

3G Vehicles surveillance operation platform introduction

vision:V1.0
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System Introduction

Vehicle monitoring system is a set of comprehensive vehicles surveillance system, which is specially designed for video surveillance network and intelligent scheduling. Through this platform, It can achieve 100000 vehicles monitoring and scheduling, It mainly includes four functions like the remote management, video transmission, operation service, information query. We can also do custom-developed new function or modes integrated according to the customers demand.

Our 3G vehicles surveillance platform can realize 3 g wireless remote real-time video monitoring, GPS map location, history tracking, electronic fence, voice intercom and alarm linkage, remote video storage, remote download video, remote video playback, vehicles Regional management, vehicle remote upgrade, vehicles message issued, vehicle statistics (speed, oil, etc.), the user authority and management, and other functions.

Leading global vehicle monitoring operation platform

fluency, rapid, fluid system and stable,
most complete function, the interface is beautiful



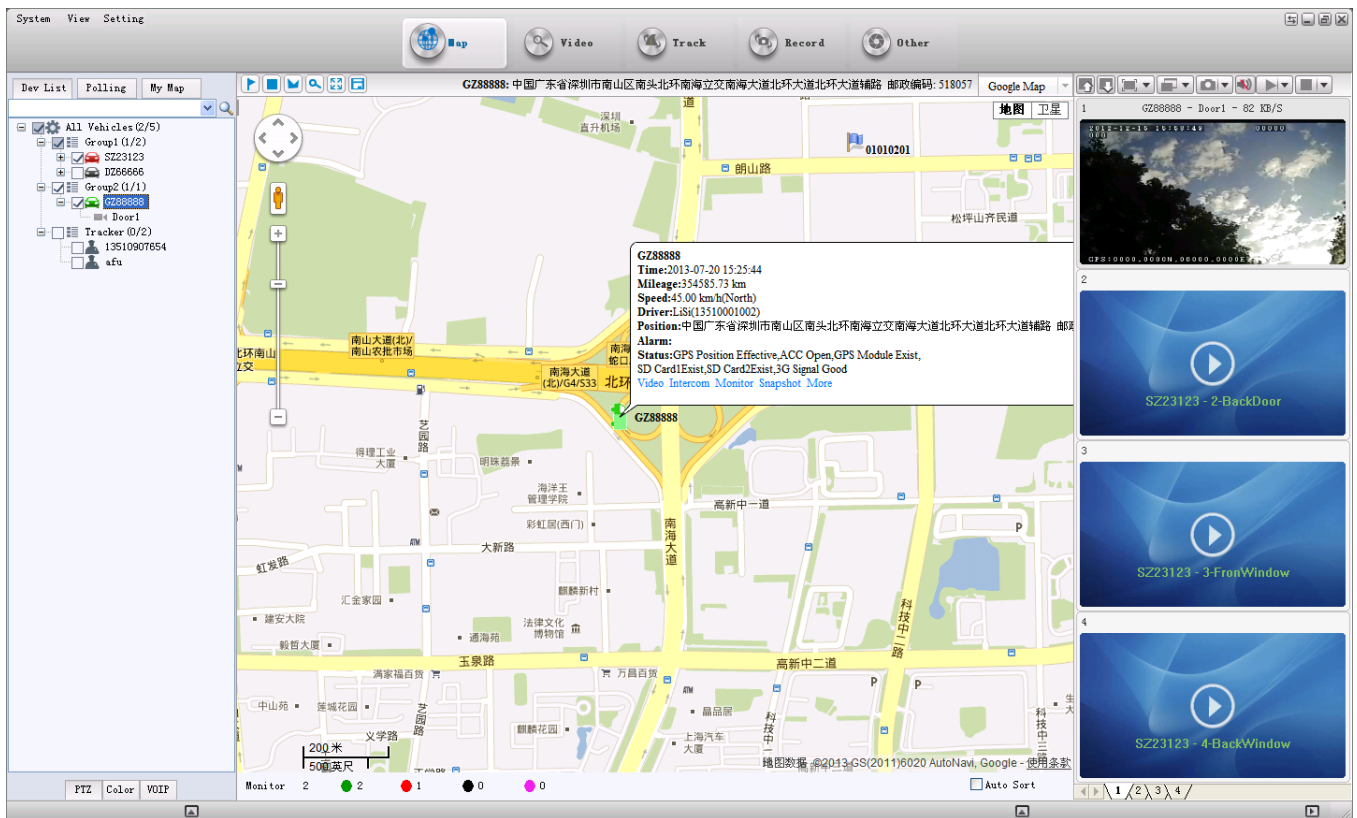


System Architecture

Our software main features :

