video Management
Solutions**

AT A GLANCE

**MAKE THE
WORLD SEE**

 **milestone**



TABLE OF CONTENTS

We make the world see	>	4
<hr/>		
Video technology on your terms	>	6
<hr/>		
This is XProtect®	>	8
<hr/>		
A combination for every business	>	10
<hr/>		
The right hardware	>	12
<hr/>		
Open to innovation	>	14
<hr/>		
Cybersecurity	>	16
<hr/>		
Peace of mind starts here	>	18
<hr/>		
Get the most from your Milestone solution	>	20
<hr/>		
Reach out	>	22

WE MAKE THE WORLD SEE

Collecting video data and using it intelligently can be a powerful way of changing behavior, preventing unwanted incidents, and even optimizing current and future business operations. At Milestone, we design video management solutions (VMS), including both software and hardware that enable you to do exactly that.



From software ... to system ... to solution

When we started back in 1998, VMS was about simply recording video from a camera onto a hard drive. Today, it can be an effective video management solution for improving customer service, adding security, managing traffic, identifying business opportunities, documentation and so much more.

Spanning two decades, where customer needs and opportunities have grown, we have explored the power of video technology together with our partners.

The evolution of VMS, from singular software to system to integrated solution, was sparked by our open platform welcoming and enabling

entrepreneurship from all corners of a continuously growing industry.

By keeping our software platform open to the community, it has been utilized in more ways than we ever imagined.



500,000

Installations



10,000

Resellers & Integrators



8,500

Cameras Supported



3,500

Technology Partners



450

Software Integrations



23

Offices Worldwide



Smart Pompeii

“ We have created Smart Pompeii, a platform that truly integrates information and data from several sources so that the park can be better managed, ensuring people and monuments are kept safe and secure.”

—
Alberto Bruni
Ministry official for cultural assets and activities, Pompeii, Italy



Guide dog in Victoria

“ This solution is about giving maximum control to the staff, enabling them to do the best job possible.”

—
Paul Metcalf
Guide Dogs Manager, Guide Dogs Victoria, Australia



Dick Hannah Dealership



City of Calgary

“ There isn't any better data collector than a camera. And if you can tie all that data together, you really have an effective and usable system.”

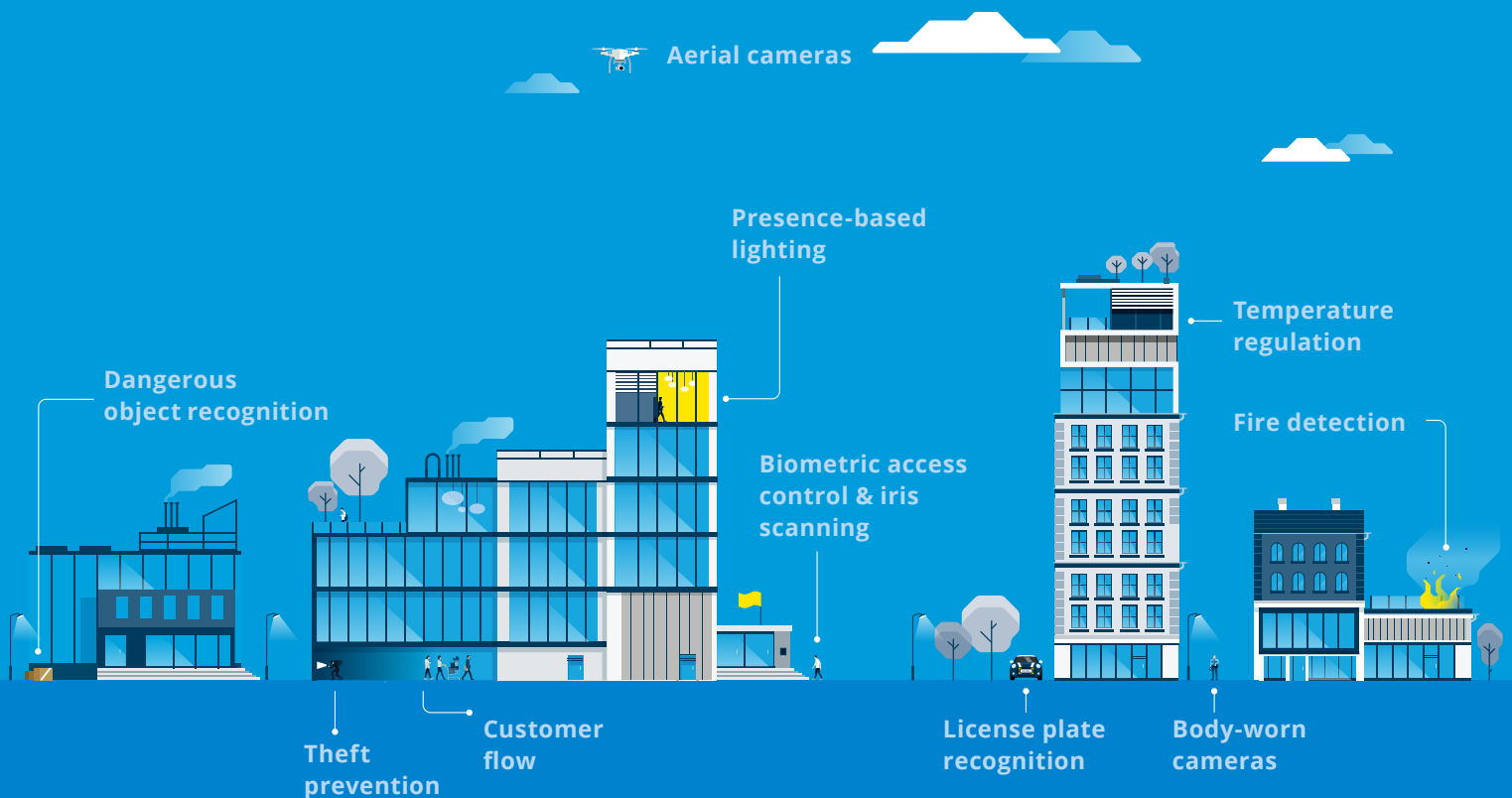
—
Alex Lee,
Security Advisor of Technical Operations, City of Calgary, Canada

“ The video is now an extension of management. Either on-site or through smartphones.”

—
Sean McKannay,
CIO & Digital Marketing Director, Dick Hannah Dealerships, USA

VIDEO TECHNOLOGY ON YOUR TERMS

As our customer and partner, you are free to choose your hardware, infrastructure and budget. In short, we make sure you get the solution that is ideal for you - on your terms.





Technological advancement is a constant

The key is to match the most effective technology with the most important operations. We watch, listen and learn in order to provide you with solutions that suit your needs, often making the most of your previous solution.

This includes always giving you the ability to use your own hardware and different integrations. Also, with our truly open platform, you are given even more freedom of choice for the future.

Everything we do is open

We always see our solutions from a solution owner perspective. This means that we are open to collaboration, integration and joint solutions, harnessing and enabling innovation from our partners.

This pushes the capabilities of your solution beyond the natural scope of the product.

The AI Revolution: From collecting to learning

The rise of Internet of Things (IoT) and artificial intelligence (AI) makes unlocking the full potential of VMS even more relevant.

The journey has already begun. We are no longer simply collecting data; we are collectively learning from it. The technology of facial recognition alone presents huge opportunities for anything from law enforcement and security to user-friendly access – opportunities no organization should overlook.

