

eVMS-BLUE Software



Overview

eVMS-Blue is a versatile Video Management & Command Control Center Software for NDAA compliant Blue Line series Cameras & Recorders. It provides several functionalities, including real-time live view, remote search, and playback, file backup, alarm receiving, intelligent recognition, etc. for connected devices, and meets the needs of large, medium, and small-sized projects. The eVMS-BLUE software is widely applied to surveillance projects in financial, public security, telecommunications, transport, electricity, education, etc.

Main Features

General

- Applicable to local and wide area networks
- Remote configuration for added devices
- Management of user permissions
- Resetting of password via server's UID
- Support for PC keyboard shortcuts to conveniently access commonly used actions

Client

- Hardware decoding support for live view and playback

Network

- Online user verification
- NTP time synchronization protocol
- Search active online devices
- Device addition via IP, domain name, UUID of p2p; batch importing of devices
- Two-way audio function

Live View

- Support for H.264 and H.265 video encoding formats
- Viewing of stream info
- Multi-window or Multi-screen live view or playback
- 1~64 window division configuration
- Maximum support for a 64-window standard-screen division
- Live view in Fisheye mode for fisheye cameras
- Live view in a panoramic mode for 32M panoramic cameras

PTZ Control

- Remote PTZ control, preset, patrol
- 3D positioning, auxiliary focus, and wiper function
- Support for PTZ control of one-touch patrol and one-touch park Alarm Management

Alarm Management

- Alarm configuration for motion event, intelligent analysis event
- Search and export linked alarm log pictures
- Possibility to view the latest priority alarm when viewing alarm information in the alarm pop-up window
- Support configuration alarm sounds for speech or buzzer

Recording

- Local manual recording support

Playback

- Remote playback
- Normal, event playback
- Maximum of 16-ch synchronous playback supported
- Frame extracting support for high-speed playback
- Picture grid
- Playback in Fisheye mode for fisheye cameras

Backup

- Downloading of video files to PC
- Batch backup by period time, channels

E-map

- Custom map
- Multilevel
- Online GIS-map
- Offline GIS-map
- Radar PTZ Linkage, radar zoom linkage

TV Wall

- Decoder device management
- TV wall layout configure
- TV wall windows configure
- TV wall cruise configure

Event Linkage

- Event linkage strategy configure
- Triggered by timing or alarm event
- Linkage E-mail, PTZ, IO output

Face Recognition

- White library, black library, a temporary library for Strangers
- Face trigger local alarm, remote device output alarm, e-mail, Face notice APP
- Face attendance

Body-temperature Monitor

- Real-time temperature screening
- Historical body-temperature search
- Body-temperature statistics
- Over-temperature alarm, e-mail, APP subscribe
- Mask detection

Thermal Imaging

- Capture strategy configure
- Snapshot data search
- Area temperature data search
- Historical temperature at curve graph view

License Plate Recognition

- White library, black library
- LPR trigger local alarm, remote device output alarm, e-mail, LPR notice APP

Video Data Structure

- Pedestrian age, sex, whether to ride or not
- Vehicle type, brand, color, and license plate

Statistics

- Device alarm, device online, traffic flow statistics

Typical Application

Mini



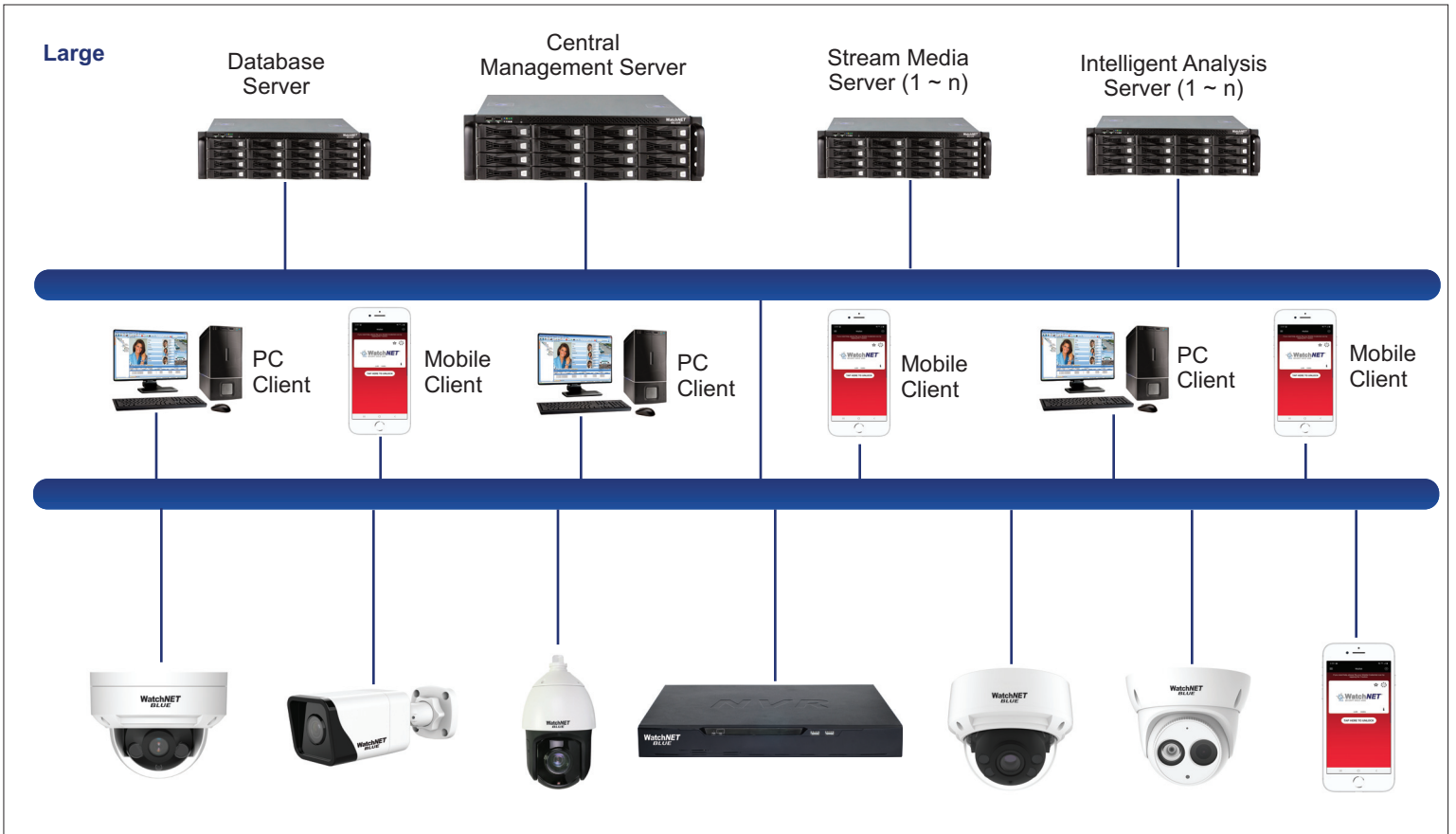
Central Management Server
Stream Media Server
Intelligent Analysis Server
Client



