



GPS TRACKING SOLUTION

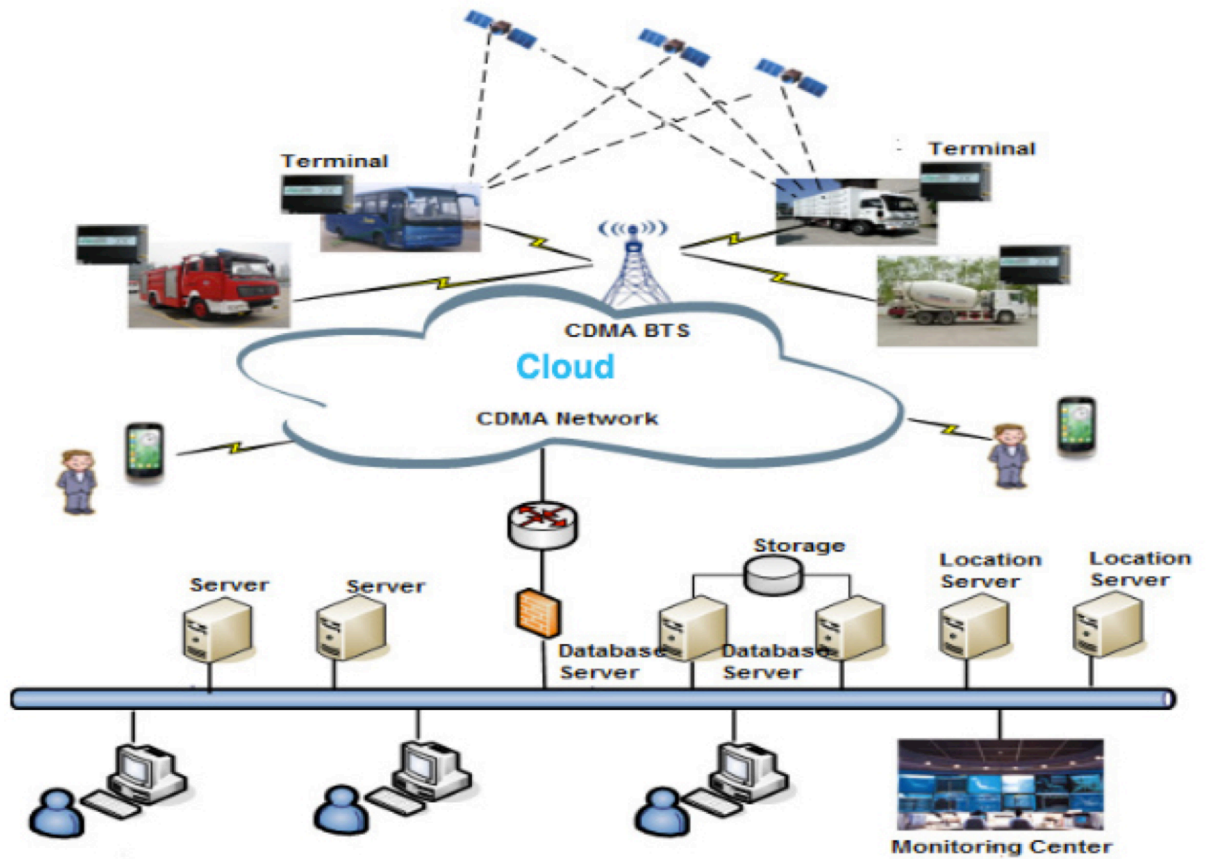


Fig. 2 Network Structure

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



Thai Global Technologies co., LTD.

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 Φ 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 Φ 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(Φ 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 1080P 2MP ,aviation connector, 1.0Vp-p, 75Ω
	Video Output	1 CVBS, 1.0Vp-p, 75Ω,Aviation,Support 1CH Full Screen,4CH Screen view
	Preview	Support 1 channel and 4 channels preview., Support Manual/Alarm Trigger full screen preview
	Resolution	1080P, 720P/D1/HD1/CIF, MAX:4 channels of 1080P
	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; 720P: 4Mbps-6Mbps, multi level video quality optional 1080P: 5Mbps-8Mbps, 8 level video quality optional;
	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	2CH,headphone connect at front panel, BNC Connect on Back panel
	Compression	G.726 compression, 8KB/s speed
Alarm Input		6CH Alarm Input,1CH AD Input,impulse speed input,Alarm Linkage
Alarm Output		2CH Alarm Output,Support Light/Sound alarm sensor,Oil/Power cut off
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	HDD & SDD SD Card	Max 2.5" 2TB HDD AND SDD 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 MDS (Mobile Device Management Platform) software interface. The main window is titled 'Mobile Device Management Platform' and includes a navigation menu at the top: 'Real Video', 'Map', 'Replay', 'Log Management', 'DeviceController', and 'Setting'. On the left, there is a search bar and a tree view showing a hierarchy of devices, including 'All Devices(414)' and 'test01(414)'. The central area features four video feeds showing the interior of a bus, with a timestamp of '2015-08-24 14:09:03'. On the right, a Google Map shows the current location of the bus, with a red dot indicating the position. Below the video feeds, there is a control bar with buttons for 'WindowNum', 'Record', 'Snap', 'Sound on', 'Loop Play List', and 'RealTime Mode'. At the bottom, there is a table of alarm messages and a 'GPS Info' panel.

Index	Device Name	Description	Channel	Alarm Time	Device ID	Lnglat	Action
146	PP-0004	LowSpeed	0	2015/08/24 14:09:03	00004	0.0	No
147	PP-0004	LowSpeed	0	2015/08/24 14:09:03	00004	0.0	No
148	PP-0004	425 Tripper	0	2015/08/24 14:09:03	00004	0.0	No
149	PP-0004	LowSpeed	0	2015/08/24 14:09:03	00004	0.0	No
150	PP-0004	425 Tripper	0	2015/08/24 14:09:03	00004	0.0	No
151	PP-0004	LowSpeed	0	2015/08/24 14:09:03	00004	0.0	No
152	PP-0004	LowSpeed	0	2015/08/24 14:09:03	00004	0.0	No

GPS Info

- Device Name: PE2068
- Speed: 99KM/h
- Lng: 116.3819993
- Lat: 37.3789983
- Height: 29
- Satellite Num: 9
- Turn Around: None
- Brake: None
- Address: EE
- Time: 2015-08-24 14:09:03