

Milesight

Milesight VMS Enterprise

Advanced C/S Architecture · On-server AI Analytics ·
Intuitive Live View · Efficient Playback · Scalable Video Wall

OS: Windows 11/10/8/7
Windows Server 2022/2019/2016/2012/2008



INTRODUCTION

Milesight VMS Enterprise (ONVIF compliant) is a video management software designed for medium to large projects which can manage lots of network cameras in different locations and featured with Client/Server architecture. It fulfills your demands and expectations, with rich core functions including live view, record, E-map, event alarm and smart analytics, etc.

DATASHEET

KEY FEATURES

- ▶ **System**
 - Support creating a VMS system by servers in different LANs.
 - Support multiple system languages.
 - Support multi-layer map.
 - Offer a user-friendly GUI for easy operation.
- ▶ **Live View**
 - Support multi-monitor and 64 live view channels per monitor with main or sub streams optional.
 - Support Fisheye Dewarping & PTZ control.
 - Support Camera Tour and Layout Tour.
- ▶ **Playback & Recording**
 - Support up to 64 channels synchronous or asynchronous playback.
 - Support reverse and times the speed of playback.
 - Support quick location & playback by tags, events.
 - Support Snapshot, Audio, and Digital Zoom in Playback.
 - Support lock of important Video.
 - Support different recording types, including Schedule and Event.
 - Support local and NAS storage.
- ▶ **Configuration**
 - Support device management and configuration, including Snapshot, Record, Audio, Talk, Digital Zoom, Fisheye Dewarping, PTZ Control, Stream Switching, Instant Playback, etc.
 - Support real-time display of system and server running status, and dynamic display of resource information.
 - Support custom configuration of system, server and client.
- ▶ **Alarm**
 - Support event trigger like Motion Detection, VCA, Audio Alarm, External Input Alarm, Video Loss, Smart Analytics, etc.
 - Support event action like Recording, Control Camera Output, Call Camera PTZ Preset, Play Sound, Send Email, Push Alarm to M-VMS Mobile App, etc.
- ▶ **Security**
 - Support password protection.
 - Support encrypted video files.
 - Support both SSL and TLS encryption methods for emails.

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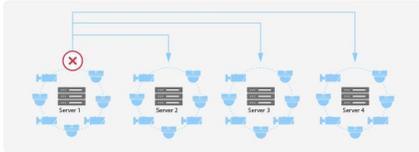
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Reliable and Scalable System

Developed in advanced Client/Server architecture, Milesight VMS Enterprise is a powerful video management software with reliable and scalable system.

N+M Failover ensures that the data can be well guaranteed. If some servers fail, the standby servers will take over the cameras immediately.



N+M Failover

VMS supports up to 2000-CH per system/
25 servers per system/128-CH per server.



Advanced C/S Architecture

M-VMS Mobile is designed from the ground up to enrich the using experience, both IOS and Android users can freely enjoy it.

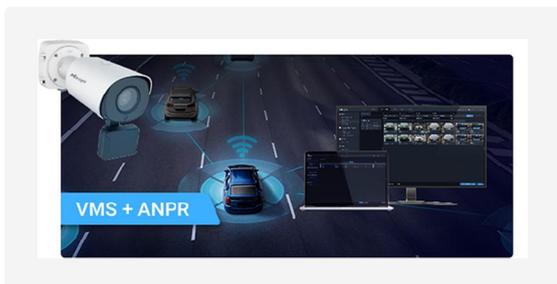


M-VMS Mobile

Smart Analytics

Milesight VMS Enterprise already has AI capabilities enabled, which means even a simple recorded video fragment could be used to generate smart video analytics without any additional sensors or devices regardless of whether the front-end camera is AI or non-AI.

- Making ITS in a digitized way will greatly improve the process of smart traffic and smart city. The speed, direction and other data are being analyzed in the VMS server to reduce congestion and make the road smoother.
- With the fully integrated AI-based analytics, Milesight VMS People Counting Solution gives intuitive data and saves manpower.
- With the 5 * AI Video Analytics as standard, the on-server Video Analytics contains various smart solutions, which accelerate the path to achieve more professional and intelligent AI solutions.