1. The monitoring system can manage **100000 vehicles**.
2. Complete vehicle information management system.
3. Rapid vehicles positioning ,tracking , GPS information, vehicle real-time status 3: 3:display,vehicles online state and the number of statistics.
4. Vehicle alarm information statistical functions.
5. Vehciles Messages distributed function.
6. Real-time audio and video surveillance.
7. Real-time vehicle front-end image capture function.
8. Two-way voice intercom,vehicles borroadcast function.
9. PTZ control function.
10. Vehicle history tracking playback function.
11. Remote video search, download and playback function.
12. Increased vehicle report forms introductions.
13. Support he iPhone and Android, iPad, mobile terminal for vehicle monitoring, etc.

3G Vehicles operation platform



Audio and video surveillance

GPS vehicles posting

History playback

Electronics fence

Remote video download

Alarm respond and linkage

3G flow pre-function

3G flow statistic function

Video storage

Images snapshot

Monitor talkback

TTS voice

Interface skin peeler

Multi-language version

PTZ remote control

3G real-time video surveillance

Two video effects : real-time and fluency. Real-time is the real-time video transmission , to give priority to choose under good network environment. Fluency is chosen under the condition of the poor network environment, it is to save video to the cache, ensure fluency of video.

Support single and multiple screen preview, the maximum for 64 images.

Support the selected channels preview

Support image polling functionality

Support CIF, D1 and hd1 quality video record

Single, four, six, eight or nine, 64 window mode

up to down screen

4:3 and 16:9 ratio switch

Real-time and fluency switch



stop/clear video

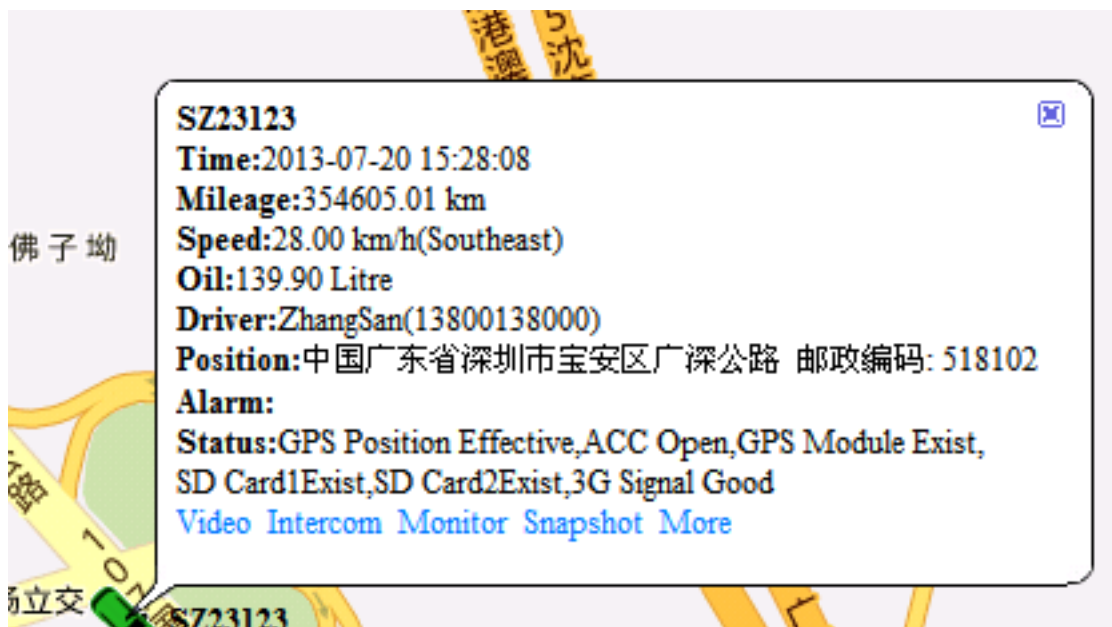
start video

open/close sound

Snapshot pictures
front-end snapshot

Realized personnel/vehicle positioning function

Map shows that the vehicle's specific location, vehicle information, such as the positioning time, mileage, speed, driver, position, alarm state, vehicles status.



History playback

Through the control panel to check the history track of specific vehicle in a specific period of time, learn

Electronics Fence

Electronic fence is used to set the vehicle in and out of certain area, to alarm the center

User can draw or input longitude and latitude to set up the fence area.

Users can set up information sharing to other users of the fence.

TTS Voice

Send TTS voice function equipment, which will broadcast on the screen.

Talkback

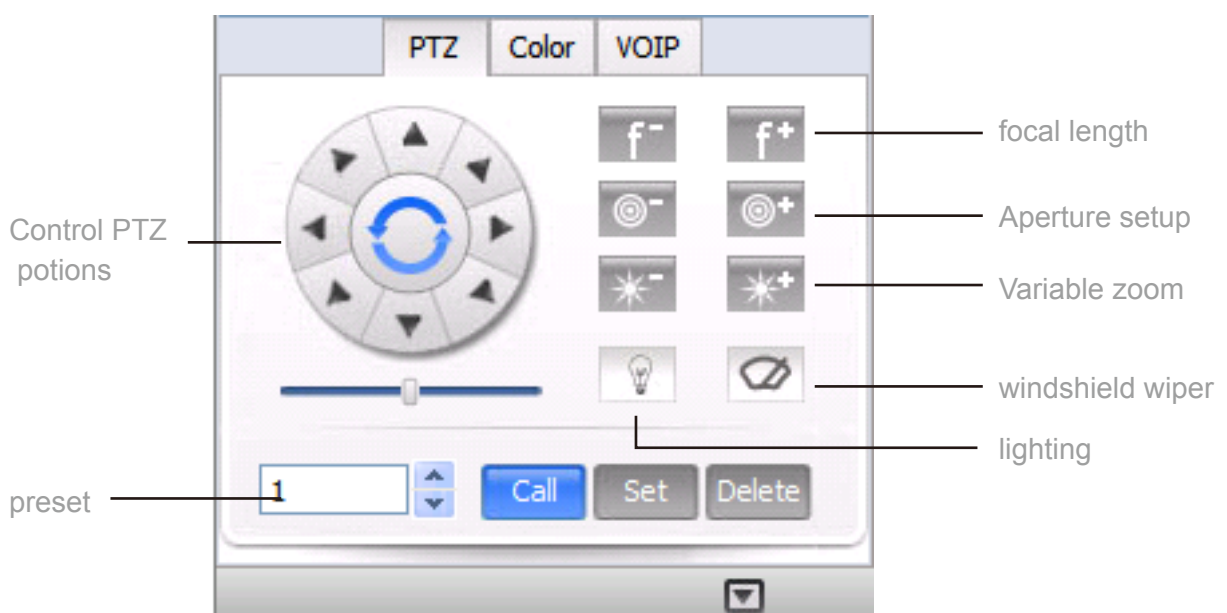
Real-time talkback between PC client and driver

Monitor

PC client to monitor vehicle sound for one-way monitoring.

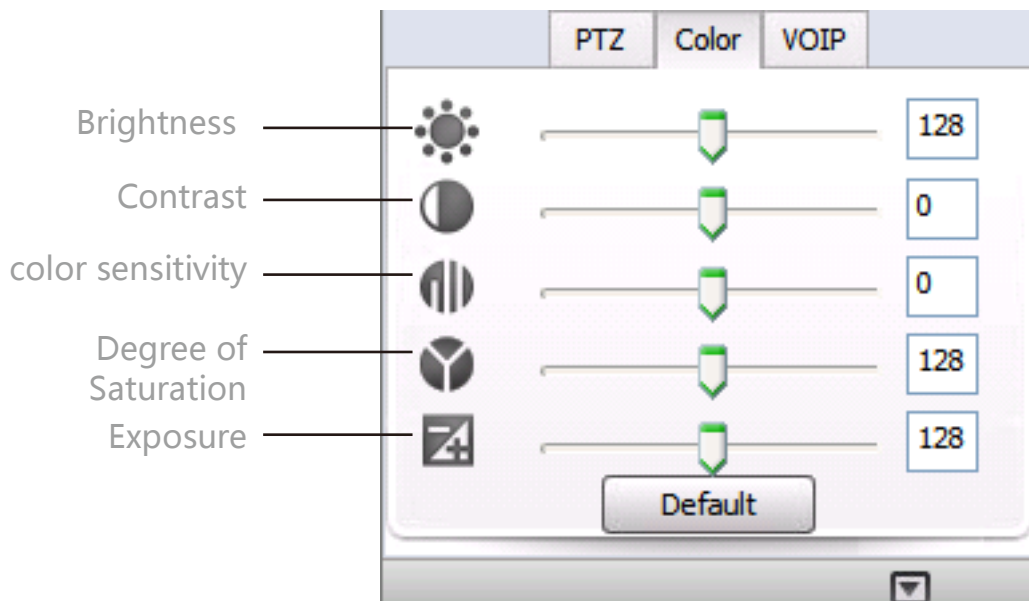
PTZ Remote control

To control PTZ interface by client , remote monitoring PTZ . Can realize to PTZ



Remote color Settings

it can be set up brightness, contrast, color, saturation, visibility through colour, make video watch be better.



Video query

To check "video query" page through the client, quickly search a terminal device, set up and check the position of the video, you can choose in the end equipment of the SD card or hard disk, to download video files to a local disk.

The another way , downlaod the video files or captured image on the storage server, it is convenient for customers to check video ,image or data.

Vehicles

Search Time
Time: 2013- 8-15
Start Time: 00:00:00
End Time: 23:59:59
Vehicle Location
 Vehicle Device
 Local Disk
 Storage Server

File Type

 Video Picture
Video Type
 General
 Alarm
 All

Video download

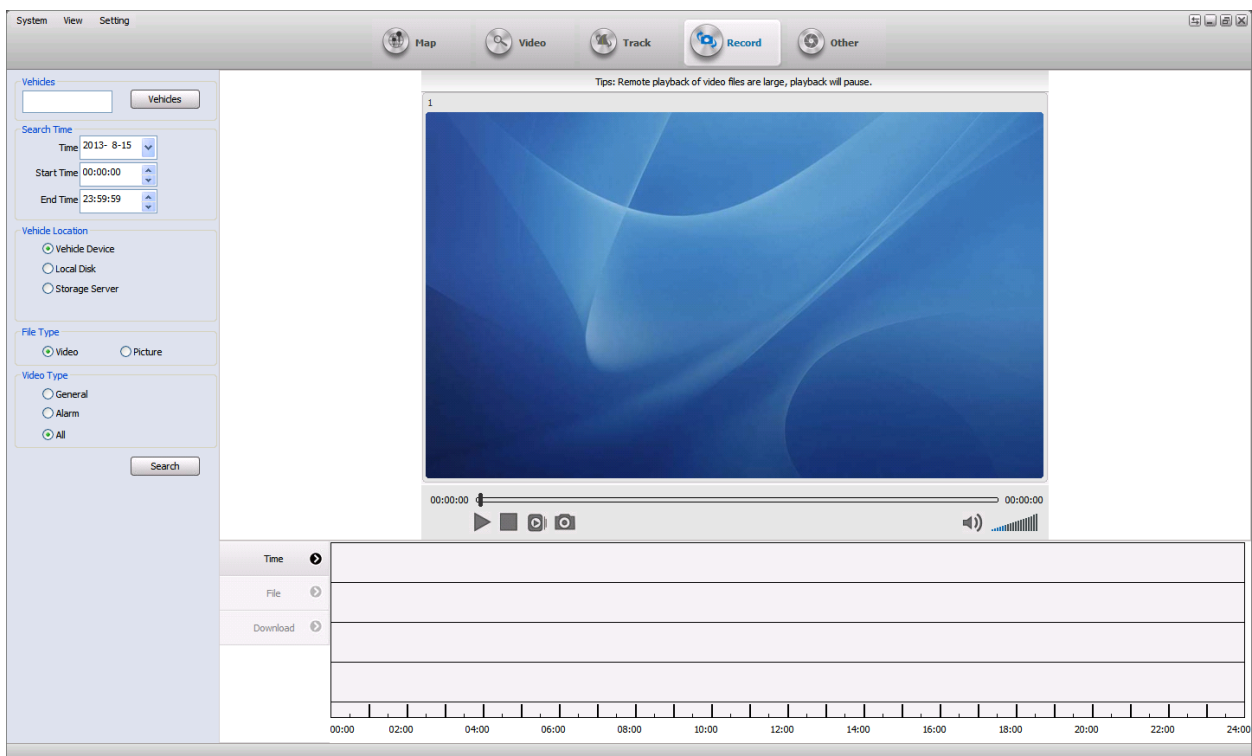
Remote record storage

Remote download record

Remote record playback

Select video download location (terminal equipment, the local disk, download the server and the storage server).

