dahua
TECHNOLOGY

Eight-channel Mobile HDCVI DVR
1080p H.264 Digital Video Recorder

- Supports HDCVI/Analog Video Input
- Dual-stream Recording
- H.264 Video Compression
- Eight-channel 1080p Real-time Recording
- Simultaneous VGA and TV Video Output Channels
- Supports Two (2) SATA HDDs and Three (3) USB Ports
- Aviation Connectors for Increased Signal Stability
- Multiple Network Monitoring Applications: Web Views, CMS, DSS
- Five-year Warranty*

GPS | 3G/4G | Anti-vibration | Fanless | G-sensor

1080p FULL HD | Temperature | Easy Installation | 6~36V ISO7637-2 | CAN bus

System Overview

Dahua Mobile Solutions offers a durable mobile video surveillance solution that provides reliable security for transit agencies. The Mobile Solution HDCVI DVR (or MCVR) operates across different transportation networks. The MCVR simultaneously records 1080p Full HD real-time video from eight (8) analog/HDCVI cameras and provides two (2) simultaneous video output channels.

The MCVR supports real-time vehicle location tracking and monitoring. The MCVR can upload the GPS information along with recorded video to a 3G/4G/WiFi wireless network. The MCVR is also adaptable, allowing connections to various accessories, including card readers, fuel sensors, and emergency buttons.

The recorder is certified to the EN50155 standard and conforms to the ISO16750 standard for mobile use, and is ideally suited for use in all mobile applications, including city buses, school buses, taxis, police cars, trains, and trucks.

Functions

Anti-vibration
Using a shock-absorbing material and a newly-designed structure, the hard disk enclosure can withstand varying degrees of vibration, allowing normal operation in the most extreme mobile applications.

Wide-range Power Supply
The MCVR accepts a wide voltage range (6 VDC to 36 VDC) to accommodate the voltage output from a vehicle battery. The voltage range protects the MCVR from fluctuating power output from the vehicle battery during operation.

3G/4G/WiFi
Embedded with an optional 3G/4G/WiFi module, the MCVR can register into a public network, connect with a VMS, and transmit video, audio, alarm, and GPS information through a wireless network.

GPS
The MCVR offers an optional embedded GPS module that receives location information and uploads the vehicle's position to a VMS. The VMS can plot the position on a map so the position and the path of vehicle can be monitored.

Multiple Ports
The MCVR supports CAN, RS232, RS485, and I/O ports to connect the recorder to accessories, such as card readers, fuel sensors, and emergency buttons. This information, along with video, audio, alarm, and location information can be uploaded to VMS.

Technical Specification

System

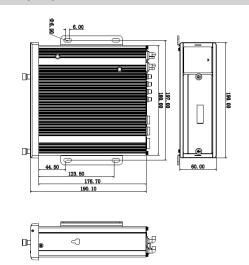|	
Main Processor	Embedded Microprocessor
Operating System	Embedded LINUX

Audio and Video

Video Input	Eight (8) Channels, M12 A-coding Connectors (Audio IN is disabled if an analog camera is connected)
Audio	Input: Two (2) Channels Output: Two (2) Channels

Display

Interface	One (1) VGA Output Port Two (2) TV Output Ports (includes one aviation connector)
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768, 800 × 600
Display Split	1/4/8/9
Privacy Masking	Four (4) Rectangular Zones (each camera)
On-screen Display	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording

Recording

Compression	Video: H.264 Audio: G.711
Resolution	Eight (8) Channels at 1080p Real-time Recording
Bit Rate	48 Kbps to 8192 Kbps
Record Mode	Manual, Schedule (Regular - Continuous, MD, Alarm), Stop
Record Interval	1 minute to 120 minutes (default: 60 minutes) Pre-record: 1 s to 30 s Post-record: 10 s to 300 s

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Alarm, Email, FTP, Buzzer, and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, and Camera Blank
Alarm Input	Seven (7) Channels (Two Channels Impulse Input)
Relay Output	Two (2) Total Channels, One (1) Digital Output, One (1) Control 12V Output

Playback and Backup

Playback	1/4
Search Mode	Time/Date, Alarm, Motion Detection, and Exact Search (accurate to one 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	Two (2) SATA Ports
SD Card	One (1) SD Card Slot, up to 128 GB

Network

Ethernet	One (1) RJ-45 Port (10/100/1000 Mbps)
Wireless Network	3G/4G/Wi-Fi Module (optional)
GPS	High-accuracy GPS Module
Network Function	TCP/IP, UDP, DHCP, DDNS, FTP, Email, Alarm Server
Maximum User Access	128 Users
Mobile Operating System	IOS, Android

Auxiliary Interface

USB	Three (3) Total Ports Front Panel: Two (2) USB 3.0 Ports Rear Panel: One (1) USB 2.0 Port
RS232	Two (2) Ports
RS485	Two (2) Ports
CAN	Support
Heater	Optional

Electrical

Power Supply	6 VDC to 36 VDC
Power Consumption	< 12 W, without HDD

Environmental

Operating Conditions	With Optional Heater: -30° C to +65° C (-22° F to +149° F), Without Heater: -10° C to +65° C (14° F to +149° F)
Storage Conditions	-30° C to +70° C (-220° F to +158° F), 0 to 90% RH

Construction

Dimensions	180.0 mm × 190.0 mm × 50.0 mm (7.10 in. x 7.50 in. x 2.0 in.)
Net Weight	2.20 kg (4.80 lb), without HDD

Certifications

Safety	Conforms to UL Standards
Mobile Applications	EN 50155, Conforms to ISO16750

Dimensions (mm)