Video Wall

The remote configuration and operation control make the Video Wall as a simple but powerful way to manage monitors remotely. It helps the users get the intuitive images presented by multiple cameras at the same time. The custom screen combinations & split also improve the efficiency of work for the users.



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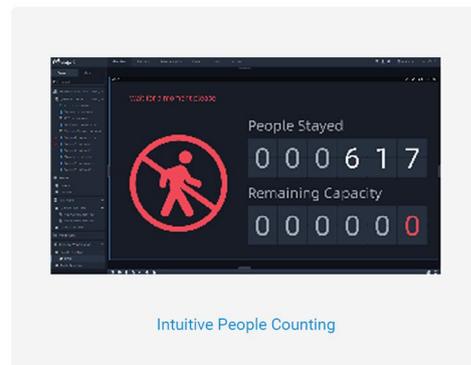
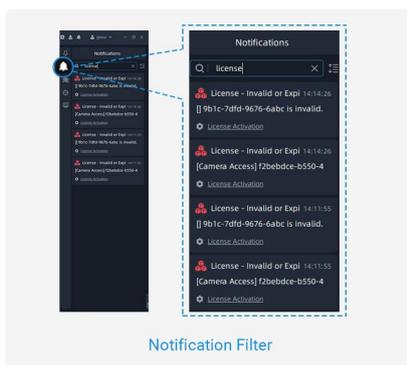
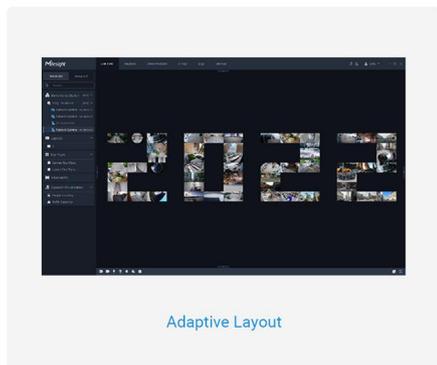
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Intuitive Live View

The simple but powerful preview interface gives users an intuitive visual experience, helping them to better access the appropriate data and image information.

- The ultimate interface flexibility of VMS Enterprise can realize adaptive layout of the preview interface according to the number of channels you choose, making full use of the screen space.
- The Notification panel enables the users to filter the desired notifications by keywords, allowing them to receive messages in real time and achieve message effectiveness.
- Visualization of the preview screen is enhanced by the acquisition of visual data for People Counting and Traffic Detection.



Functional Playback

The functional Playback helps the users quickly get the desired videos and evidence footage with various playback modes.

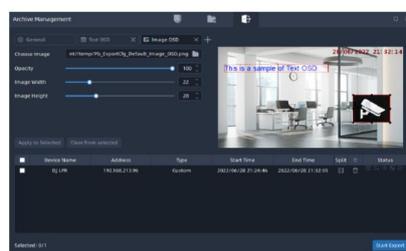
- Smart Search enables the users to keep an eye out for relative movement in the specific area. It makes the playback target clear and saves time.
- Split Playback is endowed with an effective playback feature, as the users can divide the chosen time interval into several video segments by time period or the number of channels.
- With the visual timeline, the recording becomes more user-friendly by using colors to distinguish different event categories.



Flexible Export

For the best offline playback experience, the flexible Export streamline the process of reviewing.

- Among the multiple export ways, the unique EXE format brings security, functionality and compatibility as it includes an executable player with the video and audio data, without a need to install additional video players.
- Multiple kinds of customized overlays give the users abundant playback experience, which include text, timestamps and image OSD.
- File transcoding guarantees fluid video experience especially for remote playback even in a poor network connection by reducing the stream data via lowering resolution, bit rate, or frame rate.



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Fault Tolerance&Security

Milesight VMS Enterprise levels up the security with different privileges and multilayered secure encryption mechanisms, and features reliable performance with comprehensive protections.

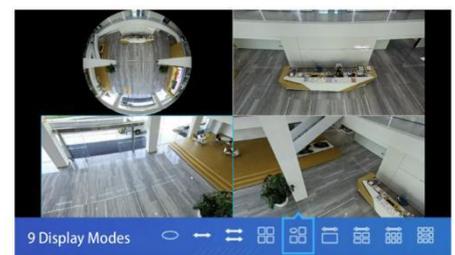
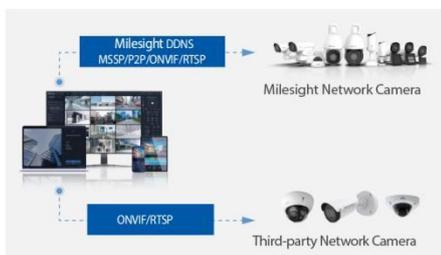
- A highly developed user/role management function allows detailed user-dependent definition of rights and responsibilities.
- The Balance Distributed System Architecture increases server performance and reduces server cost, better guaranteeing the flexible running of the system.



High Compatibility

As Milesight VMS Enterprise is tailored for mid-to-large installations, then the high compatibility ensures it can supports thousands of cameras in a system regardless of their brands and locations.

- The high compatibility of VMS allows the third-party cameras access to the system through ONVIF/RTSP. For the Milesight cameras, there are multiple ways to be used in the connection, such as Milesight DDNS/P2P/ONVIF and RTSP.
- VMS supports trigger alarms from third-party camers via HTTP, including recording, PTZ preset, showing notification and so on.
- Milesight VMS Enterprise supports two ways of dewarping, bringing users great flexibility during operation. On-board dewarping can be easily integrated with third-party VMS. And the Client-side dewarping supports flexible viewing modes in Live View and Playback.



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Software	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		
Live View	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)	
	Video Walls	Up to 100 Video Walls per System	
		Display up to 64 IP Channels per screen	
		Custom Screen Combinations & Split	
		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 and Recording Management	Playback Channel	Up to 64-CH synchronous or asynchronous playback	
	Recording Type	Schedule/Event	
	Playback Type	Schedule/Event/Tag	
	Export Type	.mp4/.avi/.mkv/.asf/.exe (The .exe file has a built-in player.)	
	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	
Settings	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	
	Video/Audio Compression	Video Compression: H.265/H.264 Audio Compression: G.711 U-Law/G.711 A-Law/AAC LC/G.722/G.726 Video Resolution: 12MP/9MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF	

