Visetec CMS

Overview

Visetec CMS is versatile video management software for DVRs, NVRs, IP cameras, etc. 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 Visetec CMS 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
- 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
- Live view in Fisheye mode for fisheye cameras
- Live view in panoramic mode for 32M panoramic cameras
- Support voice broadcast

PTZ Control

- Remote PTZ control, preset, patrol
- 3D positioning, auxiliary focus, and wiper function

Alarm Management

- Alarm configuration for motion event, intelligent analysis event
- Search and export of linked alarm log pictures
- Real-time alarm viewing
- History alarm search
- Possibility to view 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 time period, channels

E-map

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

TV Wall

- Decoder devices 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, snapshot

Capture Retrieval

- The pictures captured by the capture device configured by the event linkage module can be retrieved
- Image retrieval can be performed by time, event type, and channel device

Face Recognition

- White library, black library, 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

Thermal Image Inspection

- Thermal imaging equipment inspection plan can be configured according to time and inspection times
- Check the detailed information of the thermal imaging equipment inspection through the inspection calendar
- Inspection results and inspection collection information can be retrieved through inspection records

Regional Management

- Configurable area and can view the summary data of human flow and vehicle flow in each area
- You can check the area equipment and maximum capacity of people flow prevention and control in the area
- You can view the parking space settings, capture equipment, and parking spaces in the area

License Plate Recognition

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

Parking Lot

- Free allocation of parking spaces
- It can be configured to generate an alarm when the parking space is full
- Configurable alarm linkage IO

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

Visetec CMS

P2P Login

Picture Grid
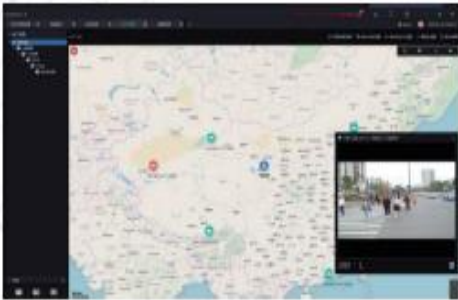Search event by pictures, fast locating

Alarm Events
One-touch play live alarm videos

E-map
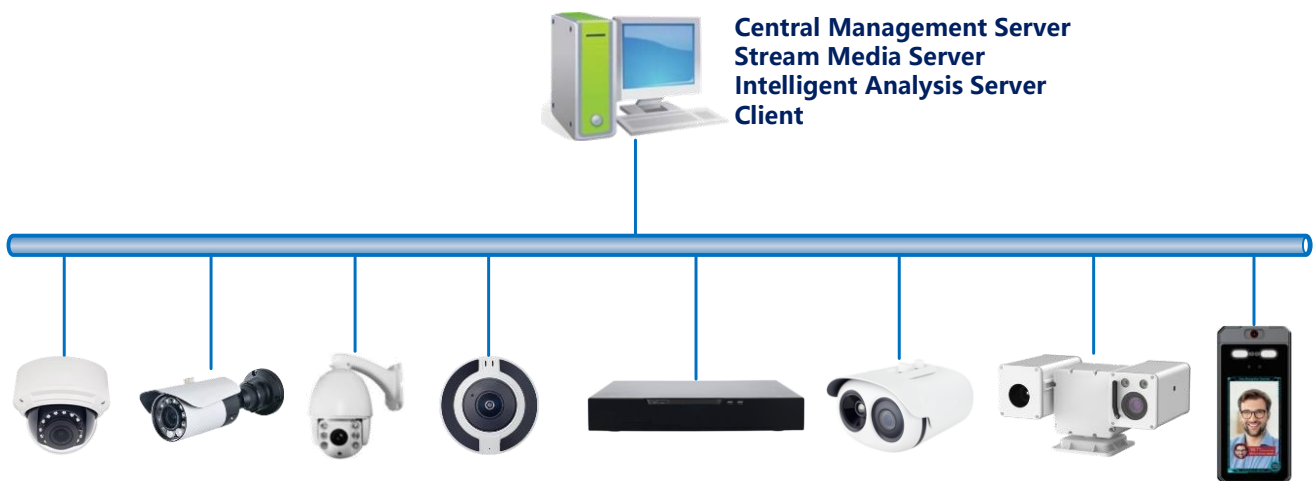Support online map and show camera alarm status

Customizable Interface

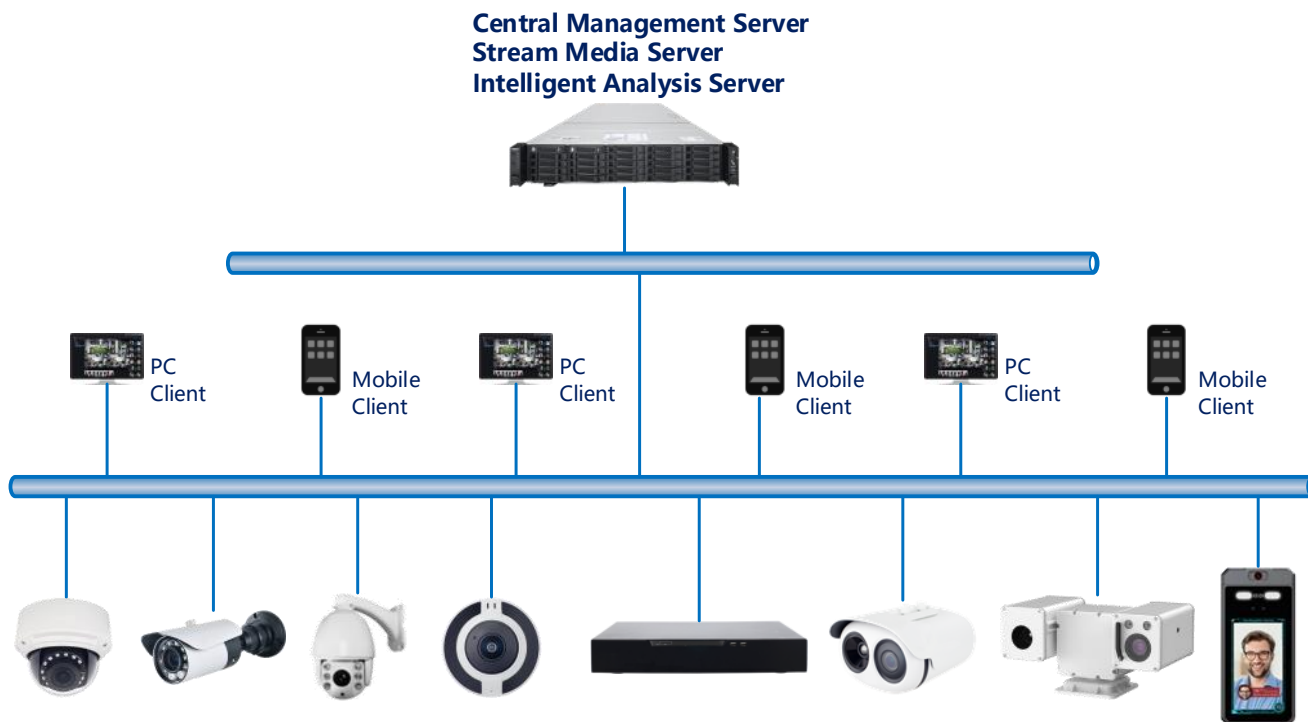## Pop-up/Block Alarm Message
User-defined alarm massage

Typical Application

Mini

**Central Management Server
Stream Media Server
Intelligent Analysis Server
Client**

Middle

Central Management Server
Stream Media Server
Intelligent Analysis Server

PC Client Mobile Client PC Client Mobile Client PC Client Mobile Client

Large

Database Server **Central Management Server** **Stream Media Server(1~n)** **Intelligent Analysis Server(1~n)**

PC Client Mobile Client PC Client Mobile Client PC Client Mobile Client

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 1920x1080	——	——	——	——
GPU	——	——	——	——	NVIDIA GTX 1050 or better

⚠ CAUTION

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	Output 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

The V1.5 version of the intelligent analysis server's face recognition algorithm mode supports CPU or face box devices.

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

∐ 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
H264	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
H265	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
H264	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
H265	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