

MILESIGHT VMS ENTERPRISE

• Better Inside, More in Sight •

V1.2



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Milesight VMS Enterprise is a professional and intelligent video management software for medium to large business projects. Together with Milesight cameras and third-party cameras, it can simplify your video surveillance and fulfill your demands and expectations with rich core functions including Live View, Playback, Recording Export, E-Map, Event Alarm, Smart Search, Al Analytics, and more.



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ABOUT US

About Milesight

Founded in 2011, Milesight is a fast-growing AloT solution provider committed to offering the value-added services and cutting-edge technologies. Based on video surveillance, Milesight expands its value proposition into IoT industry, featuring Internet of Things communication, and artificial intelligence technologies as its core.





Milesight VMS Enterprise System Overview



(2) Multi-user login at the same time

N+M Failover

System Requirement





ANPR Result Search •

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ONVIF Motion Detection

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POWERFUL MILESIGHT VMS ENTERPRISE

Simplify Video Management Enhance Your Security

4 Stand-out Uniques

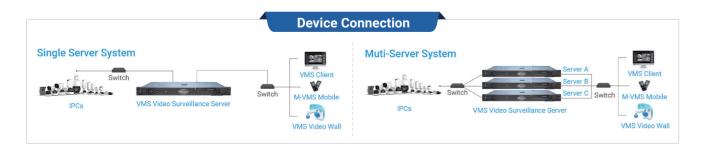




Power up Your VMS Performance



- Multi-channels Recording & Storage Support up to 128 video streams per server while providing cost-effective storage up to 12*20TB
- Quick & Simple Setup The latest VMS system pre-configured guarantees a hassle-free installation experience
- Stable & Robust Performance RAID-configured redundancy & N+M Failover realize a more robust video management system
- Hardware Form of Milesight VMS Enterprise Enrich the form of Milesight VMS Enterprise to bring the customers the greatest convenience



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When AI+ IoT Meet VMS

By leveraging IoT technology, which enables the system to interact between individuals and the environment, this ground-breaking innovation can improve the management through combination with advanced AI functions to identify and track objects in real-time.



Milesight VMS Enterprise AloT Solution



Nursing Home

Retail



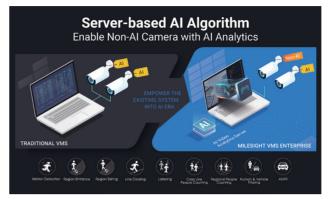
Petrol Station

Smart Building

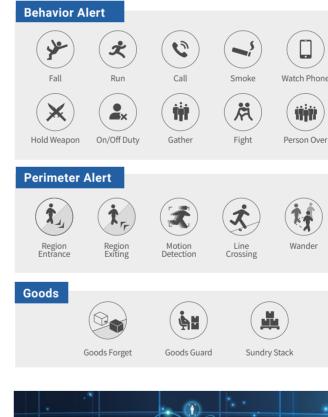
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Milesight VMS Enterprise Intelligent AI Analytics

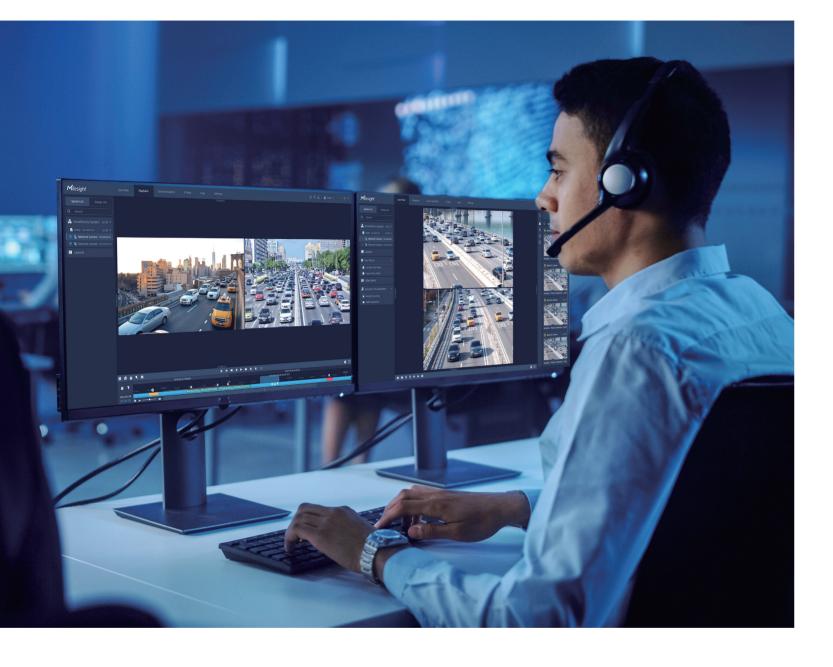
2 Server-based Powerful Functions



Abundant AI Features





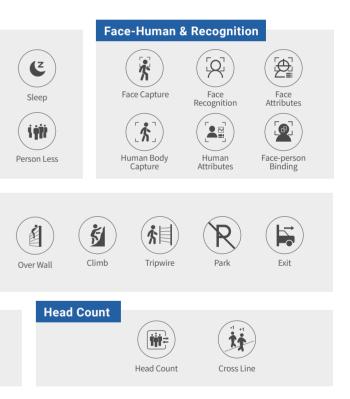


SMART ANALYTICS & AUTOMATED SECURITY

Transform and augment data into actionable information

Security automation is the use of AI technology that better understands monitoring data and takes relative actions with reduced human assistance in order to accelerate security processes, improve security efficiency and enhance security infrastructure.





Milesight VMS Enterprise New Arrival — AI BOX

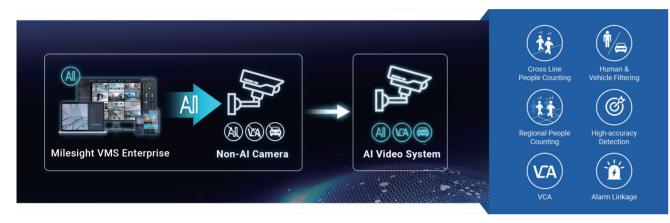
The combination of AI Box and VMS enables more algorithms to be used and enriches the application scenarios. Milesight AI Box is a cost-effective AI computing product, which boasts with powerful computing for video processing and machine learning.

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On-server AI Analytics

Milesight On-server AI Analytics

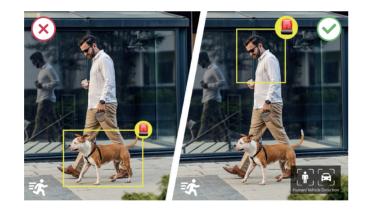
Milesight VMS Enterprise already has AI capabilities enabled, which means even a simple video fragment could be used to generate smart video analytics without any additional sensors or devices. The intelligent attributes of humans and vehicles can still be filtered and alarmed by the AI VMS system, regardless of whether the front-end IPC is AI or non-AI. Meanwhile it is easier to integrate AI intelligence into your current business project by using only software rather than reinstalling the front-end camera system.



Smarter Vehicle-Human VCA

Human and vehicle are the primary focus of a security system. The on-server AI system can accurately detect a wide range of VCA events, including Motion Detection, Vehicle or Human Detection, Region Entrance, Region Exiting, Line Crossing and Loitering, which helps to reduce false alarms and increase the system's adaptability to various applications.

Furthermore, with the AI analytics enabled, the tracking box and detected area will be displayed in the live view interface, which is more intuitive for event monitoring.





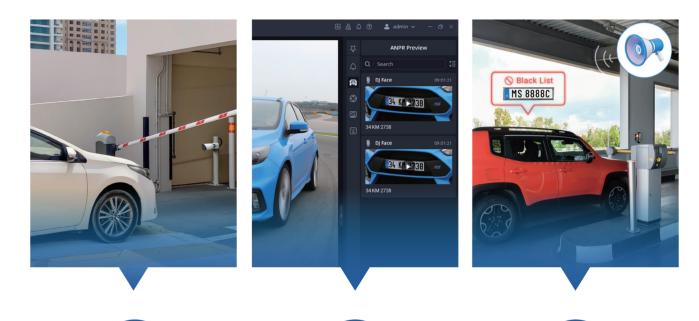
People Counting & Occupancy Solution

With the on-server intelligence, it is easy and quick to calculate the number of people in the specific area or over the line, such as the Queuing Area and the Visitor Occupancy. It's also simple to integrate all kinds of third-party cameras to create an all-in-control solution that includes an analytics data report.

Server-based ANPR Solution

Access Control

Milesight VMS Enterprise could assist public parking operators and private car-park management in improving the efficiency of enforcing security measures and improving customer service through prompt responses.





Black/White List Detection

When a match is found with the predefined Black/White List, perform the action as settings. For example, if the recognized number is on the black list, notify the operator and start recording; if the recognized number is on the white list, open the barrier.

ANPR Preview

When a plate is recognized, the notification will be pushed and listed in the right panel of the Liveview Interface-ANPR Preview. This panel allows users to filter the video fragments by adding keywords, such as the license plate number, to easily find those that match their search criteria.





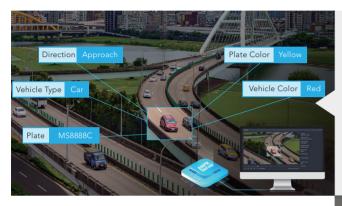
Notification

When a pre-set event is triggered, it is possible to play the recorded audio to notify the drivers who violate the parking rules, are on a black list, or are loitering in the neighborhood.

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Traffic Flow Monitoring

Making ITS in a digitized way will greatly improve the process of smart traffic and smart city. Milesight VMS Enterprise could deliver real-time traffic and incident data when a vehicle drives over-speed or drives in the wrong direction, which is essential for further investigation.



Server-based ANPR

Enabled with ANPR algorithm to achieve server-based ANPR solutions regardless of whether the camera is an LPR one or not, making the recognition attributes of license plate and vehicle much easier and more efficient.

Integrated Radar+AI+LPR

Radar+AI+LPR are integrated into the VMS Enterprise with Milesight AI Radar LPR camera, converting traffic data into actionable insights such as vehicle speed, direction, count, and attribute.





ANPR Result Search

For the tracking of violation, users could fast locate the traffic violator and get detail information via ANPR Result Search function in seconds, including vehicle attribute, license plate number, plate color, plate type, capture time, live screenshot and so on.

3D Radar Localization

The real-time and comprehensive monitor is supplemented by a dynamic visualization of traffic detection in the Live View interface, including data on vehicle counts, traffic congestion, traffic incidents and infractions.





SMART FORENSIC EVIDENCE Narrow down investigations and quick find relevant information

With so many cameras to monitor, operators are often overloaded with the massive video and data, Milesight VMS Enterprise supports local and NAS storage, and the smart forensic evidence ensures that the operator is always on the right track when searching for the corresponding clips, greatly facilitating investigations and speeding up case resolution.

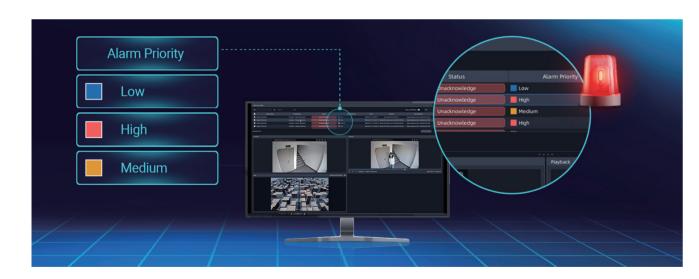
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All ~ ☑ Vehicle 🗹 Car ⊠ Bus ⊠ Truck ☑ Person ☑ Other Object



Smart Video Synopsis achieves the gathering of objects (humans, vehicles, and other moving objects) that appear at different time points into one picture or a short time segment. Filtering objects by their moving paths and ROI allows you to quickly locate the original playback video and find more evidence.





In large projects, hundreds of alarms can occur in a single day, making it difficult to identify the most critical cases. To improve the efficiency of the monitoring system, customizing the priority of alarms is recommended. Furthermore, it can enhance the speed of discovering and recording events through event category and event search.

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In the area of interest, users can keep an eye out for relative movement. The timeline will highlight the search result in red when draging the detect area on the screen to process large numbers of issues more effectively. For instance, the smart search will promptly identify anyone who enters the designated area and effectively address any difficulties with items left behind and theft.

Evidence Lock & Bookmark

User could directly drag and lock/bookmark the signification videos on the timeline, allowing easy export and search of multiple video recordings.

Event Filter

Users could filter the event by entering keywords on the notification panel. Filtering events by type makes it easier to quickly view all of the relevant events, get the recording, and show the thumbnails as necessary.

Visual Timeline

The event will be automatically tagged in various colors once it is triggered. The recording preview procedure becomes more natural and user-friendly by using colors to distinguish different event categories and thumbnail displays. Additionally, the color of different events is customizable for an intuitive and straightforward experience.

Split Playback Divide the chosen time interval into several video segments of the specified period as needed, so that users can watch videos from different time periods at the same time.











REAL-TIME INCIDENT RESPONSE

Extend video operations to the field and make informed decisions

The seamless and comprehensive monitoring for hundreds or even thousands of cameras in an easy-to-use platform allows users to break the location limit, respond quickly, and handle the situation with the real-time alert and intuitive E-map.

Multiple Ways of Notification



E-map

Manage all your cameras and take command of all locations, by displaying all security devices and alarms in a dynamic map. • If there is an alarm triggered, the notification will show on the E-map to draw the attention of the users.

• Support locating the specific position quickly by the Map Preset.

🖽 Video Wall

Achieve the centralized management of multiple video wall servers: • A simple and powerful way to configure and manage monitors remotely. • Support multi-screen and split-screen for centralized

• Tour & Tour Plan

User could select different cameras/layouts in a tour plan, and it will automatically switch in the Live View interface, which is convenient to monitor different sites and get the most interested information. Milesight

FLEXIBLE EVIDENCE MANAGEMENT

Enable operators to export recordings according to different needs

When there are many recordings in the system, archive management can streamline the process of reviewing and providing relative evidence. The effectiveness of video clip security and investigation follow-up is considerably increased by flexible and multiple export ways.

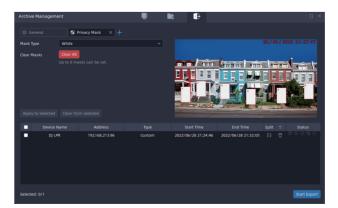
Unique EXE File

The EXE File is a lightweight media player that makes it easier to evaluate exported recordings and increases file security by requiring a password before opening any files.



Privacy Masking

Up to 8 masks can be configured to cover specific areas, giving the surveillance area a great level of privacy.



Multiple OSD Formats

Multiple OSD formats, such as text OSD, image OSD, and timestamp, are supported for exporting the recording, and each OSD's color and location can be customized.



File Transcoding

Timelapse and reduce data size are available to meet the different surveillance needs.

Archive Manageme	ent	V 16.
		× +
Transcoding Type	Timelapse	Y
Initial Length	7m 19s	
Speed Up to	29X	
Exported Length	15	Timelapse
	15s	Reduce Data Size
		29X

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RELIABLE AND SCALABLE SYSTEM

Ensure a robust security system for all-time monitoring

Despite its vast functionality, Milesight VMS Enterprise is also simple to install and provides a smooth and secure user experience while reducing hardware load.

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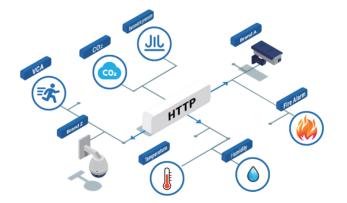
HIGH COMPATIBILITY

Open platform for fully integrated surveillance solution

Integrating all types of cameras into a single system is critical for developing a unified camera management system. Milesight VMS Enterprise is compatible with Milesight and third-party cameras to monitor all entities and sites from a single interface.

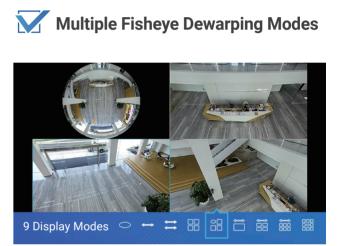
Compatible with Milesight and 3rd Party Cameras







Support Trigger Motion Detection from 3rd Party Cameras via ONVIF



Support Trigger Alarms from 3rd Party Cameras via HTTP

HTTP is supported to integrate with any 3rd party system. After creating event rules on the system, once Milesight VMS Enterprise receives an event via HTTP, it will trigger actions such as recording, controlling camera output, calling PTZ preset, showing notification, playing audio, sending email, pushing alarm to mobile app, and even sending another HTTP request.



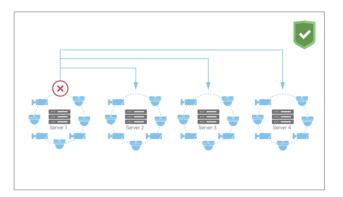
FAULT TOLERANCE & SECURITY Protect your data and system without concern

Milesight VMS Enterprise delivers dependable performance together with extensive security measures, and raises the bar on security with various privileges and multilayered secure encryption processes.

Fault Tolerance

N+M Failover:

Multiple servers are managed by the surveillance system, and they all share the same data. When one of the servers malfunctions, the second server assumes control and keeps recording, ensuring uninterrupted recording and boosting risk resistance.



Permissions and Privileges for Higher Data Security



STABLE PERFORMANCE

System-friendly for 24/7 constant running

Every second counts when it comes to security surveillance. Milesight VMS Enterprise provides an all-day surveillance solution and is always available if you require recordings or images.



The client adapts itself and switches between primary and secondary streams depending on its decoding performance, including memory, CPU and GPU usage, ensuring fluent live streaming.





Intuitive Dashboard

server health can be viewed, along with storage information, camera connection status, and recording status.

Decoding with Multiple **Graphics Cards**

Decoding performance and efficiency are significantly enhanced by increasing both the quantity and quality of decoding while simultaneously easing the load on the CPU.



Balance Distributed System Architecture:

Increase server performance and reduce server cost with the balanced distribution of the AI video analytics from front-end Al devices and on-server Al intelligence.

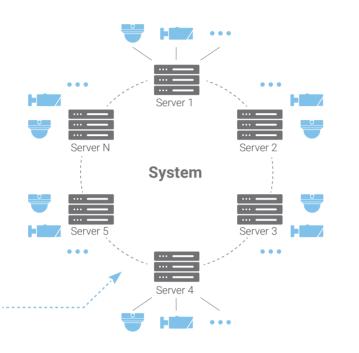


REMOTE ACCESS

Advanced C/S Architecture

The system architecture allows for remote monitoring and multi-user login at the same time. Each computer can be regarded as a server, and each server can be connected to numbers of cameras. Users can access shared data and streaming within the system, which is appropriate for monitoring large projects in multiple places.





M-VMS Mobile



GETITON Google Play Download on the App Store

♣

Great Flexibility

- PTZ
- Two-way audio
- Client trigger alarm

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Playback

- Adjustable speed of playback
- 4-CH synchronous or asynchronous playback
- Playback by events & split playback

Receive Event Messages from Milesight VMS Enterprise

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ABOUT LICENSE

License Type

- Channel License: Restrict the number of camera channels that can be added. (Regardless of the manufacturer)
- · Video Wall License: Restrict the number of Video Wall monitors that can be active at the same time.
- (3rd-party devices only; Milesight devices are not required.)

License Key Activation

Online Activation

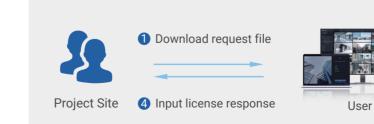
Get the key from your Milesight/Distributor and enter the keycode on VMS, then start your journey successfully.

Image: Constraint of the state of the s	Missight	Der Nungehert Inn ha	Sartaden Ing op Map	
 methods methods	Derita Hanagement Derita Facilipantica			
	Saven Herrige Sover Seeilage Sover Seelage Wester Herrige Wester Herrige Sover Seelage Sover Seelage Sover Seelage		were were	

Offline Activation (For the Project without Internet)

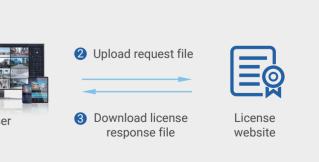
① Download request file on your VMS.

② Upload the VMS request file on the activation website where the computer is connected with Internet. ③ Get the license response file from activation website. ④ Input the license response file on your VMS. ⑤ Success!



On-server AI analytics: Restrict the number of channels that can be deployed with server-side AI intelligence.

Activate New License $\qquad \qquad \qquad$	
License to	
lumy 192.168.69.36 ~	
Activation Code	
Online Manual	



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Software		Milesight VMS Enterprise
Sollwdre		Milesight VMS Enterprise
Architecture		Client/Server architecture
		Client
Hardware Requirement	CPU: Intel Core i5 @2.9GHz or above Memory: 4GB or above HDD: HDD/SSD GPU: Recommend, discrete graphics card will be better Graphic Memory: 2GB or more Display Resolution: 1280 x 720 or above	
OS		Windows 7/8/10/11
	Simultaneously Playing	Up to 64-CH, self-adaptive layout
	Multi-monitor	Live Screen, Alarm Screen, Full Screen, E-map, Playback
	Tour	Support (Camera Tour, Layout Tour)
		Up to 100 Video Walls per System
		Display up to 64 IP Channels per screen
		Custom Screen Combinations & Split
Live View	Video Walls	PTZ and Digital Zooming Operations
		Remote Desktop Sharing
		Remote Control & Monitoring
	Dynamic Visualization	People Counting Live View, Traffic Detection Live View
	Function	Snapshot, Record, Audio, Talk, Digital Zoom, Fisheye Dewarping PTZ Control, Stream Switching, Instant Playback, Display of Tracking Box and Area, Notification, ANPR Preview
	Playback Channel	Up to 64-CH synchronous or asynchronous playback
	Recording Type	Schedule/Event
	Playback Type	Schedule/Event/Tag
Playback and Recording	Export Type	.mp4/.avi/.mkv/.asf/.exe (The .exe file has a built-in player.)
Management	Export Overlays	Text/Timestamp/Image/Privacy Mask/Transcoding
	Function	Snapshot, Audio, Digital Zoom, 1/32x~32x Slower/Faster Play Speed Rewind Play, Fisheye Dewarping, Visual Timeline, Split Playback, Lock, Tag, Smart Search
	Device Management	Channel: Support up to 2000 channels per system/128 channels per server (The numbers given are recommended maximum.)
		Protocol: MSSP/ONVIF/RTSP/P2P/Milesight DDNS
Settings	Video/Audio Compression	Video Compression: H.265/H.264
		Audio Compression: G.711 U-Law/G.711 A-Law/AAC LC/G.722/G.72

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	Event	A
Settings		Sho
	System&Servers	D Intu
		Syste
	ANPR	Tr
	VMS-end People Counting	
Smart Analytics	VMS-end Video Analytics	
	Video Analytics Server	
E-Map	Multi-layer map, Multiple attrib	ute con
	-	Server
		CPU: I
Hardware Requirement		
Hardware Requirement	Windows 7/	
	Windows 7/	
OS	Windows 7/ Support up to 3	8/10/11
OS Online Clients Servers		8/10/11 25 serve
OS Online Clients Servers	Support up to s	8/10/11 25 serve
OS Online Clients Servers	Support up to s	8/10/11 25 serve 1, and th
OS Online Clients Servers Performance i	Support up to s	8/10/11 25 serve 7, and th -VMS Ma
OS Online Clients Servers Performance i OS	Support up to s highly dependent on PC capacity M Layout, Group, PTZ operation 0.5X/	8/10/11 25 serve 7, and th -VMS Ma
OS Online Clients Servers Performance i OS Live View	Support up to s highly dependent on PC capacity M Layout, Group, PTZ operation 0.5X/ 4-0	8/10/11 25 serve 7, and th -VMS Ma as includ 1X/2X/4
OS Online Clients Servers Performance i OS Live View Playback	Support up to s highly dependent on PC capacity M Layout, Group, PTZ operation 0.5X/ 4-0	8/10/11 25 serve 7, and th -VMS Ma as includ 1X/2X/4 CH Sync

arm Type: Motion Detection, Audio Alarm, External Input Alarm, VCA Events, Smart Analytics Events, Connection Issue, System Events, Server Events, HTTP Event, Client Trigger, etc.

Alarm Action: Emergency Recording, Control Camera Output, PTZ Movement, Show Notification, Show Text Overlay, Email, Pop up Video, Play Sound, Send HTTP Request, how on Alarm Screen&Full Screen, Push Alarm to Mobile APP, etc.

N+M Failover, Online Update, License Activation, Decoding with Multiple Graphic Cards, Local and NAS storage, ituitive Dashboard, Customizable User Permissions, Multiple Hotkey

em Languages: English, Chinese, Traditional Chinese, Japanese, Russian, German, French, Polish, Turkish, Italian and Thai.

ANPR Group Management, ANPR Settings, ANPR Search, Traffic Report, Radar Data Integration, Dynamic Visualization

Cross Line People Counting, Regional People Counting, People Counting Group, People Counting Report, Dynamic Visualization

> Motion Detection, Region Entrance, Region Exiting, Line Crossing, Loitering

Graphic: NVIDIA graphic card (CUDA compute capability 7.5 or higher is recommended) OS: 64-bit Operating System

nfiguration of elements, Shared map, Event alarm flashing prompt

er

Intel Core i3 @2.3GHz or above Memory: 8GB or above HDD: HDD/SSD NIC: 1GB or above

1, Windows Server 2008/2012/2016/2019/2022

100

vers per system, 25 is a recommended maximum

the recommended configuration is just for reference.

/lobile

iOS: iOS 11 or above. ndroid: Android 9.0 or above.

iding preset, patrol and pattern, Two-Way Audio, Client Trigger

/4X/8X/16X speed adjustable playback achronous or Asynchronous Playback 4-CH Split Playback

t Messages from Milesight VMS Enterprise

File Management

IP Address/P2P