We are already seeing numerous unique and exciting solutions based on our platform.

copenhagenletter.org

The Copenhagen Letter & The Copenhagen Clause

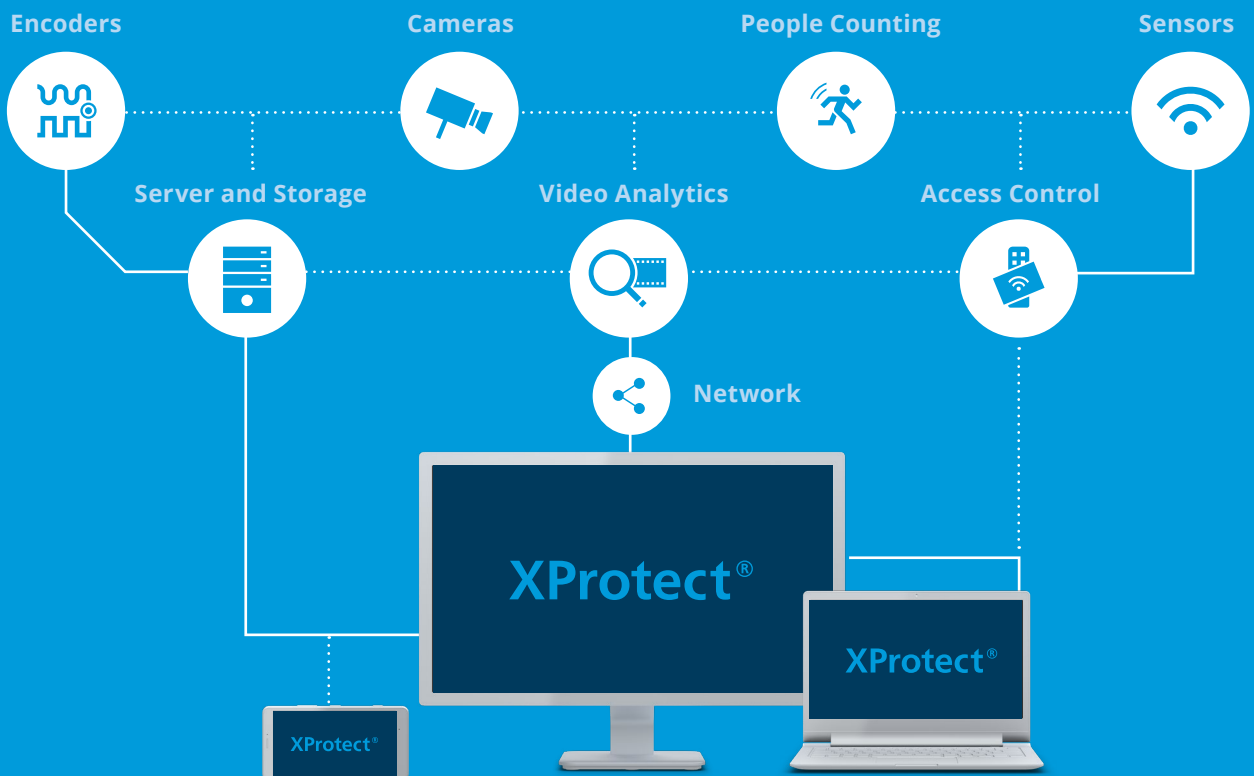
With all the options made available by our platform, we are dedicated to choosing a both sustainable and responsible path. That is why we are co-creators of the Copenhagen Letter, copenhagenletter.org, a technology declaration to further an open and honest public conversation about the power of technology and how it should enhance the quality of life. But we aren't stopping there.

The Copenhagen Letter inspired us to introduce the Copenhagen Clause in our license and partner agreements, where we encourage our partners and customers to involve themselves and respect the important discussion about Responsible Use of Technology. This way, we are holding ourselves accountable, replacing words with concrete action.

THIS IS XPROTECT®

XProtect video management software brings all the puzzle pieces of a video surveillance installation together in a perfect combination to create a solution that keeps people and property safe today – and tomorrow.

XProtect's open platform architecture fosters an ever-expanding community of camera manufacturers, application providers and software developers, all working to create integrations and extensions to XProtect. Building your video installation on XProtect gives you the opportunity to leverage this community and its thousands of integrated solutions to add additional value and capabilities to your solution.



WHY XPROTECT IS THE RIGHT CHOICE

When we developed Milestone XProtect in 1998, the video surveillance industry was vastly different than today. CCTV and analog equipment ruled the market, and black and white footage was the norm for most video surveillance operations.

Fast forward to today and video surveillance is capable of so much more. From crystal-clear HD footage to body-worn cameras and advanced video analytics, to facial recognition, access control and IoT devices. Building your video solution requires a solid foundation – it requires XProtect.



+8,500 cameras supported



+500,000 installations worldwide



Three annual product updates

The safe and reliable choice

When you invest in a video surveillance solution, you invest in much more than hardware and software.

You invest in safety for your home, business, people and assets, so you can protect what matters the most.

Choosing XProtect as your foundation means choosing a solution developed by innovative surveillance experts working to solve your challenges. With 20+ years on the market, XProtect has proven to be the right answer for more than 500,000 customers worldwide – from flower shops to universities, stadiums and cities.

Our software. Your solution

We understand that there is no one-size-fits-all when it comes to video surveillance, and we know that every operation is different. This is why we took an open platform approach when we designed XProtect.

With our open platform architecture, you can build on XProtect's strong foundation to create a unique solution that matches your operation.

24/7 peace of mind

Airports, casinos, prisons and other 24-hour operations depend on constant, reliable surveillance all day, every day. For you (and us!) that's a huge responsibility.

We take that responsibility seriously. This is why XProtect is built by video surveillance experts who know what it takes to deliver a strong, high-performing, reliable solution.

Software built for today – and tomorrow

Video surveillance comes in all shapes and sizes, from a few local cameras to thousands spread across the globe. Regardless of the initial set-up, we know that at some point you will need to adjust or expand it. This is why XProtect is scalable.

Advanced solution, simple use

Let's be realistic. Sometimes bad things happen – and when they do, you need a complete picture to react immediately. This is why XProtect is designed with both simplicity and sophistication in mind, giving operators the ability to be in absolute control of any situation, instantly. Whether you are a daily user or an occasional viewer, XProtect is designed to be simple to learn and easy to use without compromising on advanced capabilities.

Security you can count on

XProtect comes standard with an array of security mechanisms that keep your solution and its data protected against internal and external threats.

A COMBINATION FOR EVERY BUSINESS

XProtect® comes in 5 variants, each designed to match different segments and needs.

FREE

XProtect® Essential+

Supporting up to 8 cameras and ideal for small businesses.

XProtect® Express+

Supporting up to 48 cameras and designed for smaller single-site installations with basic security needs.

XProtect® Professional+

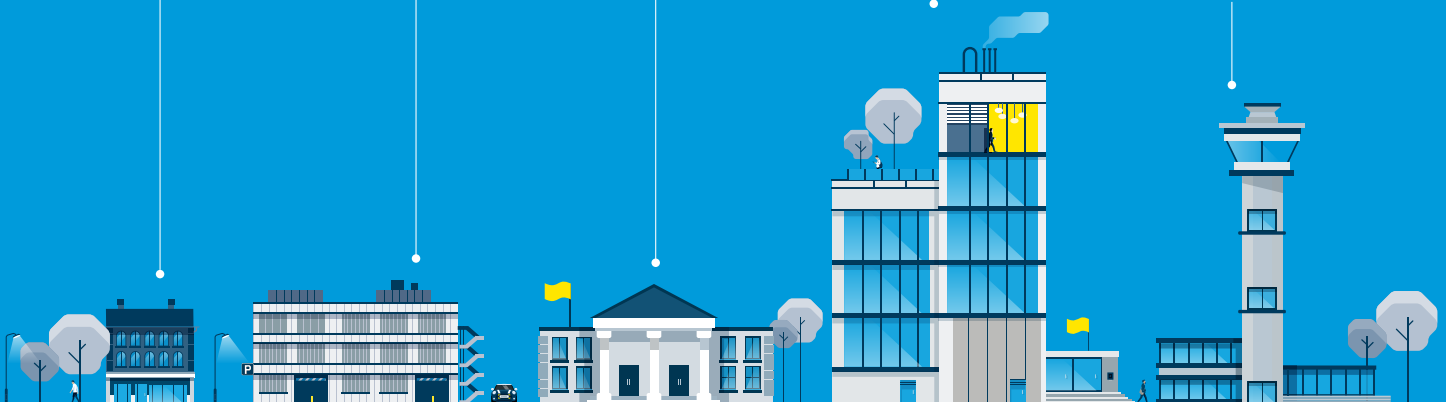
Supporting an unrestricted number of cameras and servers. Optimized for multi-site companies needing to quickly identify and respond to incidents.

XProtect® Expert

Supporting an unrestricted number of cameras and servers, and designed for large-scale installations that require end-to-end protection of video integrity.

XProtect® Corporate

Supporting an unrestricted number of cameras and servers, and designed for high-security and mission-critical installations that demand supreme situational awareness of any event and uninterrupted access to live and recorded video.



ALWAYS KNOW WHAT'S HAPPENING

Whether you are at home, at work or on the go, you are in control with three flexible ways to access XProtect.



 **XProtect Mobile**

View and export live and recorded video directly from your phone

Send live video from your phone directly to the XProtect VMS.

 **XProtect Web Client**

Intuitive, web-based interface that works with all common browsers and operating systems

Perfect for occasional users and for coordinating after-hours incident response.

 **XProtect Smart Client**

Powerful, task-based interface to manage daily operations

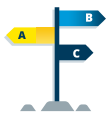
Get unparalleled situational awareness with interactive maps

Manage integrated applications (such as access control and license plate recognition) directly from the Smart Client.

THE RIGHT HARDWARE

To support your XProtect[®]
video management solution.

It is easier to start right with your video installation when you have the correct components. Match up your XProtect software with the right hardware – whether it's Milestone branded, or provided by one of our verified partners.



Freedom of choice

The Milestone Husky™ NVRs (Network Video Recorder) are the perfect fit for projects that require the same vendor for software and hardware.

For those looking for a larger variety of hardware, still pre-installed with Milestone XProtect – the System Builder partner solutions are the answer.

Depth of the hardware portfolio

The many different uses of a Milestone VMS calls for a wide range of hardware. To ensure you can find the server setup that is just right for your solution, Milestone Husky is not the only server option that is designed for Milestone XProtect.

The System Builder Program guarantees a wide a range of server-products of all sizes with XProtect pre-installed and verified by Milestone Systems.



Unlock the full potential

Milestone Husky X-series, built to perform with XProtect.



System Builder Program

Verified partner hardware solutions with pre-installed Milestone XProtect software.



Designed to Perform with XProtect

Remarkable performance and low total cost of ownership (TCO).



Scalable

Increase your capabilities with Husky X-series by adding more storage, or a different XProtect VMS variant to support your installation.



Flexible

Use in a variety of ways to match cost and suit functional and operational needs.



Customizable

Meet specific surveillance needs and budget.



Peace of Mind

All System Builder Program products come with XProtect pre-installed and are verified by Milestone Systems to work with Milestone XProtect.



User Experience

A wider range of tested and validated hardware with XProtect pre-installed, contributes to an optimal user experience.



Add-Ons

Access to the many software add-on options from Milestone Technology Partners.



Easy Upgrade

Easily upgrade to a different XProtect VMS variant or product release.

XProtect®

OPEN TO INNOVATION

To succeed, you should always be leaning into the future. Technology is expanding so rapidly that we all need to be flexible, robust and agile. That is why freedom of choice is at the core of our open video management platform, ensuring that you can match your needs with effective technologies.



Open Platform enables video

It makes it easy to add video functionality to security and business solutions. There is no limit to what video can be used for, including training, customer service and delivery logistics. In short, with our Open Platform Community, we can tailor a new video solution for you based on what you already have.



Open means endless integration possibilities

Milestone Integration Platform Software Development Kit (MIPSDK) makes endless integrations possible via our application programming interface (API), enabling any business application and system to be integrated into our video management solution.



Open means future-proof

It gives you the ability to take advantage of an entire industry's innovation, increasing the value of your solution today and in the future.



Open means freedom to choose

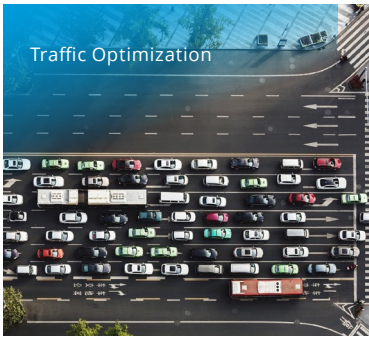
It gives you a pathway to address the change: that video management software capabilities now extend far beyond traditional security and into every arena of business.



Emergency Response



Transportation



Traffic Optimization



Security Innovation



Environmental Conservation



Wildlife

Population and the Environment are Driving Innovation

The freedom to take advantage of community innovations in response to market needs allows you to continually update and improve your solution.

Using layered algorithms, artificial neural networks are now able to identify and interpret complex patterns in ways similar to the human brain.

Incorporating these algorithms into existing technologies enhances their intelligence, expands product options and boosts ROI in increasingly varied markets: **in security, transportation, emergency response, traffic optimization, the environment and even wildlife protection.**

milestone | marketplace

Explore Open Platform Innovation

Explore • Connect • Deploy

Discover how your solution can benefit from the latest technology innovation and connect with the right people and documents at the right moment.

Milestone Marketplace offers an intuitive structure for connecting and forging relationships and providing you with a battery of verified smart software or hardware to build upon.

Find your Next Software, Hardware or Service:
milestonesys.com/start-exploring



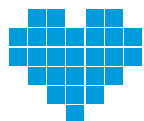


CYBERSECURITY

Secure by design, by default
and by deployment

Focus on cybersecurity is on-going just as the risks of cyberattacks are ever evolving. We take both very seriously while maintaining focus on ensuring flexibility as well as user-friendliness.

Milestone XProtect® VMS software offers an array of security mechanisms making it possible to protect the solution from both internal and external security threats, without compromising the solutions' flexibility or usability.



Cybersecurity at the heart of development

With Milestone XProtect VMS products you get the highest security protection against internal and external security threats. Tiered administrator and user rights, enforced on the server side, combined with the use of strict IT security procedures make XProtect VMS the ideal choice for organizations with a focus on cybersecurity – providing:

High-level encryption and security (HTTPS) of web and mobile user access	Full authentication and authorization of third-party applications integrated via Milestone Integration Platform SDK (MIP SDK)	All identified vulnerabilities scored according to an industry standard Common Vulnerability Scoring System	
Industry standards – ISO / IEC 29147:2018	Digital signing encryption and password protection of video databases and exports	Option for Windows AD user authentication via Microsoft NTLM or Kerberos authentication	HTTPS – secure camera connectivity
Product Security Incident Response Team (PSIRT)	Full traceability of user actions with audio log	Strict and time-controlled user rights management, enforced server side SDK (MIP SDK)	Possibility for physical separation of camera networks and client network

Maintaining security without compromising safety

All our products and solutions are designed to deliver secure end-to-end communication, protecting privacy while safeguarding data.



XProtect Corporate – the only GDPR-ready certified* VMS

Privacy masking – built-in feature designed for protecting people's privacy without compromising security

Role management – making sure only people with the right user-permissions have access to certain data

*Certified by EuroPriSe - the European Privacy Seal for IT Products and IT-Based Services



PEACE OF MIND STARTS HERE

Milestone Care™ is a complete service and support program that takes care of your product throughout its lifetime.

Designed to give you peace of mind, the Care program includes three packages. Whether you need frequent software updates, 24/7 access to Milestone Support or critical incident resolution, there is a package to suit your needs.

Our commitment to you and your business is to make sure you can take full advantage of your product and get the most from your investment.

All System Builder Program products come with XProtect pre-installed and are verified by Milestone Systems to work with Milestone XProtect.



Milestone Care™ Plus

When you want to protect your investment

Care Plus is designed to ensure you are ready for the future. Whether the future brings new technological innovations or responses to security challenges, this package helps keep your solution up to date and ready to react quickly to changes and opportunities, and includes:

- Instant access to product updates three times annually.
- Reseller access to Milestone Customer Dashboard to ensure system health and stability .
- 100% trade-in credit when upgrading so you can seamlessly grow your installation over time.
- Exclusive online features like push notifications and Smart Connect.



+ Expand Care Plus with

Milestone Care™ Premium

When you need 24/7 direct technical support

- Direct 24/7 access to a global team of Milestone technical support engineers.
- A service-level agreement with committed response time.
- Prioritized support to promptly address critical system issues.
- Localized support in select markets based on availability.



+ Expand Care Plus with

Milestone Care™ Elite

When you need a dedicated Milestone Technical Account

- Customized service-level agreement defining the exact level of support your business requires.
- Direct and prioritized access to Milestone Technical Support 24/7 with committed resolution objectives.
- A dedicated Milestone Technical Account Manager with extensive knowledge of your installation.

GET THE MOST FROM YOUR MILESTONE SOLUTION

Milestone offers a portfolio of support tools and services that can help you get the most from your XProtect® solution throughout its lifecycle.



Starting Out

When establishing your Milestone installation, both online support and on-site consultancy services are available to ensure correct installation.

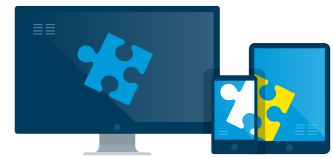
A broad range of free eLearning courses and tutorials can guarantee that technicians are educated in system details and operators are prepared for daily demands.



Maintain, Optimize and Extend your Solution

When up and running, you can benefit from our technical support and system health checks to ensure optimal configuration and the best possible functionality for your environment.

We also offer proactive system monitoring tools and insights in extending solutions for future needs.



Customizing your Surveillance Solution

When the need arises to further develop your solution with new functions, or to integrate other business processes, our engineers are on hand to help customize your solution.

Help Yourself with Tools and Training

Learn how to use and maintain your Milestone solution

Assistance getting the most from your Milestone solution is never far away.

We offer you an extensive portfolio of online system documentation, best practice guides and hands-on support tools.

Free online training

Milestone offers eLearning courses targeted at both operators and system administrators, as well as in-depth technical courses for installers and developers.

It is self-paced and available online, 24/7.

Looking for in-person training?

We also offer customized, in-person training courses.

Contact your Milestone reseller or Milestone Professional Services for more information.

Learn more:

milestonesys.com/support,
doc.milestonesys.com, and
milestonesys.com/learning-portal



Let Milestone Consultants help

Milestone Consultancy Services offer a portfolio of solution deployment and optimization services designed to unlock the full potential of your installations.



Learn more:

milestonesys.com/customdevelopment and
milestonesys.com/professional-services

01. Getting your solution up and running

Milestone System Start-up service can get your installation started – available both remotely and as an on-site service.

02. Designing your solution

With System Design service, we can recommend a system design that ensures performance and fulfill the safety and security requirements of your business.

03. Customizing your solution

Milestone Custom Development delivers tailored consultancy and engineering services to enable customization, system integrations and secure optional performance.

04. Working with solution upgrades

Utilize our engineering experience through the Upgrade Assistance service to ensure a smooth upgrade process and priority support.

05. Fine-tuning system performance

Our System Health Check helps you generate a system overview and provides best practice recommendations for optimizing your solution.

REACH OUT



Milestonesys.com



Twitter.com/milestonesys



Linkedin.com/company/milestone-systems



Youtube.com/Milestonesys



Facebook.com/milestonesys



Instagram.com/milestonesystems



Try our software for free!

Experience the benefits of
XProtect® VMS with a 30-day
free trial

Visit [milestonesys.com](https://www.milestonesys.com)

PRODUCT SHEETS



XProtect® Essential+

The Most Feature-Rich, Free VMS in the Market

XProtect Essential+ is a full-featured version of Milestone's market-leading video management software (VMS) at no cost.

Supporting up to eight devices, XProtect Essential+ is the perfect match for smaller businesses who want basic video surveillance to protect employees and assets.

With the ability to integrate with other systems and applications, you can utilize thousands of solutions from Milestone's community and maximize your investment.



Reliable

24/7 peace of mind

When you don't have time to monitor your video surveillance system daily but still need to be on top of everything from anywhere, XProtect Essential+ gives you complete peace of mind.



Customizable

Our software, your solution

With XProtect Essential+ you get the freedom to build the system just the way you like it, even integrating with other systems.



Scalable

Software built for today and tomorrow

Starting with XProtect Essential+ means starting with a system that scales with you to meet your future needs.



User-friendly

Advanced system, simple use

You probably don't have time to look at your video 24/7. That's why XProtect Essential+ is designed to help you perform your tasks quickly and efficiently.



Secure

Security you can count on

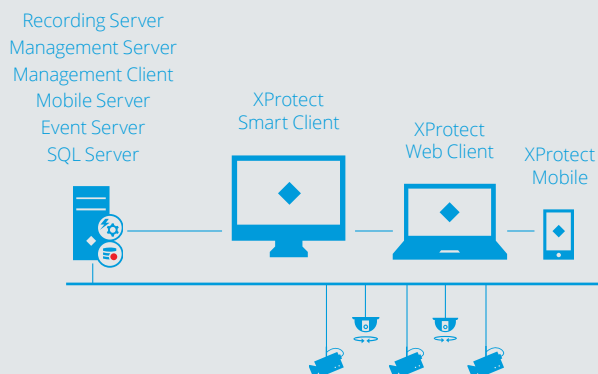
When you want to reduce the security risk of your system and protect it against internal and external security threats in the most optimal way, you can rest assured that XProtect Essential+ gives you the protection you need.



Turn the page
to see how!

System Diagram – Simple system, all in one

Simplest possible design where everything is connected to the same network and all server components and XProtect clients run on the same server/PC.



HIGHLIGHTED FEATURES

XProtect Clients

Access your system anytime, anywhere with support for all three XProtect Clients.

Retention

Unlimited retention time means video recordings are always there when you need them.

No Restrictions

No strings attached – no VMS costs associated, no re-registration required, or time limitation applied – just download and get started right away.

