

# DH-MCVR5104

## 4 Channel Mobile HDCVI Video Recorder



- Support HDCVI/Analog Video input
- H.264 dual-stream video compression
- Support 2 ch 1080P+2 ch 720P realtime recording
- VGA/TV simultaneous video output
- Support 1 SATA HDD, 2 USB2.0
- Aviation connectors adopted
- Multiple monitoring: Web viewer, CMS(DSS) & DMSS



### System Overview

MCVR5104 is the first mobile video recorder which adopts the HDCVI technology, it can support 1080P high-definition real-time recording, it can support real-time vehicle location tracking and monitoring, and all the information such as GPS and video can be uploaded by wireless network: 3G/4G/WIFI. This device can also support to connect various accessories, such as card reader, fuel sensor, emergency button. It has already passed EN50155/ISO16750 in order to meet the requirements of mobile use. This device can be used in kinds of solutions for different applications, such as city bus/school bus/taxi/police car/train/truck.

### Functions

#### Anti-vibration

Using shock-absorbing material and structure, the new designed hard disk box can cope with varying degrees of vibration, keeping the system work normally all the time.

#### Wide range of power supply

As the voltage output of vehicle battery changes during driving, the wide range of power supply can protect the device.

#### 3G/4G/WIFI

Embedded with 3G/4G/WIFI module, the device can register into a public network to connect with VMS, and can send all the information (video/audio/alarm/gps) through wireless network.

#### GPS

Embedded GPS module can receive location information and upload to VMS, and the vehicle can be tracked on the electric map of VMS.

#### Multiple ports

With kinds of ports, like CAN, RS232, RS485, I/O, the video recorder can connect with various of accessories, such as card reader, fuel sensor, panic button and so on. (system), so that the video, audio, alarm and location information can be uploaded to

## Technical Specification

### System

|                  |                         |
|------------------|-------------------------|
| Main Processor   | Embedded microprocessor |
| Operating System | Embedded LINUX          |

### Audio and Video

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| Input        | 4 Channel (Don't support audio in when connecting analog cameras) |
| Two-way Talk | 1 Channel Input, 1 Channel Output, RCA                            |

### Display

|                 |                                                                          |
|-----------------|--------------------------------------------------------------------------|
| Interface       | 1VGA, 2TV                                                                |
| Resolution      | 1920×1080, 1280×1024, 1280×720, 1024×768, 800×600                        |
| Display Split   | 1/4                                                                      |
| Privacy Masking | 4 rectangular zones (each camera)                                        |
| OSD             | Camera title, Time, Video loss, Camera lock, Motion detection, Recording |

### Recording

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Video/Audio Compression | H.264/G.711                                                                |
| Resolution              | 2ch@1080P+2ch@720P(1~25/30fps)                                             |
| Bit Rate                | 48~8192Kb/s                                                                |
| Record Mode             | Manual, Schedule(Regular(Continuous), MD, Alarm), Stop                     |
| Record Interval         | 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec |

### Video Detection and Alarm

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| Trigger Events  | Recording, PTZ, Tour, Alarm, Email, FTP, Buzzer & Screen tips     |
| Video Detection | Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank |
| Alarm input     | 7 channel                                                         |
| Relay Output    | 2 channel                                                         |

### Playback and Backup

|                   |                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Playback          | 1                                                                                                                                                                     |
| Search Mode       | Time/Date, Alarm, Motion Detection & Exact search (accurate to second)                                                                                                |
| Playback Function | Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom |
| Backup Mode       | USB Device/Network                                                                                                                                                    |

### Storage

|              |                                   |
|--------------|-----------------------------------|
| Internal HDD | 1 SATA Ports, Up to 2 TB capacity |
| SD card      | 1 SD card, Up to 128 GB           |

### Network

|                  |                                                   |
|------------------|---------------------------------------------------|
| Ethernet         | RJ-45 Port (10/100Mbps)                           |
| Wireless Network | Built-in 3G/4G/Wi-Fi module(optional)             |
| GPS              | Built-in high accurate GPS module(optional)       |
| Network Function | TCP/IP, UDP, DHCP, DDNS, FTP, Email, Alarm Server |
| Max. User Access | 128 users                                         |
| Smart Phone      | iPhone, iPad, Android                             |

### Auxiliary Interface

|        |                                           |
|--------|-------------------------------------------|
| USB    | 2 Ports (1 rear), USB 2.0                 |
| RS232  | 1 Port, for PC Communication and Keyboard |
| RS485  | 1 Port, for PTZ Control                   |
| CAN    | Support                                   |
| Heater | Optional                                  |

### Electrical

|                   |                    |
|-------------------|--------------------|
| Power Supply      | DC 6V~36V          |
| Power Consumption | <15W (Without HDD) |

### Environmental

|                      |                                             |
|----------------------|---------------------------------------------|
| Operating Conditions | -30°C (with heater)~ +60°C (+14°F ~ +131°F) |
| Storage Conditions   | -30°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH   |

### Construction

|            |                                       |
|------------|---------------------------------------|
| Dimensions | 178mm×220mm×50mm (7.0" x 8.7" x 2.0") |
| Net Weight | 2.1kg (4.6 lb) (without HDD)          |

### Certifications

|         |          |
|---------|----------|
| CE      | FCC      |
| EN50155 | ISO16750 |

### Dimensions (mm)

