

4-channel Mobile NVR

H.264 PoE Network Video Recorder



- H.264 and MJPEG Compression
- Four-channel Synchronous Real-time Playback with GRID Interface
- HDMI/VGA/TV Simultaneous Video Output
- Supports Two (2) 2.5-in. SATA HDDs, up to 2 TB each
- Includes Four (4) PoE Ports (IEEE802.3 af/at)
- Aviation Connectors for Increased Signal Stability
- Optional WiFi Module Available
- Conforms to ONVIF Version 2.3
- 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 NVR (or MNVR) operates across different transportation networks. The MNVR simultaneously records up to four (4) IP cameras in real-time and provides up to four (4) simultaneous video output channels.

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

Functions

Interfaces

Record and monitor video from up to four (4) IP camera inputs simultaneously. The mobile NVR supports four (4) channels of HDMI/VGA/TV simultaneous video playback, multiple alarm inputs and relay outputs, plus two-way talk connections – one (1) audio input and one (1) audio output.

Flexible Recording

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

Smart Search

Smart Search allows an operator to specify a region in the playback video to search for a motion detection event, saving time and manpower.

Technical Specification	
System	
Main Processor	Dual-core Embedded Processor
Operating System	Embedded LINUX
Display	
Interface	One (1) HDMI, One (1) VGA, Two (2) TV
Resolution	1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768
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 x 18), Video Loss, and Camera Blank
Alarm	Alarm Input: Four (4) Channels Relay Output: Three (3) Channels
Playback and Backup	
Sync Playback	1/4
Search Mode	Time / Date, Alarm, Motion Detection, and Exact Search (accurate to 1 second), Smart Search
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, eSATA Device, Network, Internal HDD
Storage	
Internal HDD	Two (2) SATA Ports, up to 4 TB total
External HDD	One (1) eSATA Port
Memory Slot	One (1) Micro SD Card
Auxiliary Interface	
USB	Three (3) Ports total, including two (2) USB 3.0 ports
RS232	One (1) Port for PC communication and keyboard connection
RS485	One (1) Port for PTZ Control
G-sensor	Support
UPS	Support
CAN Port	Support, Power Supply for PTZ

Audio and Video		
Camera Inputs		Four (4) IP Channels
Audio, Two-way Talk		One (1) Channel Microphone Input, One (1) Channel Microphone Output
Recording		
Video Compression		H.264, MJPEG
Audio Compression		G.711, PCM
Resolution		12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 1080p, 720p, D1
Record Rate		200 Mbps, maximum
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	M12 Models	M12 D-coded Connector (10/100 Base-T)
	RJ45 Models	RJ45 Connector (10/100 Base-T)
PoE		Four (4) Ports (IEEE802.3af/at)
Network Function		TCP/IP, UDP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Email, Alarm Server
Wireless Network		Built-in 3G/4G WiFi Module (optional)
GPS		Built-in High-accuracy GPS Module
Max. User Access		128 users
Mobile Operating System		IOS, Android, Windows
Electrical		
Power Supply		6 V to 36 V
Power Consumption		≤ 15 W
Environmental		
Operating Conditions		-30 °C to +60 °C (-22 °F to +140 °F), with optional heater 10% to 95% RH, 86 to 106 kpa
Vandal Resistance		IK10
Construction		
Dimensions		180.0 mm × 208.0 mm × 100.0 mm (7.09 in. x 8.19 in. x 3.94 in.)
Net Weight		3.0 kg (6.61 lbs), without 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
Mobile NVR	DHI-NVR0404MF-GFW M12	Four (4) IP Camera Channels, GPS, Wifi, 4G, Network Video Recorder, M12 D-coded Connector
	DHI-NVR0404MF-G M12	Four (4) IP Camera Channels, GPS, Network Video Recorder, M12 D-coded Connector
	DHI-NVR0404MF-GFW RJ45	Four (4) IP Camera Channels, GPS, Wifi, 4G, Network Video Recorder, RJ45 Connector
Accessory, optional	MA-PB01	Mobile Recorder Protective Enclosure
	MA-DPBB6401	Emergency Backup Recording Device

Accessories

Optional:

