MNVR4104/4204-I

4 Channels POE H.265 1/2 HDDs AI Mobile Video Recorder

- Supports 4-ch 2MP PoE IP cameras input
- Supports H.265/smart H.265 video compression
- Supports 1/2 HDDs (up to 2 TB for each), and 1 SD card (up to 256 GB)
- Supports DSM, face recognition or ANPR
- Aviation connectors optional
- Multiple network monitoring: Web viewer, Mobile Center & DMSS

Smart Code (H.265)	GPS	3G/4G	Wi-Fi	Gyro	1080p FULL HD
No Fan	Anti-vibration	Easy Installation	6-36V ISO7637-2	High and Low Temperature	

System Overview

MNVR4104/4204-I is the new generation of AI mobile video recorder which supports intelligent functions, it uses H.265 technology and the advantages are lowering the transmission bandwidth and saving the storage.It supports 4MP high-definition real-time recording, real-time vehicle location tracking and monitoring. It can upload GPS and other information to VMS via wireless network such as 3G/4G/Wi-Fi.

It has already passed EN50155/ISO16750 to meet the requirements of mobile use. It can be used in many kinds of solutions for different applications.

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/Wi-Fi
Embedded with 3G/4G/Wi-Fi 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. Even when the device is offline, it can upload the information after it's online again 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, so that the video, audio, alarm and location information can be uploaded to VMS.

Technical Specification

System

Main Processor	High-performance industrial embedded micro-controller
Operation System	Embedded LINUX
Operation Interface	WEB, AV, VGA, HDMI

Video and Audio

IP Camera Input	4 PoE Ethernet Ports, all channels 1080P Total output power of PoE: 36 W Max. output power of a single port: 25.4 W
Encoding Capacity	1080P/720P/960H/D1/CIF
Dual-stream	Supported (up to D1 encoding for sub stream)
Video Frame Rate	PAL: 1 – 25 fps NTSC: 1 – 30 fps
Video Output	AV OUT×1, VGA×1, HDMI×1 Output resolution: 800×600, 1280×1024
Display Split	1/4
OSD Overlay	Channel, time, GPS position, license plate
Image Quality Adjustment	Image quality adjustable across six levels

Compression Standard

Video Compression	H.265, smart H.265, H.264, smart H.264
Audio Compression	G.711A/G.711U/PCM

Network

Mobile Phone Access	iOS, Android
WiFi	Supports built-in 2.4 G Wi-Fi modules.
Browser	Google, PCAPP, IE9 or newer, Firefox

AI

DSM	Supports detection of drowsy driving, distracted driving, calling while driving, no driver, wearing IR blocking sunglasses, smoking when driving and lens tampering.
Face Detection and Face Recognition	Face capture, face comparison
License Plate Recognition	License plate capture, blacklist comparison and alarm

Update

Device Update	WEB, USB, remote platform, upgrade tool

Recording Playback

Record Mode	Auto, Manual, motion detection, schedule, alarm Record alarm > alarm > motion detection > schedule
Recording Playback	1, 4
Backup	HDD, USB flash drive and network backup
Playback Mode	Normal playback

Storage

HDD	1/2 2.5-inch HDDs (SATA)
Heat Dissipation	Built-in fan cooling
SD card	1 (256G)

Alarm

General Alarm	Motion detection, video tampering and loss, local alarm, camera offline, manual alarm control, face blacklist and restricted number plate list alarm
Abnormal Alarm	No HDD, HDD error, insufficient capacity, illegal login, ACC off, high temperature, rollover, battery low voltage, over speed, low speed, collision, tapid turn, rapid speedup, hard braking, low battery safety exception, network security exception
Alarm Linkage	Record, snapshot, local external alarm output, buzzer, log, screen prompt, tour

Sensor

Gyroscope	Supports event detection and alarm such as rollover, collision, rapid speedup/slowdown/turn.

External Port

TV Output	1
Audio Input	4 channels PoE audio input
Audio Output	1 aviation port for audio output 1 audio talk output
Two-way Talk	Supported
Alarm Input	8 channels for alarm input, 1 channel for pulse speed measuring
Alarm Output	1 channel of controllable 12V alarm output, digital quantity

RS-232	3
RS-485	2
USB	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 2.0 from EXTEND port
Pulse Count	1
Satellite Positioning	GPS/GLONASS
CAN	1
Network Port	1 × 10M/100M RJ45

General

Power Supply	DC 6-36V with the built-in UPS (Enables system protection in normal power cut-off and in under-voltage of vehicle battery.)
Power Consumption	10.2 W (without peripheral) Low power consumption: < 0.1W
Gross Weight	2.93 KG (6.50 lb) (with packages)
Product Dimensions	1 DIN Front panel: 190 mm × 60 mm (7.5'×2.4') Rear panel: 180 mm × 50 mm (7.1'×2.0') Depth:190mm (7.5')
Packaging Dimensions	308 mm × 293 mm × 123 mm (12.1'×11.5'×4.8') (L × W × H)
Operating Temperature	-30°C to +70°C (-22°C to +158°C)
Operating Humidity	10% − 90%
Operating Altitude	5000 m
Installation	Assembled before leaving the factory/bracket
Certifications	CE\FCC\EN50155\ISO7637-2\ISO16750\BIS

Compatiblity

HDD compatiblity	MQ01ABD050V/MQ01ABD100V/WD20SPZX
SSD compatiblity	S820GS512G/S820GS1TB/ZA1000CM1A003

Dimensions (mm[inch])