Middle



Large



System Requirements

System Requirement Overview

Name	PC Client	Central Management Server	Media Distribution Server	Intelligent Analysis Server (CPU environment)	Intelligent Analysis Server (GPU environment)
CPU	Intel® Core™ i5-7500 or better	Intel® Core™ i5-7500 or better	Intel® Core™ i5-7500 or better	Intel® Core™ i7 or better	Intel® Core™ i7 or better
RAM	8 GB or more	8 GB or more	8 GB or more	8 GB or more	8 GB or more
Network Card	Gigabit/s				
HDD	50 GB or Above	50 GB or Above	50 GB or Above	50 GB or Above	50 GB or Above
OS	Microsoft® Windows® 7 Pro (64 bit) Microsoft® Windows® 10 Pro (64 bit) Microsoft® Windows® 10 Enterprise (64 bit) Microsoft® Windows® Server 2012 Microsoft® Windows® Server 2016				
Software	DirectX 11 or above	-	-	-	-
Display Resolution	1600 × 960 and above, default 1920 x 1080	-	-	-	-
Video Card	-	-	-	-	-
GPU	-	-	-	-	NVIDIA GTX 1050 or better

 CAUTION OS does not support Microsoft Windows 32 bit anymore except PC client.

Central Management Server

Access Capability	
Maximum number of logins	Maximum number of access channels
2000	6000

Media Distribution Server

NIC parameters			
Channel	Camera Bitrate	Input Bitrate	Input Bitrate
200	4 Mbps	800 Mbps	800 Mbps
400	2 Mbps	800 Mbps	800 Mbps
500	1.5 Mbps	800 Mbps	800 Mbps

Intelligent Analysis Server Reference

Type	Model	ROM	Channel of face detection
CPU	Intel(R) Core i5-7500	8G	1-3
CPU	Intel(R) Core i7-8700	8G	2-8
CPU	Intel(R) Xeon(R) CPU E5-2630 v4	16G	4-10
Face-box	Intel(R) Core i5-8500 Face-box * 4	8G	6-12

NOTE

In the same configuration, the fewer the access cameras, the higher quality of real-time video, the denser the flow of people (human faces), the worse quality of real-time video, and can be adjusted according to actual needs. This is only a reference, please refer to actual configure.

Maximum Number of Cameras Viewed per Client (Software Decoding)

Encoding Format	CPU	GPU	RAM	Resolution	Bit Rate (Mbps)	Frame Rate (fps)	Maximum Number of Cameras Viewed Simultaneously
H.264	Intel(R) Core i5-8500	Intel HD Graphics	8 GB	1080P	4.5	25	12
			8 GB	D1	1.5	25	48
			8 GB	CIF	1	25	64
H.265	Intel(R) Core i5-8500	Intel HD Graphics	8 GB	1080P	4.5	25	6
			8 GB	D1	1.5	25	32
			8 GB	CIF	1	25	64

Maximum Number of Cameras Viewed per Client (Hardware Decoding)

Encoding Format	CPU	GPU	RAM	Resolution	Bit Rate (Mbps)	Frame Rate (fps)	Maximum Number of Cameras Viewed Simultaneously
H.264	Intel(R) Core i5-7500	NVIDIA GTX 1050Ti	8 GB	1080P	4.5	25	24
			8 GB	D1	1.5	25	72
			8 GB	CIF	1	15	128
H.265	Intel(R) Core i5-7500	NVIDIA GTX 1050Ti	8 GB	1080P	4.5	25	20
			8 GB	D1	1.5	25	64
			8 GB	CIF	1	15	96

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