

Four-channel Mobile Network Video Recorder

4MP H.265 Mobile Network Video Recorder



- Four-channel IP/PoE Camera Input
- 4 MP Real-time Recording on all Channels
- H.265 Video Compression
- Simultaneous HDMI, VGA, and TV Video Output Channels
- One (1) 2.5-in. Hard Disk Drive Port† and (2) USB 2.0 Ports
- Aviation Connectors for Increased Signal Stability
- Five-year Warranty*

System Overview

Dahua Mobile Solutions offers a durable mobile video security solution that provides reliable security for transit agencies. The Mobile Solution NVR (or MNVR) operates across different transportation networks. The MNVR simultaneously records 4 MP real-time video from four (4) IP cameras and provides four (4) simultaneous video output channels.

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 MNVR accepts a wide voltage range (6 VDC to 36 VDC) to accommodate the voltage output from a vehicle battery. The voltage range protects the recorder from fluctuating power output from the vehicle battery during operation.

Multiple Ports

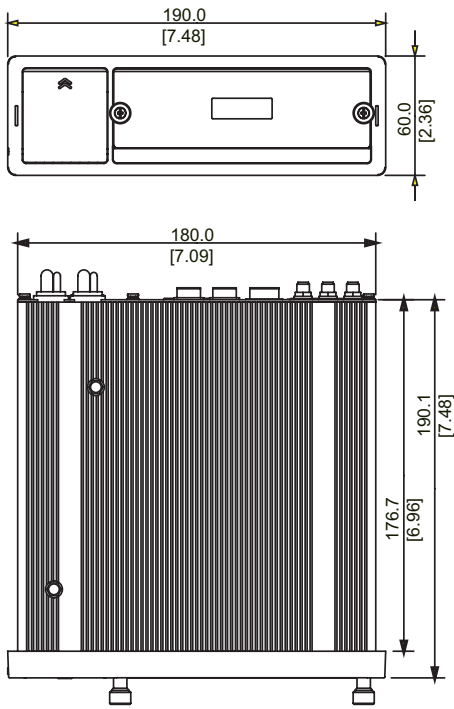
The MNVR supports RS232, RS485, and I/O ports to connect the recorder to accessories, such as card readers, fuel sensors, and emergency buttons. This information, along with video, audio, alarm, and location information can be uploaded to VMS.

Technical Specification	
System	
Main Processor	Embedded Microprocessor
Operating System	Embedded LINUX
Video and Audio	
IP Camera Input	Four (4) Channels, RJ-45
Audio	Input: One (1) Channel Output: One (1) Channel
Display	
Interface	One (1) HDMI Output Port One (1) VGA Output Port, 10-pin Aviation One (1) A/V Output Port, 4-pin M12 Aviation
Resolution	800 x 600
Display Split	1/4
On-screen Display	Camera Title, Time, GPS, License Number
Recording	
Video Compression	H.265
Audio Compression	G.711A, G.711U, PCM
Record Rate	Four (4) Channels at 4 MP Real-time Recording
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: 330 (22 × 15), Video Loss, and, Tampering
Alarm Input	<ul style="list-style-type: none">Channels 1 to 8: Local Alarm InputAlarm 10 Reserved for Panic Button
Relay Output	Two (2) Total Channels, One (1) Relay Output, One (1) Control 12 V Output
Playback and Backup	
Playback	One (1) Channel
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	One (1) 2.5-in. HDD Port, up to 2 TB per HDD (HDD sold separately)
SD Card	One (1) SD Card Slot, up to 256 GB

Network	
Ethernet	One (1) RJ-45 Port (10/100 Mbps)
Wireless Network	3G/4G/LTE-FDD/Wi-Fi Module (Verizon supported)
Network Function	TCP/IP, UDP, DHCP, DDNS, FTP, Email, Alarm Server
Maximum User Access	128 Users
Mobile Operating System	IOS, Android
Auxiliary Interface	
USB	Front Panel: Two (2) USB 3.0 Ports
RS232	Three (3) Ports, for PC Communication and Keyboard
RS485	Two (2) Ports, for PTZ Control One (1) Port, standard connection One (1) Port 4-pin M12 Aviation
Electrical	
Power Supply	6 VDC to 36 VDC
Power Consumption	< 10.2 W, without HDD
Environmental	
Operating Temperature	−10° C to +70° C (14° F to +158° F)
Operating Humidity	10% to 90% RH
Storage Conditions	−30° C to +70° C (−22° F to +158° F), 0 to 90% RH
Construction	
Dimensions	180.0 mm × 190.0 mm × 50.0 mm (7.08 in. x 7.48 in. x 1.96 in.)
Net Weight	1.92 kg (4.23 lb), without HDD
Package Weight	2.93 kg (6.46 lb)

Ordering Information		
Type	Part Number	Description
Mobile NVR	MN4104-VR	Four (4) IP Channels, 4 MP, Network Video Recorder, RJ-45
Accessory, optional	MA-PB01	Mobile Recorder Protective Enclosure
	MA-DPBB6401	Emergency Backup Recording Device
	MLED_BOX	Mobile Recorder Status Indicator with Panic Button
	MP06	Full-Duplex Talkback Terminal
	DH-LM10-V100	10.1-in. WXGA LCD Monitor
	MC-DF4-DM4-18	M12 (D-Coding) Network Cable 18.0 m (59.06 ft)
	MC-DF4-DM4-6	M12 (D-Coding) Network Cable 6.0 m (19.68 ft)

Dimensions (mm/in.)



Rear Panel

The diagram shows the rear panel of the Mobile NVR with 12 numbered callouts: 1. Top left screw; 2. Top left connector; 3. Top left connector; 4. Top left connector; 5. Top left connector; 6. Top left connector; 7. RS232 port; 8. Alarm/CAN/RS485-1 port; 9. Audio In/Out port; 10. Extension Cable Input port; 11. HDMI Out port; 12. Video Input / Power Input port.

1	N/A	7	RS232
2	N/A	8	Alarm/CAN/RS485-1
3	N/A	9	Audio In/Out
4	VGA Out, 12-pin Aviation	10	Extension Cable Input
5	A/V Out, 4-pin M12 Aviation	11	HDMI Out
6	RS485-2, 4-pin M12 Aviation	12	Video Input / Power Input