



## GPS TRACKING SOLUTION

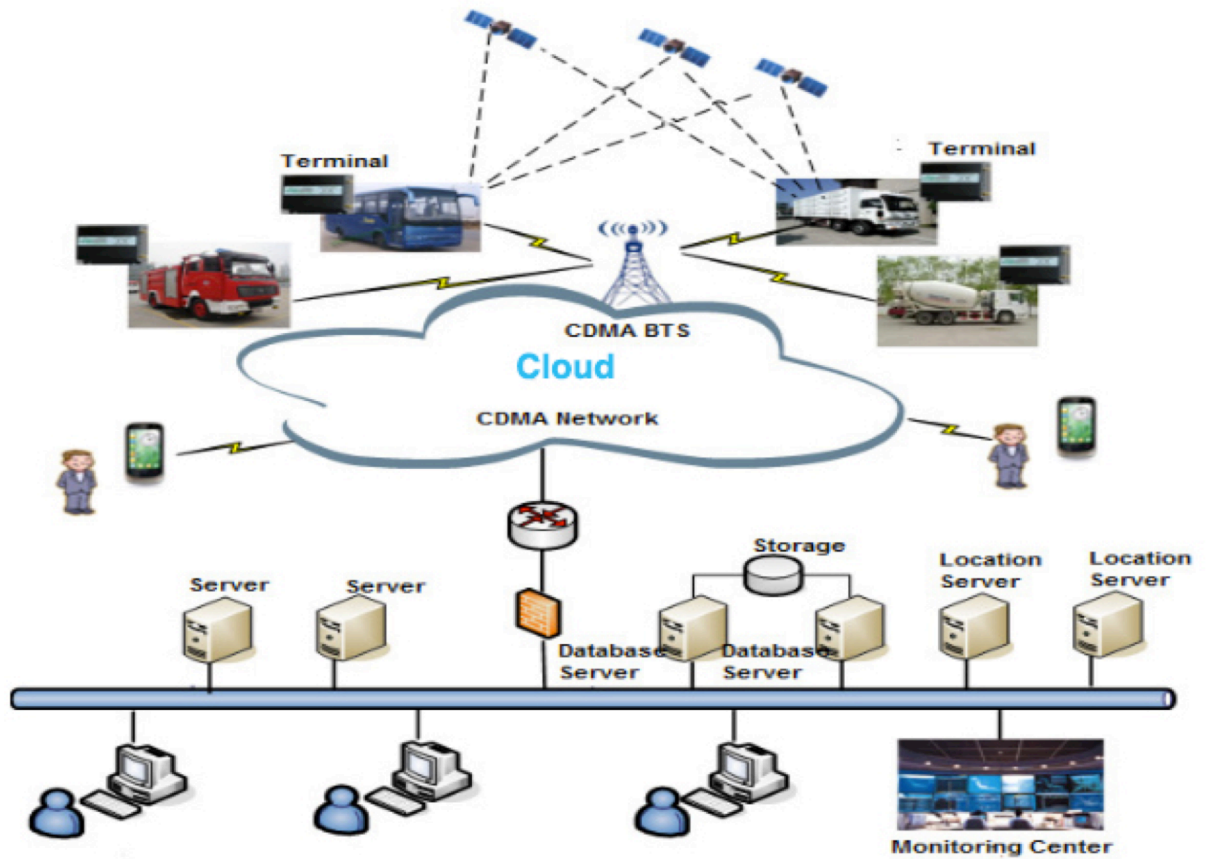


Fig. 2 Network Structure

The vehicle management system contains these sub system: GPS vehicle positioning terminal, intelligent vehicle management platform (including the location server, database server and the electronic map platform), supporting platform, vehicle dispatching staff terminals and the large screen in monitoring center.

In Figure 1, local server is the core of the system, the logical functional structure shown in Figure 3, the Location Server Software Function Structure.



Fig. 2 Vehicle of Device



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**1080P 2MP** Mobile vehicle DVR Support 4 **Channel** in **1080P** resolution with 3G 4G GPS and WIFI optional

**Model :M620**

**Applications:**

Buses, Coach, Logistic Trucks, Tractors, Police Cars, Taxi Armored cars, Public security and law enforcement vehicles Ambulances, Traffic duty vehicles and other fields.





**THAI GLOBAL TECHNOLOGIES CO.,LTD.**

**M710AHD**

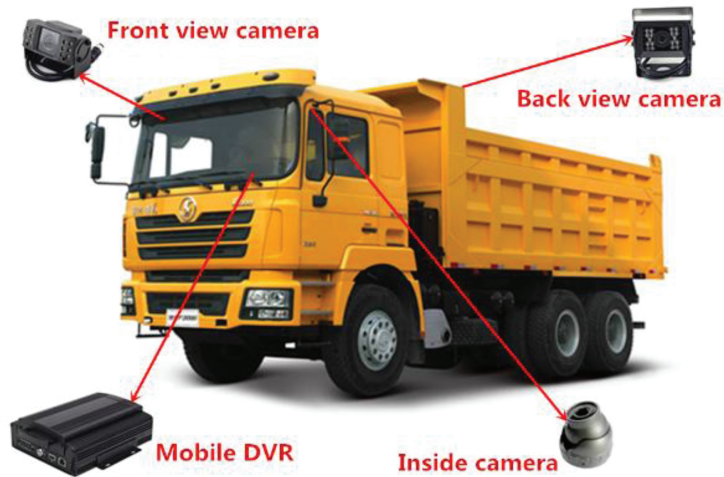
4-CH Hard Disk Vehicle Mobile DVR



## Features

- H.264 Video Compression
- 4Ch 720P AHD input, 1Ch output
- 10-36V wide voltage with low power consumption
- Support 2.5" HDD, max 128G SD Card) protect from Shock & Dust damage
- Support USB port data backup and device update
- Support GPS/BD/G-Sensor Extension module
- Realize real time monitor through 3G/4G
- Support Broadcast/Intercom/Text sent etc;can add oil sensor/temperature sensor/POS/LED Advertisement Panel
- Support IOS/Android Phone Remote monitor

## Truck Solution



**Mobile DVR:**

**Model: M710**



**This model is 4Ch 720P AHD Hard Disk mobile dvr with 3g/4g gps wifi optional.**

**Camera:**

**1. Waterproof vehicle IR camera (Back view)**



**Description**

**Model: C801AHD**

1.3 Mega pixel COMS sensor  
960P(1280x960) AHD high definition Camera  
3.6mm,2.8 mm Lens optional  
18PCS  $\Phi$ 5 IR LED  
IR Lamps Irradiation Distance 15 M  
IP68 Weatherproof  
DC12V

## 2. MINI dome camera (Inside)



### Description

#### Model: C802MA-AHD

- 1.3 Mega pixel COMS sensor
- Vehicle IR • Day/Night Metal Box Camera
- 960P(1280x960) AHD high definition Camera
- 6PCS  $\Phi$ 5 IR LED , IR Distance 10M
- Compact function for Shutter/Auto, BLC/Auto, AGC/Auto;
- Fixed lens 3.6 mm /2.8 mm lens
- With audio
- Size : 69x57mm
- DC12V

## 3. Vehicle Metal Box Camera with IR optional (Front view)



### Description

#### TYPE: C805-AHD

- ◆ Vehicle Metal Box Camera
- ◆ Resolution : 1.3/2MP sensor
- ◆ Lens Optional : 3.6 mm Megapixel lens
- ◆ Easy installation Mechanical Design
- ◆ With Flexible Bracket
- ◆ 12 leds( $\Phi$  3mm), vision range15m(Optional)
- ◆ Dimension: L80.3 x H49.5 x W43.4 ( mm )



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## Specification

Item		Parameter
OS		Linux
Language		English/Chinese/Customized
Video Compression		H.264 Compression
OSD		Overlays information such as date time and vehicle ID
GUI	Graphical User Interface	Setup system parameters with the remote control.
Video Record System	Video Input	4CH <b>1080P 2MP</b> ,aviation connector, 1.0Vp-p, 75Ω
	Video Output	<b>1 CVBS, 1.0Vp-p, 75Ω,Aviation,Support 1CH Full Screen,4CH Screen view</b>
	Preview	Support 1 channel and 4 channels preview., Support Manual/Alarm Trigger full screen preview
	Resolution	<b>1080P, 720P/D1/HD1/CIF, MAX:4 channels of 1080P</b>
	Image Quality	1-4 levels, 1 is the highest level.
	Video Standard	PAL: 100f/s , CCIR625 line,50field; NTSC: 120f/s, CCIR525 line,60field; CIF: 256Kbps ~ 1.5Mbps, 8 level video quality optional; HD1: 600Kbps ~ 2.5Mbps, 8 level video quality optional; D1: 800Kbps ~ 3Mbps, 8 level video quality optional; <b>720P: 4Mbps-6Mbps, multi level video quality optional</b> <b>1080P: 5Mbps-8Mbps, 8 level video quality optional;</b>
	Record Mode	The default setting is auto recording after power on. Timed recording, alarm trigger recording and manual recording are supported.
Audio	Audio Input	4CH Aviation Plug Input
	Audio Output	<b>2CH,headphone connect at front panel, BNC Connect on Back panel</b>
	Compression	G.726 compression, 8KB/s speed
Alarm Input		6CH Alarm Input,1CH AD Input,impulse speed input,Alarm Linkage
<b>Alarm Output</b>		<b>2CH Alarm Output,Support Light/Sound alarm sensor,Oil/Power cut off</b>
Interface		2CH RS232, POS/Fuel Sensor/LED Advertisement Connection
		1CH 485 Interface,Connect PTZ Camera
Wireless Transmission		Support Built in 3G transmission,, WCDMA, CDMA2000,GPRS, EDGE; Built in 4G module optional, TDD-LTE, FDD-LTE
GPS Position		Support Built GPS/BD Module
Storage	<b>HDD &amp; SDD</b> SD Card	<b>Max 2.5" 2TB HDD</b> <b>AND SDD</b> Max 128GB SD Card Mirror Recording Keep Data Safety
	Update	Support USB Updating, SD Card Updating,OTA Remote Updating
	File Format	H.264
	File System	Special FAT32 File System
	USB	USB Interface on Front Panel for data back up by U Disk,Hard Disk
Record Replay	Video Search	Search By Record Time/Record Type etc



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	Playback	Max support 4CH Replay /Stop/Fast/Slow at same time Support forward and backward play at the speed of: x 2,x4,x8,x16.
Security		User/Admin 2 Level Different Password
Optional Functions	Voice Call	Support voice call each other
	TTS Voice Broadcast	Support TTS voice broadcast function.
	Serial Expand	Support LED Advertisement Panel,Oil Sensor, POS, Bus Station Broadcaster, Car OBD, ect.external device
Voltage & Power	Power Management	Wide Voltage.Support Timed/Delay off
	Input Voltage	DC:+12V - +36V
	Output Voltage	+12V~1.5A,+5V~1.5A
	Power	Working <5W
Working Environment	Temperature	-20℃ - +70℃
	Humidity	20% - 80%
	Size	218 (D)* 161(W)* 65(H) mm
Others		
	Weight	2.2 Kg

## CMS software

The screenshot displays the MVS (Mobile Device Management Platform) software interface. The top navigation bar includes options like Real Video, Map, Replay, Log Management, DeviceController, and Setting. The main area is divided into several sections:

- Search and Device List:** A search bar at the top left shows the IP address 183.61.171.28:6008. Below it, a tree view shows 'All Devices(4/4)' and 'test01(4/4)'. A table lists devices with columns: Name, PlateNum, Speed, Spd.
 

Name	PlateNum	Speed	Spd
PC2068	98	60.5	100
PC2069	98	60.5	100
PC2070	98	60.5	100
PC2071	98	60.5	100
- Video Feeds:** A central grid of six live video feeds showing the interior of a bus or train, with passengers seated.
- Map:** A Google Maps view on the right side showing the location of the selected device (PC2068) in a city area, with a red pin and a blue line indicating the route.
- Alarm Messages:** A table at the bottom right displays a list of alarm messages.
 

Index	Device Name	Description	Channel	Alarm Time	Device ID	Longitude	Action
446	PC2068	LowSpeed	1	2015/08/24 14:09:03	00000	102.0	Yes
447	PC2068	LowSpeed	1	2015/08/24 14:09:03	00000	102.0	Yes
448	PC2068	LowSpeed	1	2015/08/24 14:09:03	00000	102.0	Yes
449	PC2068	LowSpeed	1	2015/08/24 14:09:03	00000	102.0	Yes
450	PC2068	LowSpeed	1	2015/08/24 14:09:03	00000	102.0	Yes
451	PC2068	LowSpeed	1	2015/08/24 14:09:03	00000	102.0	Yes
452	PC2068	LowSpeed	1	2015/08/24 14:09:03	00000	102.0	Yes

The interface also includes a bottom control bar with buttons for 'View More', 'Message Filter', and 'Alarm Action', and a status bar at the very bottom showing the device ID 'test01[183.61.171.28] 11:13' and a loaded size of '3591 KB'.



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## CMS software

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On the left, there is a "Searching" panel showing a list of devices with columns for "Name", "PlateNum", "Speed", and "Spd". Below this, there is a "GPS Info" section for a specific device (PE2068) with details such as "Speed: 96KMh", "Lat: 37.378993", and "Time: 2015-08-24 14:09:03".

The central part of the interface features a video feed showing the interior of a bus with passengers. To the right of the video feed is a map showing the current location of the device, with a red dot indicating its position on a road.

At the bottom, there is an "Alarm Message" table with columns for "Index", "Device Name", "Description", "Channel", "Alarm Time", "Device ID", "Lnglat", and "Action". The table contains several rows of alarm data, including "Low speed" and "K2S Trigger" events.

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