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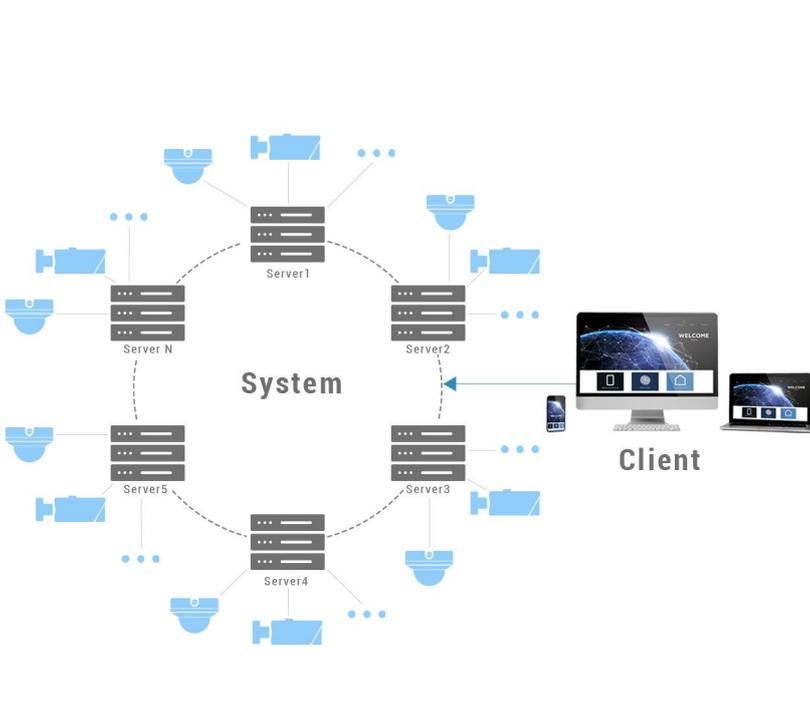
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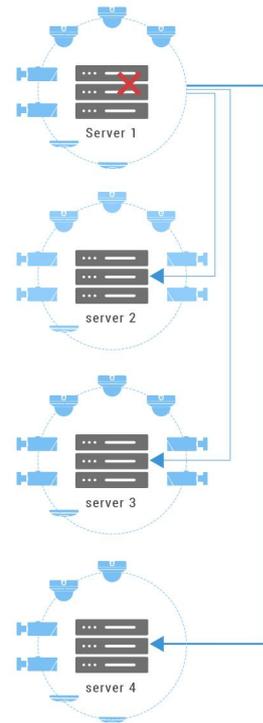
Settings	Event	Alarm Type: Motion Detection, Audio Alarm, External Input Alarm, VCA Events, Smart Analytics Events, Connection Issue, System Events, Server Events, HTTP Event, Client Trigger, etc. Alarm Action: Emergency Recording, Control Camera Output, PTZ Movement, Show Notification, Show Text Overlay, Email, Pop up Video, Play Sound, Send HTTP Request, Show on Alarm Screen&Full Screen, Push Alarm to Mobile APP, etc.
	System&Servers	N+M Failover, Online Update, License Activation, Decoding with Multiple Graphic Cards, Local and NAS storage, Intuitive Dashboard, Customizable User Permissions, Multiple Hotkey System Languages: English, Chinese, Traditional Chinese, Japanese, Russian, German, French, Polish and Turkish
Smart Analytics	ANPR	ANPR Group Management, ANPR Settings, ANPR Search, Traffic Report, Radar Data Integration, Dynamic Visualization
	VMS-end People Counting	Cross Line People Counting, Regional People Counting, People Counting Group, People Counting Report, Dynamic Visualization
	VMS-end Video Analytics	Motion Detection, Region Entrance, Region Exiting, Line Crossing, Loitering
	Video Analytics Server	Graphic: NVIDIA graphic card (CUDA compute capability 7.5 or higher is recommended) OS: 64-bit Operating System
E-Map	Multi-layer map, Multiple attribute configuration of elements, Shared map, Event alarm flashing prompt	
Server		
Hardware Requirement	CPU: Intel Core i3 @2.3GHz or above Memory: 8GB or above HDD: HDD/SSD NIC: 1GB or above	
OS	Windows 7/8/10/11, Windows Server 2022/2008/2012/2016/2019	
Online Clients	100	
Servers	Support up to 25 servers per system, 25 is a recommended maximum	
Performance is highly dependent on PC capacity, and the recommended configuration is just for reference.		
M-VMS Mobile		
OS	iOS: iOS 11 or above. Android: Android 9.0 or above.	
Live View	Layout, Group, PTZ operations including preset, patrol and pattern, Two-Way Audio, Client Trigger	
Playback	0.5X/1X/2X/4X/8X/16X speed adjustable playback 4-CH Synchronous or Asynchronous Playback 4-CH Split Playback	
Alarm	Receive Event Messages from Milesight VMS Enterprise	
Manage	File Management	
Connection	IP Address/P2P	

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One system manages several servers. Every server shares the same data file.



Taken over by multiple servers simultaneously. Cameras will be allocated to servers automatically to do load balancing.

Any functioning server with failover function on and valid licenses will take over the cameras of the failed server. The cameras with record on will keep recording.

Key Functions

Live View

E-Map

Playback

Logs

Smart Analytics

Settings

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