Can search to view the video, and search pre- alarm video5



Alarm linkage and response

Set the alarm ,when it alarms, it will trigger alarm incidents, to response alarm processing

alarm types

All kinds of alarm and pre-management funtion ,Support to set alarm defend position in advance.

Alarm types : the emergency alarm button, the video no signal alarm, illegal to open the door alarm, hard disk error alarm, speed/low speed alarm.

Motion detecting alarm, over parking time alarm, temperature alarm, GPS signal loss alarm, enter into the electronic fence alarm, electronic fence overspeed alarm, electronic low speed alarm, electronic fence parking alarm, electronic fence outside overspeed alarm, electronic fence outside low speed alarm, electronic fence outside alarm, parking brake alarm, left turn alarm, right turn to alarm,the front door alarm and back door alarm.

3 G flow warning function

3 G flow statistics funtion

Users can set up day, month, traffic flow rate limit.

The user can also set the flow rate to remind, achieve the purpose of flow control.

3G Flow Config - 粵G51126

Data Plan Counter

Today MB

Remaining MB

Remaining Day

Total Used MB

3G Flow Config

Data Counter: ▾

Bill Date Th

Monthly Data Plan MB

Daily Limit MB

Flow Limit Alert

Open

Daily Limit %

Open

Month flow remind %

Obtain device 3G information successfully!

3G Flow Statistics

Vehicle Name	Already Use Flow	Month Flow Use	Daily Limit	Month Flow Limit
粵G51126	0.00	0.00	0.00	0.00

Specific flow data to operators's billing system shall prevail

Mobile terminal function and interface

Real-time video monitoring, all under control

Mobile phone to check the real time vehicle video
Support Phone、iPod、 android system



Download at the mobile applications, input software name : "CMSV6"

Real-time video surveillance

Vehicles online up and down

GPS vehicle positioning

Video storage

Vehicle track playback

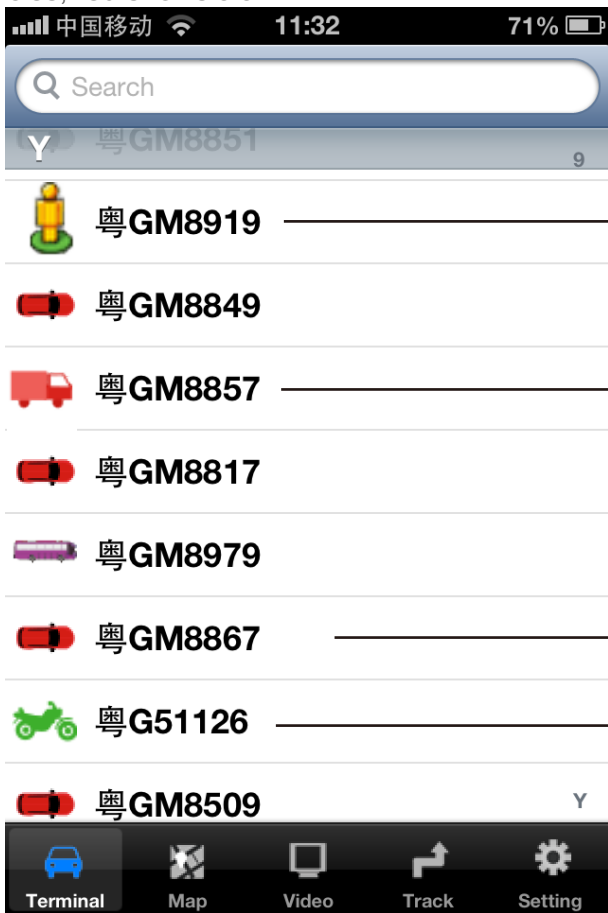
Image capture

PTZ control

Support the satellite map

The vehicle list

First display vehicles list page after login, green shows vehicles online, gray shows vehicles offline vehicles, red shows alarm.

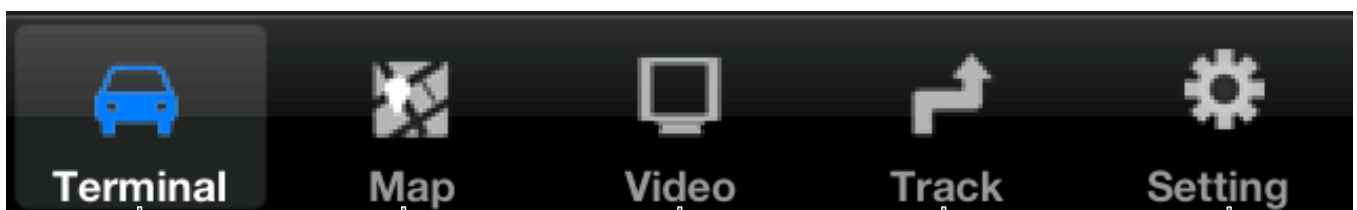


Personnel positioning monitoring

Transport vehicle monitoring and positioning

Car monitoring and positioning

Motorcycle monitoring and positioning



vehicle list

Vehicle positioning

real-time video

History tracking

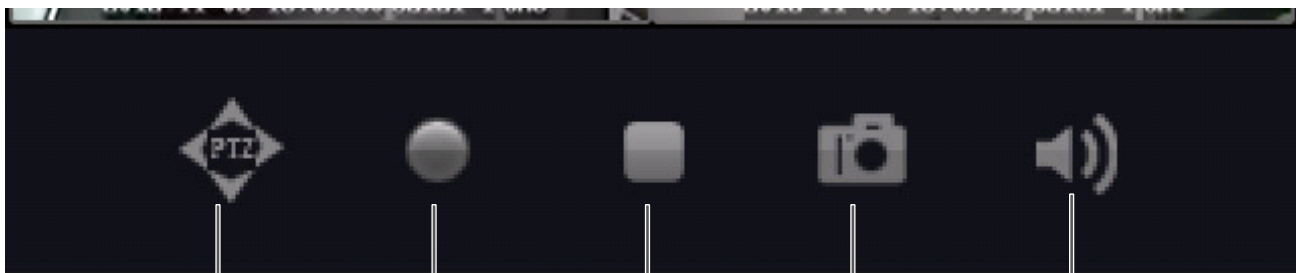
system setup



4 screen display

Real-time video surveillance

Real-time video display, support 4 screen broadcast at the same time, support the PTZ control at the same time. Also can be captured images, real-time video record, and other functions



PTZ control

video playback

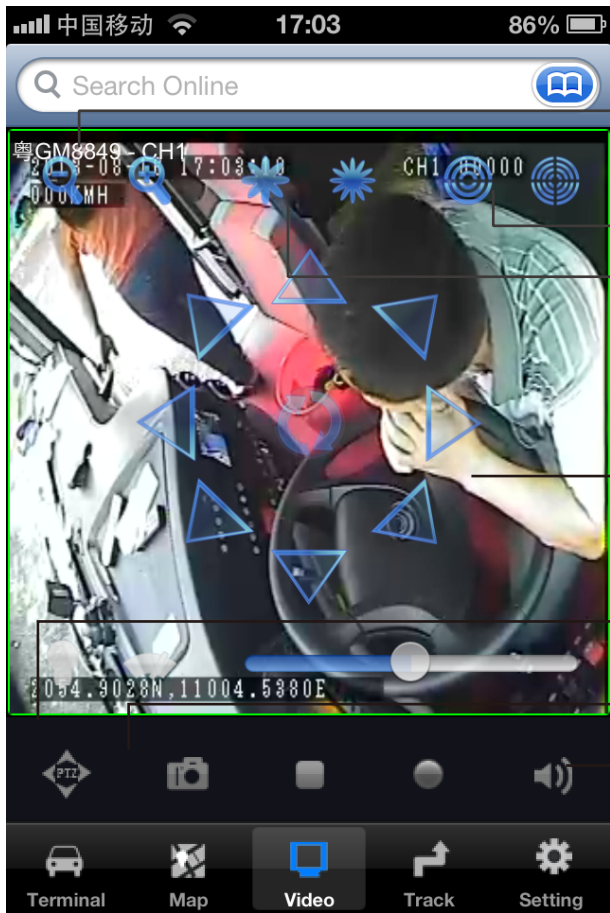
Play/stop

stop snapping pictures

sound open/close

Remote dispatching and video control

To control the focus video images.



Focal distance Zoom in or out

Aperture zoom in or out

Focus zoom in or out

Automatic cruise and control
PTZ for each position

Lamplight

Windshield wiper

Video zoom

GPS vehicles position

display vehicles name and position information on the map,click it



Vehicle information display

Vehicle information and vehicle running state

Display vehicle GPS location, vehicle properties, vehicle running status information



Server introduction

It mainly includes eight servers : login server, gateway server, streaming media server, user management server, WIFI automatically download server, storage server, WEB server, and remote monitoring client .

Server consists of one or two database servers, one or two login server, multiple gateway servers and multiple streaming Server, multiple user management server to provide GPS, video, alarm etc to the vehicles MDVR and client

Database server: using the MySQL /SQL/Oracle...

Login server: accept various server register , coordination and management of successful registration server.

Distribution for user management server to client and configuration , Distribution

gateway server for MDVR , Realize user management server, gateway server, the server load balance.

Gateway server: provide vehicle access. Vehicles and gateway server to establish communication links, and transmission vehicle location and status information through the link.

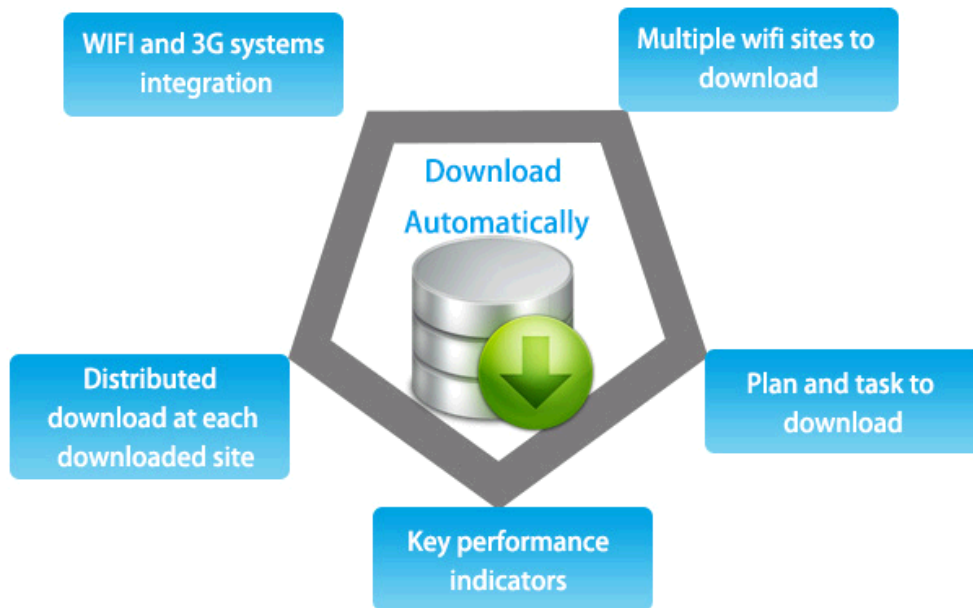
Streaming media server: to provide media data forwarding function.

Including audio and video, intercom, monitoring, capturing, parameter configuration, search and download of data forwarding.

User management service: Provide the client access server.

WIFI automatically download server: when the vehicles enter the station, if there is WIFI connection , It will download video files automatically.





Download the key features

WIFI and 3g systems integration

Vehicle information, download plan, download task unified management

Video file data storage to download site

Download file information summary to the center, to avoid repetition video files to download

Download sites distributed load

Each site can download multi servers, mutl-vehicles simultaneously download , support more than 100 vehicles to download simultaneously.

Key performance indicators (kpis)

to support more than 100 vehicles to download simultaneously at single download site

To support 10 vehicles to download simultaneously at single download server

Multiple WIFI download site

You can deploy multiple download site,

Vehicles can downlaod at mutlti- parking spot

Plan and task to download

To made download plan and download automatically

To submit tasks to download manually email or SMS notification after completion of task execution