Device Support

With support for the widest range of hardware devices, you can connect any camera that fits your needs and budget, including ONVIF-compliant devices.

Device Packs

Access to bi-monthly Device Packs with drivers that help you connect your VMS to other and newer devices.

Third-Party Integration

Integrate and embed third-party applications, such as access control, people counting and video analytics, directly into the software for one unified and easy-to-use system.

Upgrade

For more capacity, capabilities or locations, simply exchange your license for a more advanced XProtect variant.

Expansion

Easily grow and expand your system in terms of adding devices (up to 8) or third-party applications.

Search Tools

Find the needle in the haystack with the ability to search through motion-only recordings or motion only in a selected area.

Export

If something happened, video is often the best witness. You can export the video as still images, video files and in the native database format, ensuring you match the need of the recipient.

Local Languages

The interface is available in 30 different languages, removing potential language barriers.

Password Protection

To ensure that evidence doesn't end up in the wrong hands, you can password protect video files and limit access to authorized users.

HTTPS

Supports HTTPS communication between the recording servers, connected cameras and other security devices.

Encryption

Certificate-based encryption to secure the communication of data (video, audio, metadata) originates in the Recording Server and is retrieved by connected components.



Try for free:
milestonesys.com



XProtect® Express+

Easy-to-use Video Surveillance for Smaller Businesses

XProtect Express+ is video management software (VMS) for smaller, single-site businesses with a light need for live video monitoring.

Supporting up to 48 devices and the ability to integrate with existing operations, such as access control and people counting,

XProtect Express+ is the perfect match for retail stores, parking lots, or office buildings.



Reliable

24/7 peace of mind

When you don't have resources available to look at the video 24/7 but still need to be notified if anything requires your attention, XProtect Express+ is your answer.



Customizable

Our software, your solution

With XProtect Express+ you can customize your VMS and use it for more than just security to maximize your investment.



Scalable

Software built for today and tomorrow

When you need a system that's expandable to meet future requirements to protect the initial investment, XProtect Express+ gives you the scalability you're looking for.



User-friendly

Advanced system, simple use

When you only use the system occasionally and can't spend time figuring out how it works, XProtect Express+ is designed with simplicity in mind, so you can quickly do your tasks and move on.



Secure

Security you can count on

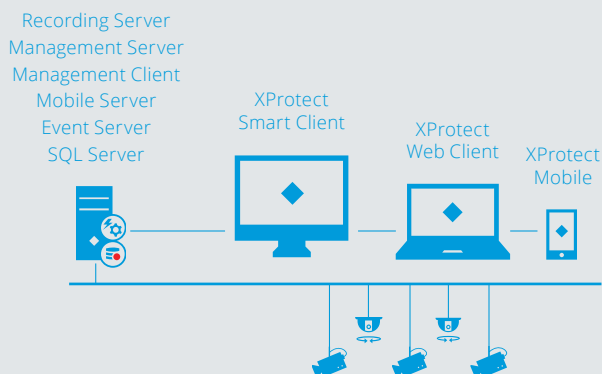
When you want to reduce the security risk of your system and protect it against internal and external security threats in the most optimal way, you can rest assured that XProtect Express+ gives you the protection you need.



Turn the page
to see how!

System Diagram – Simple system, all in one

Simplest possible design where everything is connected to the same network and all server components and XProtect clients run on the same server/PC.



HIGHLIGHTED FEATURES

Push Notifications

With support for push notifications, you can sleep soundly knowing the system will automatically notify you if anything requires your action.

XProtect Clients

Whether you are on-the-go, off-site or onsite, your installation is only a click away with support for all three XProtect clients.

Recording rate min. 3.1 Gbit/s

Running on the best-performing recording engine in the market, you get a reliable system you can always count on.

Third-Party Integration

Take advantage of Milestone Marketplace and integrate with third-party integrations like access control and video analytics proven to be compatible with XProtect.

XProtect Add-Ons

Add extra value and functionality to your video installation with any of the XProtect Add-on products that work out of the box with XProtect.

Encryption

Certificate-based encryption to secure the communication of data (video, audio, metadata) originates in the Recording Server and is retrieved by connected components.

Per-Device Licensing Model

A simple per-device licensing model lets you choose the number of device licenses you need today while giving you the freedom to easily expand with more devices in the future.

Easy Upgrade

If you want to expand to multiple locations or extended capabilities, a simple license exchange will upgrade your current system to one of the more advanced XProtect variants.

Milestone Interconnect™

If you have many smaller installations spread across geographically detached sites but need central operations, you can link them with XProtect Corporate.

Multi-Layer Maps

Although simple and intuitive to use, multi-layer maps and alarm management give you a complete overview of your installation so you are always on top of things.

Adjustable User Interface

An adjustable user interface allows you to optimize the user experience to match your and other users' roles and responsibilities.

Centralized Search

Save time and effort with advanced search tools that help you easily find what you're looking for in no time.

Rule Engine

A built-in Rule Engine makes it possible to automate a wide range of security functions, increasing operational efficiency.

User Access

If multiple users need to access the system, you can effectively control each user's access permissions on the viewing client level.

Dual Authentication

Offer an additional level of security by granting the user access to the viewing interface only when a second user has confirmed the login with dual authentication.

Password Protection

To ensure that evidence doesn't end up in the wrong hands, you can password protect video files and limit access to authorized users.

HTTPS

Supports HTTPS communication between the recording server and the connected cameras and other security devices.

Metadata

Do more with your system with support for metadata.



Try for free:
[milestonesys.com](https://www.milestonesys.com)



XProtect® Professional+

Complete Installation Overview for Mid-Sized Organizations

XProtect Professional+ is IP video management software (VMS) designed for mid-sized and multi-site businesses, supporting an unrestricted number of cameras, devices and servers.

Multi-layer maps and full alarm management capabilities provide operators a complete overview of the entire installation, making

it ideal for institutions such as schools, retail chains, and production plants.



Reliable

24/7 peace of mind

Designed to give you the most reliable recording engine in the industry while boosting the overall performance of your hardware. Built by video surveillance experts to provide best-in-market performance you can always count on.



Customizable

Our software, your solution

Rather than being restricted to one company's product, the open platform architecture of XProtect Professional+ allows you to take advantage of dozens of verified and integrated solutions, maximizing the value of your surveillance system.



Scalable

Software built for today and tomorrow

With XProtect Professional+ you can scale the system to any size and any location, from small 10-camera systems to systems consisting of hundreds of cameras spread across multiple sites.



User-friendly

Advanced system, simple use

When you need to stay on top of the entire installation, from anywhere at any time so you can respond to incidents quickly, XProtect Professional+ provides it all.



Secure

Security you can count on

When you want to reduce the security risk of your system and protect it against internal and external security threats in the most optimal way, you can rest assured that XProtect Professional+ gives you the protection you need.



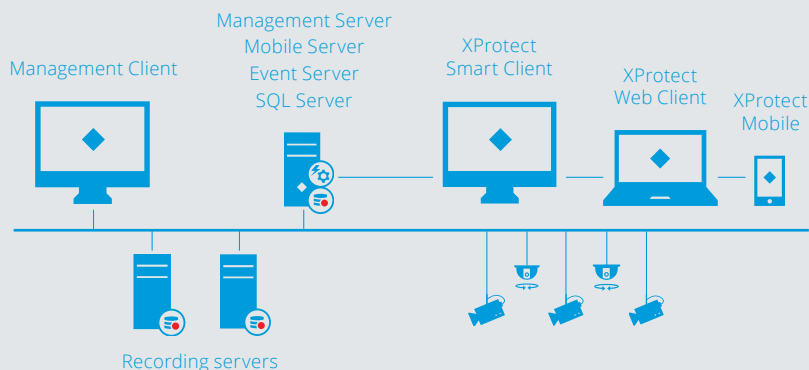
Turn the page
to see how!

Centralized Management

Central and single-point administration of all system components and settings.

Recording servers can be installed on an unrestricted number of sites or multiple servers on the same site.

Central access interfaces to live and recorded video from all connected sites.



HIGHLIGHTED FEATURES

Hardware Acceleration

Supporting hardware-accelerated video motion detection gives you the best system performance in the industry while lowering the overall system costs.

Two-Way Audio

Actively monitor entry points and communicate with people at gates with two-way audio support.

Recording rate min. 3.1 Gbit/s

Running on the market's best-performing recording engine, you get a reliable system you can count on.

Push Notifications

Support for push notifications gives you peace of mind, knowing the system will automatically notify you if anything needs your attention.

MIP SDK

XProtect's open platform architecture and Milestone Integration Platform Software Development Kit (MIP SDK) allow for powerful integrations and unlimited functionality.

Metadata

Add additional value by linking video with metadata like GPS coordinates, heat maps, motion data and facial recognition.

Rule Engine

A built-in Rule Engine makes it possible to automate a wide range of security functions, increasing operational efficiency by eliminating the need for manual intervention.

Milestone Marketplace

With Marketplace you get easy access to Milestone-verified applications, hardware, and services proven to be compatible with XProtect.

H.265

Reduce the cost of video storage by using the latest H.265 video compression technology.

Unrestricted

With support for an unrestricted number of users, cameras, and servers, you can spread the installation across multiple servers and sites.

Upgrade

A simple license exchange will upgrade your current system to one of the more advanced XProtect solutions, unlocking more opportunities for you and your business.

Multi-Layer Maps

See the whole picture and immediately take action with multi-layer maps displaying live video feeds and exact camera locations.

Alarm Manager

Work smarter with the built-in Alarm Manager, providing a consolidated overview of security and system alarms for immediate visual verification.

Bookmarks

Bookmark video sequences of special interest while watching live or playback video and make video investigation more efficient.

Centralized Search

Save time and work efficiently with Centralized Search that helps you quickly find what you're looking for in a single place.

Central Management

Scale your system while effectively managing everything from one central location with centralized management.

Edge Storage

With Edge Storage support you can design a flexible and reliable solution optimized for bandwidth availability, while offering recording redundancy during system failures or maintenance downtime.

User Access

If multiple users need to access the system, you can effectively control each user's access permissions on the viewing client level.

Dual Authentication

Offer an additional level of security by granting the user access to the viewing interface only when a second user has confirmed the login with dual authentication.

Encryption

Certificate-based encryption to secure the communication of data (video, audio, metadata) originates in the Recording Server and is retrieved by connected components.



Try for free:
[milestonesys.com](https://www.milestonesys.com)



XProtect® Expert

Powerful Live Monitoring for Larger Distributed Installations

XProtect Expert is IP video management software (VMS) designed for mid-sized and large-scale installations which require active live monitoring.

It ensures end-to-end protection of video integrity while maximizing hardware performance. Central management, Edge Storage and failover recording servers and

optional video wall support make it ideal for installations spread across multiple locations, such as warehouses and stadiums.



Reliable

24/7 peace of mind

Designed by video surveillance experts to provide you with the industry's most reliable recording engine for boosting the performance of your hardware, with support for Edge Storage and failover servers for continuous and uninterrupted access to video.



Customizable

Our software, your solution

Expand the capabilities of your system to fit your organization's needs with dozens of verified leading solutions securely integrated using the open platform SDK architecture.



Scalable

Software built for today and tomorrow

Support for an unrestricted number of servers, cameras and users provides efficient central management of systems of all sizes.



User-friendly

Advanced system, simple use

Centralized search platform, multi-layer maps and video wall support assure efficient investigation, intuitive camera navigation and immersive visualized situational awareness when responding to incidents.



Secure

Security you can count on

Reinforce your system's resilience to cyber security threats without compromising people's privacy with an array of built-in security and privacy tools.



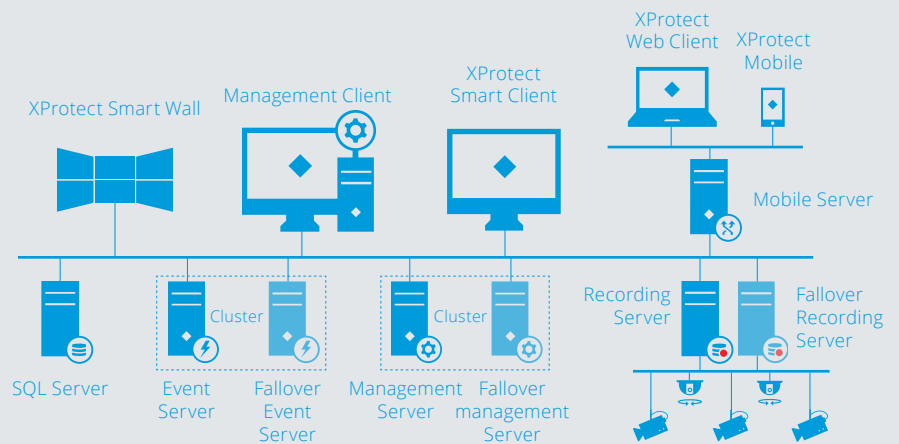
Turn the page to see how!

High Availability System

Central and single-point administration of all system components and settings.

Failover servers act as a backup to primary recording and event servers and may be clustered for high-availability.

Integrated flexible and hardware independent video wall optional for supreme situational awareness.



HIGHLIGHTED FEATURES

Hardware Acceleration

Support for NVIDIA® and Intel® hardware-accelerated video decoding for unparalleled performance, reduced CPU loads and lower system costs.

Edge Storage and Failover Servers

Support for Edge Storage recordings and Failover Servers for uninterrupted access to video, even during system failures and maintenance downtime.

Push Notifications

Proactive online system health monitoring for uninterrupted business operations and quick response when something in the system requires your attention.

MIP SDK

XProtect's open architecture and MIP SDK provide unrestricted expansion of your system.

Metadata

Augment your video by adding metadata, such as GPS coordinates, motion data, and facial recognition from smart and IoT devices.

Milestone Marketplace

Get direct access to dozens of verified products that push video beyond security.

H.265

Reduce the cost of video storage by using the latest H.265 compression technology.

Central Management

Centrally manage multiple sites with XProtect Corporate as a central hub using Milestone Interconnect as a cost-efficient solution for distributed operation.

Upgrade

Unlock the full capabilities of XProtect with a simple license upgrade to XProtect Corporate.

Multi-Layer Maps

For quick navigation between buildings and floors and visual overview of installations in every size.

Alarm Manager

Built-in Alarm Manager for a consolidated overview of security and system alarms, immediate visual verification and efficient investigation.

Video Bookmarking

Bookmark video sequences of special interest while watching live or playback video for efficient video investigations.

Centralized Search

Search for video, motion, alarms, events and bookmarks all in one place and save your search templates for quick future investigations.

Rule Engine

Automate standard security functions with a built-in Rule Engine and increase operational efficiency by minimizing the need for manual intervention.

Audio

Add audio to video with one/two-way audio support in the Smart, Web and Mobile clients.

