

Four-channel Mobile HDCVI DVR

1080p H.264 Digital Video Recorder



- Supports HDCVI/Analog Video Input
- Dual-stream Recording
- H.264 Video Compression
- Two-channel 1080p and Two-channel 720p Real-time Recording
- Simultaneous VGA and TV Video Output Channels
- Aviation Connectors for Increased Signal Stability
- Optional WiFi and GPS Modules Available
- Multiple Network Monitoring Applications: Web Views, CMS, DSS
- Five-year Warranty*

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 four (4) analog/HDCVI cameras and provides two (2) simultaneous video output channels.

The MCVR offers advanced options such as built-in motion detection algorithms, alarm triggers, and customized recording modes. MCVR technology is the ideal solution for actively monitoring and recording video feeds from mobile HDCVI/analog cameras. The recorder uses M12 aviation connectors to connect to cameras as an added level of stability.

Functions

Interfaces

Record and monitor video from four (4) analog/HDCVI camera inputs simultaneously. The mobile MCVR supports one (1) VGA and one (1) TV (BNC) output connection, multiple alarm inputs and relay outputs, plus two-way talk connections – one (1) audio input and one (1) audio output.

Flexible Recording

The MCVR offers a variety of configurable recording options and schedules that saves HDD space and active monitoring time. The recorder monitors incoming video and can be programmed to record if motion is detected. The MCVR can also be programmed to record on a schedule or at different intervals.

Technical Specification	
System	
Main Processor	Embedded Processor
Operating System	Embedded Linux
Display	
Interface	One (1) VGA and Two (2) TV
Resolution	800 x 600
Multi-screen Display	1/4
Privacy Masking	Four (4) Rectangular Zones (each camera)
On-screen Display Options	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, and Recording

Video Detection and Alarm	
Trigger Events	Recording, PTZ, Tour, Alarm Out, 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 Output: Two (2) Channels

Playback and Backup	
Playback	One (1) Channel
Search Mode	Time / Date, Alarm, Motion Detection, and Exact Search (accurate to 1 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, and Digital Zoom
Backup Mode	USB Device Network

Storage	
Internal HDD	One (1) SATA Port
Memory Slot	One (1) Micro SD Card

Auxiliary Interface	
USB	Two (2) USB 2.0 Ports
RS232	One (1) Port for PC communication and keyboard connection
RS485	One (1) Port for PTZ Control
CAN Port	Support
Heater	Optional

Audio and Video	
Camera Inputs	Four (4) HDCVI/Analog Channels
Video Connector	M12 A-coded
Resolution	Analog: NTSC (525 TVL) HDCVI: 720p/1080p
Audio	Input: Four (4) Channels Output: One (1) Channel
Two-way Talk	One (1) Channel Input, One (1) Channel Output

Recording	
Video Compression	H.264, MJPEG
Audio Compression	G.711
Record Rate	
Main Stream	Two (2) Channels : 1080p at 30 fps, plus Two (2) Channels: 720p at 30 fps
Sub Stream	D1 at 8 fps or CIF at 30 fps
Bit Rate	48 Kbps to 8192 Kbps per Channel
Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection, and 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

Network	
Interface	One (1) RJ-45 Port (10/100 MB)
Network Function	TCP/IP, UDP, DDNS, FTP, Email, Alarm Server
Wireless Network	Built-in 3G/4G WiFi Module (optional)
GPS	Built-in High-accuracy GPS Module (optional)
Maximum User Access	10 Users
Mobile Operating System	IOS, Android, Windows

Electrical	
Power Supply	6 V to 36 V
Power Consumption	< 15 W, with HDD

Environmental	
Operating Conditions	-10 °C to +60 °C (+14 °F to +140 °F), 10% to 95% RH 86 to 106 kpa
Vibration Suppression	5 Hz to 200 Hz: X/Y/Z, each direction 5.5 hours 5 Hz to 5.5 Hz: Vibration Amplitude 12.7 mm (0.5 in.) 5.5 Hz to 200 Hz: 15 m/s²
Vandal Resistance	IK10

Construction	
Dimensions	178.0 mm × 220.0 mm × 50.0 mm (7.0 in. x 8.66 in. x 1.97 in.)
Net Weight	2.10 kg (4.63 lbs), with HDD

Certifications	
Safety	Conforms to UL Standard
Mobile Applications	EN 50155
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B

Ordering Information		
Type	Part Number	Description
MCVR	DHI-MCVR5104-G	Four (4) Analog/CVI Channels, 1080p, GPS, Digital Video Recorder
	DHI-MCVR5104-GFW	Four (4) Analog/CVI Channels, 1080p, GPS, Wifi, 4G, Digital Video Recorder
Accessory, optional	MA-PB01	Mobile Recorder Protective Enclosure
	MA-DPBB6401	Emergency Backup Recording Device

Accessories

Optional:

