

MXVR1004-I(SSD)

4 Channels H.265 Penta-brid AI Mobile Video Recorder



System Overview

MXVR1004-I(SSD) 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 can support 1080P high-definition real-time recording, real-time vehicle location tracking and monitoring. All the information such as GPS and video can be uploaded via wireless network: 3G/4G.

It has already passed EN50155/ISO16750 in order to meet the requirements of mobile use. This device can be used in 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/

Embedded with 3G/4G 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.

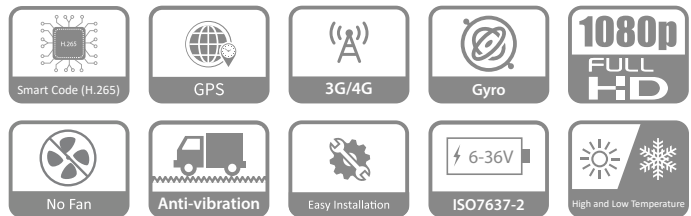
GPS

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.

- Supports 4-ch 2MP analog cameras and 1-ch 2MP IP camera input
- Supports H.265/smart H.265 video compression
- Supports 2 SD cards (up to 256 GB for each) and 1 SSD (up to 1 TB)
- Supports DSM/ADAS/BSD
- Multiple network monitoring: Web viewer, Mobile Center & DMSS



Technical Specification

System

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

Video and Audio

Analog Camera Input	4 HDCVI/AHD/TVI/CVBS cameras, up to 1080P resolution (Audio input is not supported when connecting AHD/TVI/CVBS cameras)
IP Camera Input	1 IP camera, up to 1080P resolution
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 Output resolution: 800×600
Display Split	1/4/6
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
Browser	Google, PCAPP, IE9 or newer, Firefox

AI

ADAS	Alerts for forward collision, lane departure and vehicles distance too close.
DSM	Supports detection of drowsy driving, distracted driving, calling while driving, no driver, wearing IR blocking sunglasses, smoking when driving and lens tampering.
BSD	Blind Spot Detection

Update

Device Update	WEB, USB, remote platform, upgrade tool
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Recording Playback

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

Storage

SD card	2 (up to 256 GB for each)
SSD	1 (up to 1 TB)

Alarm

General Alarm	Motion detection, video tampering and loss, local alarm, camera offline, manual alarm control, DSM, ADAS and BSD alarm
Anomaly Alarm	No HDD, HDD error, insufficient capacity, illegal login, ACC off, high temperature, rollover, battery low voltage, over speed, low speed, collision, rapid 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.
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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	7 channels in total, 6 channels for alarm input, 1 channel for pulse speed measuring
Alarm Output	2 channels in total, 1 channel for controllable 12V alarm output, 1 channel for relay signal output
RS-232	1
RS-485	1

USB	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0 from EXTEND port
Pulse Count	1
Satellite Positioning	GPS/GLONASS
Network Port	1 × 10M/100M RJ45 (rear panel)

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	6.7W (without peripheral) Low power consumption: < 0.1W
Gross Weight	2.83 KG (6.24 lb) (with packages)
Product Dimensions	138 mm × 160 mm × 49 mm (5.4' × 6.3' × 2.0') (L × W × H)
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 °F to +158 °F)
Operating Humidity	10% – 90%
Operating Altitude	5000 m
Installation	Bracket
Certifications	CE\FCC\EN50155\ISO7637-2\ISO16750\BIS

Dimensions (mm[inch])

