# Security on Wheels

CCDCAM Mobile Products

**CCDCAM**

# BASIC PRINCIPLES OF MOBILE PRODUCTS

Mobile DVR belongs to the market segment of traditional embedded hard disk video recorder. It is an emerging special product developed with the application of digital video and audio coding technology in vehicles.

It adopts embedded processor and embedded operating system, and combines the latest H.265 audio and video compression/decompression technology, GPS global positioning technology, 3G wireless communication technology, USB communication technology, and advanced vehicle power management technology in the IT field. , GIS geographic information technology, suitable for 24-hour monitoring of various types of vehicles.

Mobile cameras are an important part of vehicle security monitoring, mainly including lenses, filters, CMOS, PCBA, DSP and other packaging and protective materials. Different from the mobile phone camera, the module process of the vehicle camera is more difficult, and it needs to maintain a stable working state for a long time under various complex working conditions such as high and low temperature, damp heat, strong low light and vibration. With the rise of autonomous driving, in-vehicle cameras will become the new blue ocean of the future camera market.

# What we offer

CCDCAM's mobile onboard surveillance systems offer both analog and a wide range of selected products to fit your specific needs.

Designed for the harsh environmental challenges of vibration, dust and varying temperatures, the systems feature market-proven

performance and keep forensic evidence for situations such as pickpocketing and traffic accidents.

The mobile monitoring framework consists of mobile terminals, transmission network and monitoring center to form a three-layer

networked integrated monitoring system, which provides functions such as vehicle anti-theft, anti-robbery, driving route monitoring,

real-time wireless transmission of video images inside and outside the vehicle, rapid accident response, and call command. , to solve

the problem of dynamic management of existing vehicles.

System Requirement

With the vigorous development of public transportation, more and more attention has been paid to the safety and management of

public transportation operators in the operation process. In addition to the constant disputes over transportation in public transportation

across the country, cases of theft and robbery on buses have occurred from time to time. These have been troubling bus drivers and

management personnel and public security departments, and have seriously disturbed social stability.

# Function

The function of presenting video and audio in real time provides a more scientific basis for handling and locating traffic accidents, and fully guarantees the safety of our property and life.

Function:

1. Provide reliable evidence for the analysis and determination of traffic accidents.
2. It is convenient for drivers and passengers to check the situation in the car.
3. Provide a basis for dealing with the occurrence of passenger disputes, lost and found, anti-robbery and anti-theft problems in the car.
4. Provide monitoring of the environment inside and outside the compartment to provide safety guarantee for vehicle driving.

- 4/8ch of analog video and audio input, each channel up to 1080P encoding, standard H.265 stream, supports dual stream;
- With 1ch CVBS video output, 1ch audio output;
- With 1ch VGA video output interface, max resolution up to 1920*1080;
- Brand-new in-vehicle dedicated GUI interface, with good user experience, and supports WEB login, Easy to operate;
- It can access 1*M2 SSD and 1*SD card simultaneously (SD card as a spare hard disk), it is pluggable;
- Built-in 3G/4G wireless module, providing flexible wireless transmission;
- With USB data export interface;
- Built-in high-sensitivity satellite positioning module, supporting extended BDS (Beidou positioning), positioning information synchronously encapsulated into the video stream;
- With information collection interface, it can collect the driver's turn left, turn right, brake, reverse, etc;
- The main interface adopts the special aviation plug for vehicle to ensure the stable signal connection;
- With delayed shutdown (0 minute to 6 hours) and 24-hour timing switch function;
- Wide range power supply (DC +9V to +36V), meet the requirements of vehicle electrical characteristics;
- Aluminum stretch case, with good adaptability to vehicle working environment;
- Support left and right mirroring of reversing camera.

# APPLICATION SCENARIOS AND SOLUTIONS

## Oil&Gas

Market Demand & Challenge

Oil& Gas is one of the most important logistics verticals, due to the    inflammable and explosive material carried on the trucks.

When accident happen, it will cause extremely serious harm, so the safe driving of tanker truck during transportation will be the top priority. So it is critical requirement to prevent from the accident, by monitoring driver behaviors, such as over speed, harsh brake, harsh acceleration, harsh cornering, fatigue driving, distracted driving etc.



- Accidents caused by reckless and fatigue driving, etc.
- Lack of Evidence after accidentsg, etc.
- Fuel theft/fraud increase cost
- High expense on insurance
- Driver Attendance out of control

**CCDCAM Solution for Oil&Gas**

Rear view Cam

In-cab view Cam

ADAS / Front View Cam

DMS Cam

Side View Cam

GPS Satellite

Tuya APP

4G

CMS server

MDVR

# Taxi

Market Demand & Challenge

The Taxi solution industry has seen a lot of change in the last in the last few years. Deregulation disruption of new entrants into the market and the increasing pressure for better services has put a lot of pressure on taxi and transportation services providers worldwide. We are committed to helping the Taxi and transportation market address the change and take advantage of it.

Safety issue Navigation.Single business mode.Low efficiency.Competition.Fatigue driving.
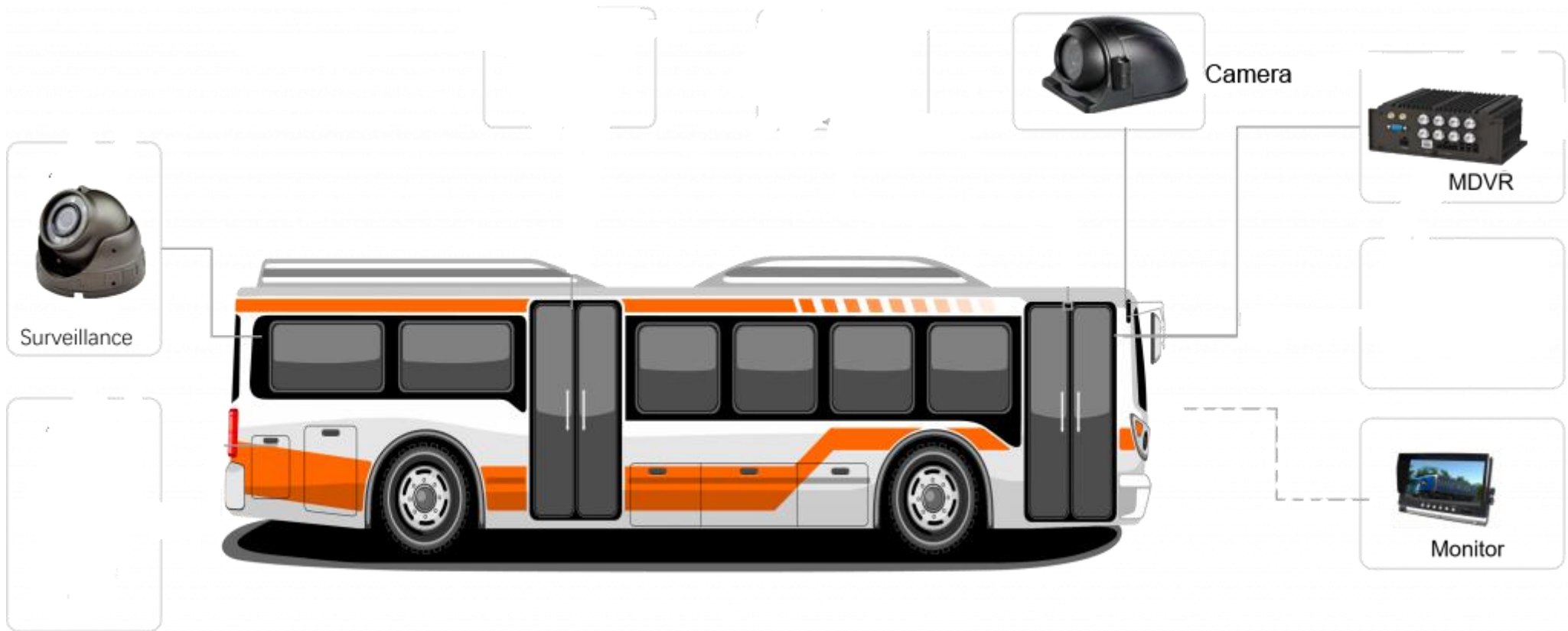
# Public Bus

Market Demand & Challenge

Public transportation is one of essential sector in every city. It has big challenges because various situations can be happened such as robbery, over loading, traffic accidents and so on. Surveillance system can deliver reliable evidence to help bus fleet save much operation costs.

On the other hand, there are significant demands in the bus vehicle service system:

● Ensure safety procedures are followed to protect passengers;
● Record clear audio and video of driver/passenger interaction;
● Mitigate frivolous lawsuits with court-ready evidence;
● Monitor routes in real time;

Camera

MDVR

Surveillance

Monitor

# School Bus

School Bus Transportation has been more and more important in whole world , with the increasing accident happened and many problems coming , which need to solved, for example, on the behavior of the students on the buses, fixing of the bus stops by the schools, handling of complaints from the parents (in some cases these go directly to the principal), reservation of seats or fixed seats on the transport, eating and drinking aboard the buses, compulsory use only those buses on which students have been allotted a seat (and not any school bus), how/where the buses are supposed to pick/drop the students, how buses must be marked, etc.

● Accidents and lack of fast rescue
● No info of children boarding status
● Overloading
● Bad Driver's behavior and safe driving

MDVR

AHD Cams

# Logistics

Market Demand & Challenge

Trailer truck takes one of the heaviest and most important tasks among all types of logistics transportation vehicles. The high value assets and goods calls for secured security monitoring. And the long journey driving shift requires a proper management for driver behavior.

Challenges for trailer truck:

● Long trailer's dimensions need suitable monitoring area
● Detach-able trailer need the system to be easily dis-assembled during management.

- Long time driving cause drowsiness of drivers, risky of accidentsing area
- High value goods transported requires high-level secured solutions

Cargo monitoring

Cabin monitoring

MDVR

# PRODUCT SHOWCASE

## MD62104S

4CH Mobile Video Recorder



## MD62108S

8CH Mobile Video Recorder



4ch of analog video and audio input

1ch CVBS video output, 1ch audio output

Max resolution up to 1920*1080

Support 1*M2 SSD and 1*SD card simultaneously

Built-in 3G/4G wireless module, providing flexible wireless transmission

With USB data export interface

Built-in high-sensitivity satellite positioning module

With information collection interface

With delayed shutdown (0 minute to 6 hours) and 24-hour timing switch function

Wide range power supply (DC +9V to +36V)

Aluminum stretch case, with good adaptability to vehicle working environment

Support left and right mirroring of reversing camera

8ch of analog video and audio input

1ch CVBS video output, 1ch audio output

Max resolution up to 1920*1080

Support 1*M2 SSD and 1*SD card simultaneously

Built-in 3G/4G wireless module, providing flexible wireless transmission

With USB data export interface

Built-in high-sensitivity satellite positioning module

With information collection interface

With delayed shutdown (0 minute to 6 hours) and 24-hour timing switch function

Wide range power supply (DC +9V to +36V)

Aluminum stretch case, with good adaptability to vehicle working environment

Support left and right mirroring of reversing camera

# MC5210

## 1080P Weatherproof/Water Proof    Mobile AHD Camera



Up to 2 megapixel high resolution

1920 x 1080@25fps/1920 x 1080@30fps video

PAL/NTSC video format

F2.8 mm fixed lens

WDR

Auto adjusting 2D-DNR/3D-DNR

DC 12V

Day/Night mode

Up to 10 m IR range

IP66 weather-proof protection

Seismic structure design

# MC5216

## 1080P Weatherproof/Water Proof    Mobile AHD Camera



Up to 2 megapixel high resolution

1920 x 1080@25fps/1920 x 1080@30fps video

PAL/NTSC video format

F2.8 mm fixed lens

WDR

Auto adjusting 2D-DNR/3D-DNR

DC 12V

Day/Night mode

Up to 10 m IR range

IP66 weather-proof protection

Seismic structure design

# MC5218

1080P Mobile Mini Dome AHD Camera



Thermal: 256 × 192, 12 μm

Up to 2 megapixel high resolution

1920 x 1080@25fps/1920 x 1080@30fps video

PAL/NTSC video format

F2.8 mm fixed lens

WDR

Auto adjusting 2D-DNR/3D-DNR

DC 12V

Day/Night mode

Up to 10 m IR range

IP66 weather-proof protection

Seismic structure design

# Products

IP Video Intercom
Products

Mobile Products

Thermal Products

Underwater Cameras

Camera Modules

Network Cameras

Analog Cameras

Special Cameras

Video Recorder/Kits

Peripheral Products

# Solutions

Industry

Scenario

Application

# Media Center

Industry News

Company Video

# Where To Buy

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