XProtect Smart Wall

Gain immersive visualized situational awareness and efficient response coordination with support for Milestone's video wall solution.

User Access Management

Close monitoring of user access rights and efficient management of multi-user installations.

Dual Authentication

An additional level of security for granting user access to viewing interfaces.

Secure Export

Additional encryption, digital signing and re-export prevention for ensuring exported material is 100% authentic.

HTTPS

HTTPS communication for bidirectional encryption of communication between recording servers and the connected cameras and security devices.

Encryption

Dual-end certificate-based encryption between recording servers and all other system components.



Try for free:
[milestonesys.com](https://www.milestonesys.com)



XProtect® Corporate

Advanced Video Surveillance for 24/7 Mission Critical Operations

XProtect Corporate is IP video management software (VMS) designed for large-scale and high-security installations that require continuous access to video.

It ensures end-to-end protection of video integrity while maximizing hardware performance. Central management, built-in video wall

and support for failover recording servers make it ideal for mission-critical installations such as airports and cities.



Reliable

24/7 peace of mind

Designed by video surveillance experts to provide you with the industry's most reliable recording engine for boosting the performance of your hardware, with support for Edge Storage and failover servers for continuous and uninterrupted access to video.



Customizable

Our software, your solution

Expand the capabilities of your system to fit your organization's needs with dozens of verified leading solutions securely integrated using the open platform SDK architecture.



Scalable

Software built for today and tomorrow

Support for unrestricted number of servers, cameras and users provides efficient central management of systems in all sizes using Milestone's open platform.



User-friendly

Advanced system, simple use

Built-in video wall solution, centralized search platform and multi-layer maps assure visualized situational awareness, intuitive camera navigation and efficient collaboration when responding to incidents.



Secure

Security you can count on

Reinforce your system's resilience to cyber security threats without compromising people's privacy with a GDPR-ready certified VMS and an array of built-in security and privacy tools.



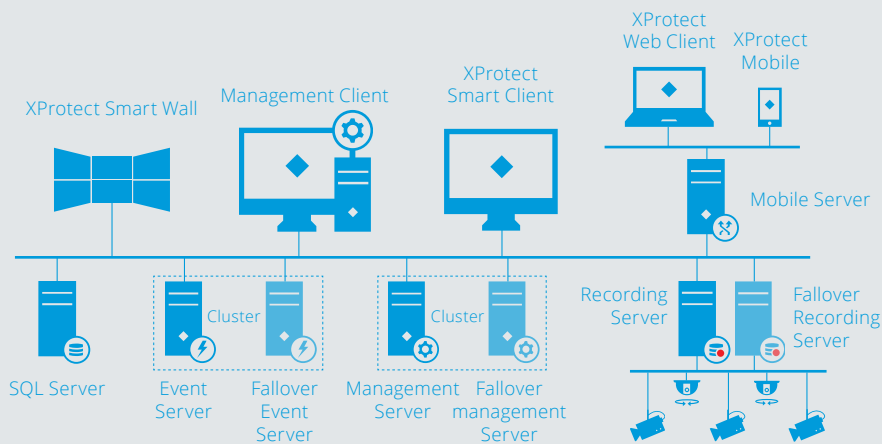
Turn the page
to see how!

High Availability System

Central and single-point administration of all system components and settings.

Failover servers act as a backup to primary recording and event servers and may be clustered for high-availability.

Integrated flexible and hardware independent video wall included for supreme situational awareness.



HIGHLIGHTED FEATURES

Hardware Acceleration

Support for NVIDIA® and Intel® hardware-accelerated video decoding for unparalleled performance, reduced CPU loads and lower system costs.

Edge Storage and Failover Servers

Support for Edge Storage recordings and Failover Servers for uninterrupted access to video, even during system failures and maintenance downtime.

Push Notifications

Proactive online system health monitoring for uninterrupted business operations and quick response when something in the system requires your attention.

MIP SDK

XProtect's open architecture and MIP SDK, provide unlimited expandability of your system.

Metadata

Augment your video by adding metadata, such as GPS coordinates, motion data, and facial recognition from smart and IoT devices.

Milestone Marketplace

Get direct access to dozens of verified products that push video beyond security.

H.265

Reduce the cost of video storage by using the latest H.265 compression technology.

Unrestricted

Support for an unrestricted number of servers, cameras and users for easy scalability and maximized flexibility.

Milestone Federated Architecture

Connect an unrestricted number of XProtect Corporate and XProtect Expert sites in a parent/child hierarchy for unlimited scalability.

Central Management

Centrally manage multiple sites with XProtect Corporate as a central hub using Milestone Interconnect as a cost-efficient solution for distributed operation.

XProtect Smart Wall

Built-in video wall solution for immersive visualized situational awareness and efficient response coordination.

Multi-Layer Maps

For quick navigation between buildings and floors and visual overview of installations in every size.

Alarm Manager

Built-in Alarm Manager for a consolidated overview of security and system alarms, immediate visual verification and efficient investigation.

Video Bookmarking

Bookmark video sequences of special interest while watching live or playback video for efficient video investigations.

Centralized Search

Search for video, motion, alarms, events and bookmarks all in one place and save your search templates for quick future investigations.

Rule Engine

Automate standard security functions with a built-in Rule Engine and increase operational efficiency by minimizing the need for manual intervention.

Audio

Add audio to video with one/two-way audio support in the Smart, Web and Mobile clients.

User Access Management

Close monitoring of user access rights and efficient management of multi-user installations.

Dual Authentication

An additional level of security for granting user access to viewing interfaces.

Secure Export

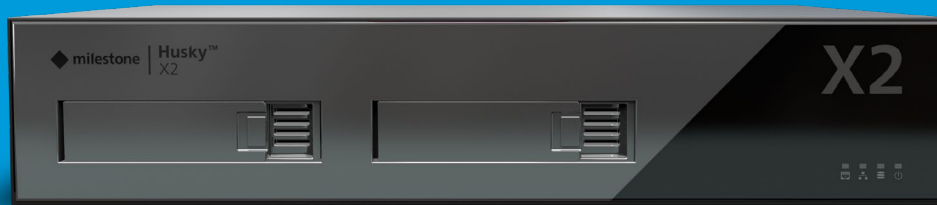
Additional encryption, digital signing and re-export prevention for ensuring exported material is 100% authentic.

Encryption

Dual-end certificate-based encryption between recording servers and all other system components.



Try for free:
[milestonesys.com](https://www.milestonesys.com)



Milestone Husky™ X2

All You Need to Start right – Plug-n-Play NVR Built for XProtect®

The Milestone Husky X2 is a plug-n-play network video recorder with a built-in PoE switch and input/output panel. It comes with pre-installed XProtect VMS, and is ready to perform.



Reliable

Offering the highest performance in the low- to mid-market segments, the Husky X2 is purpose-built for XProtect VMS. You can rely on its low total cost of ownership achieved by high efficiency and carefully designed NVR hardware.



Scalable

The Husky X2 comes with pre-installed XProtect VMS, allowing everyone to start right – supporting up to 8 cameras free of charge. Additional camera capacity and VMS functionality can be enabled by simply applying an XProtect VMS license.



Customizable

You have the freedom to choose storage up to 28TB¹, as well as XProtect version. The Husky X2 can be customized and deployed in existing or new installations – according to customer need.



User-friendly

Plug-n-play NVR – the Husky X2 built-in PoE switch and I/O panel ensure easy connection of cameras and alarm devices, eliminating the need for additional equipment.

Highlighted Features

Manageable Switch

The PoE switch provides PoE+ on all ports with 250W of total power, as well as important security functions, such as port MAC address locking.

High-Performance Hardware

Efficient Intel® i3 Skylake CPU and onboard GPU make the most of the XProtect VMS, while minimizing power consumption and heat emission.

High-Performance Recording Rate

Verified to deliver more than 550 Mbit/s continuous recording rate.

Integrated I/O Ports

Making it easy to connect detectors and alarms to the unit and to control external devices.

Auto Camera Detection

Automatic camera detection – making the installation phase less complex.



Try for free:
milestonesys.com

Technical Specifications

General Specifications

Max. number of cameras

133 cameras* continuous recording

Form factor

Standalone/ 2U rack-mount

Dimensions (WxDxH)

43 x 33 x 8.8 cm
16.9 x 13 x 3.5 inch

Shipping weight

Approx. 13.5 kg / 30 lbs

Hardware warranty

3 years

Computer System

CPU

Intel® Core™ i3-6100 3.7 GHz

CPU passmark

5475

GPU

Intel® HD Graphics 530

GPU video decoding

Yes, Smart Client and server-side VMD

RAM

16 GB

Operating system (OS)

Windows 10 IoT Enterprise Semi-Annual Channel

Credential and key encryption

No

Storage System

Max. recording rate

556 Mbit/s

Internal video storage (raw)

4/8/12/16/20/24/28¹ TB

Number of hot-swap HDD drives

2 bays, SATA
(Both disk bays shall be used)

RAID support

No

Archiving to external NAS/SAN

Yes

VMS/OS storage

256 GB mSATA SSD

Software recovery image

Yes

Power System

Power input

100~240V, 50/60 Hz

Max. power consumption

250W Non-PoE / 500W PoE+

Redundant power supply

No

Protection

OVP (over voltage), OCP (over current), OTP (over temp), SCP (short circuit)

Network System and Connections

Network interface

2 x 1 GbE RJ45
16 x 1 GbE PoE+ RJ45 (HX2P16 only)

Built-in I/O connector

4 x in + 4 x out

Remote management

No

Display connections

1 DVI + 1 HDMI

Maximum resolution

1920 x 1200 on both DVI and HDMI

USB

4 x USB 3.0

Environmental

Operating temperature

0° – 40° C / 32° – 104° F

Storage temperature

-20° – 70° C / -4° – 158° F

Humidity

10 – 90% relative humidity (non-condensing)

Regulatory

Regulatory compliance

CE (class A), WEEE, FCC (class A)², RCM, UL, Mexico (CoC)

* No hard system limit, maximum number of cameras only limited by available system resources and recording speed. Stated number validated with 720P @25 FPS, 2 Mbit/s with VMD
¹ 14TB HDD approved and can be purchased separately. Please refer to www.milestonesys.com/husky-support for a complete list of approved storage drives.

² This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received: including interference that may cause undesired operation.



Milestone Husky™ X8

Extreme Reliability – Premium NVR Built for XProtect®

The Milestone Husky X8 is a high-performance network video recorder for the high-end market, offering astonishing performance and extreme reliability. It is designed to ensure continuous operation through redundancy on component, storage and application level.



Reliable

The Husky X8 is a server-grade NVR with all critical components duplicated – offering redundancy at OS and disk level, as well as protecting video data through RAID 5/10. Add to that, application redundancy at the XProtect VMS level – and be sure your risk of interruption is reduced to a minimum.



Scalable

The Husky X8 can be installed both in existing and new installations – ensuring scalability when and where needed. Additional camera capacity and VMS functionality can be enabled by simply applying an XProtect VMS license.



Customizable

The Husky X8 supports 8 surveillance-class HDDs with up to 112TB¹ of total raw storage, extendable with external SAN storage connected via high-speed connections. Leveraging the XProtect video management software, the Husky X8 has a flexible configuration, supporting all XProtect product variants.



User-friendly

High performance must be easily accessible. Husky X8 uses hardware-accelerated video processing on the built-in GPU, while the XProtect VMS archive handling manages optimal use of internal and external storage and ensures that video is always online and instantly accessible for operators.

Highlighted Features

High-Performance Recording

Verified to deliver up to 1.8 Gbit/s recording rate. (720P @ 25 FPS, 4Mbit/s, with three Recording Server instances.)

Extreme Reliability

Hot-swappable dual power supply, RAID and redundancy on VMS level – to ensure no critical data is lost in case of power or HDD failure.

Extendable Storage

The unit's internal storage can easily be complemented with external storage environments, such as SANs, using high-speed 10 Gbit/s connections. It's Converged Network Adapter also enables direct connection of storage arrays via high-speed iSCSI or FCoE connections.

Unparalleled Performance

Powerful Intel® Xeon® E3 CPU and hardware accelerated video processing on the built-in Intel® Iris™ Pro GPU – combining performance with low power consumption and heat emission.



Try for free:
milestonesys.com

Technical Specifications

General Specifications

Max. number of cameras

780 cameras* continuous recording
300 cameras* with server-side VMD

Form factor

2U rack-mount
(rack rails not included)

Dimensions (WxDxH)

43 x 46.6 x 8.8 cm
17 x 18.4 x 3.5 inch

Shipping weight

Approx. 22.8 kg /50.3 lbs,
dependent on incl. HDD

Hardware warranty

3 years

Computer System

CPU

Intel® Xeon® E3-1515M V5 2.8 GHz

CPU passmark

10509

GPU

Intel® Iris™ Pro Graphics P580

GPU video decoding

Yes, Smart Client and server-side VMD

RAM

16 GB DDR4 (HX8R) / 32 GB DDR4 (HX8RC)

Operating system (OS)

Windows 10 IoT Enterprise Semi-Annual Channel

Credential and key encryption

Trusted platform module (TPM 2.0)

Storage System

Max. recording rate

1828 Mbit/s

Internal video storage (raw)

32/48/64/80/96/112¹ TB

Number of hot-swap HDD drives

8 bays, SATA 6 Gb/s
(All disk bays shall be used)

RAID controller & support

RAID 5/10
MegaRAID® SAS/SATA 9361-8i

Archiving to external NAS/SAN

Yes (HX8R) / Yes via iSCSI and FCoE (HX8RC)

VMS/OS storage

2 x 256 GB SSD M.2, RAID 1

Software recovery image

Yes

Power System

Power input

100~240V, 50/60 Hz

Max. power consumption

150W

Redundant power supply

Yes, hot-swap

Protection

OVP (over voltage), OCP (over current),
OTP (over temp), SCP (short circuit)

Network System and Connections

Network interface

2 x 1 GbE RJ45 2 x 10 GbE RJ45 incl. iSCSI and FCoE (HX8RC only)

Remote management

Yes, Intel® Active Management Technology (AMT)

Display connections

1 DVI + 2 HDMI
Supports 2 simultaneous displays

Maximum resolution

4K for HDMI , 1920 x 1200 for DVI

USB

2 (front) + 4 (rear) x USB 3.0

Environmental

Operating temperature

0° – 40° C / 32° – 104° F

Storage temperature

-20° – 70° C / -4° – 158° F

Humidity

10 – 90% relative humidity
(non-condensing)

Regulatory

Regulatory compliance

CE (class A), WEEE, FCC (class A)², RCM, UL, Mexico (CoC)

* No hard system limit, maximum number of cameras only limited by available system resources and recording speed. Stated number validated with 720P @25 FPS, 2 Mbit/s with VMD
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