

DHI-DAE-MXVR8212-GFWI

12 Channels H.265 2 HDD/SSDs AI Mobile Video Recorder



- Supports 8-ch analog cameras and 4-ch POE IP cameras.
- Supports H.264/H.265 video compression.
- Supports DSM/ADAS/HOD/BSD/ANPR/Face Recognition.
- Supports two pluggable 2.5" HDDs/SSDs, adopting anti-vibration design.
- Supports CVBS/VGA/coaxial HD output.
- Built-in GPS, 4G and Wi-Fi modules.
- Supports 6-36V DC wide-range power input

System Overview

Mobile AI series products are equipped with the most advanced AI technologies, it can provide higher flexibility and accuracy on people and vehicles' recognition. With the help of deep learning algorithms, it is possible to offer various advanced applications such as DSM, ADAS, BSD, HOD, ANPR, Face Recognition, and Passenger Flow Counting, which really means a lot to our end-users.

Functions

Mult-channel Algorithms

Highly integrates intelligent algorithm function and supports ADAS, DSM, BSD, HOD, ANPR, Face Recognition, and Passenger Flow Counting.

Analog Audio

Supports analog audio interfaces and can connected third-party (AHD/CVBS) pickup cameras, making it convenient for customers to carry out project renovation.

Multiple Video Output Ports

Supports CVBS/VGA/coaxial HD output.

4G/Wi-Fi

Embedded with 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) via 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 network recovered and the vehicle can be tracked on the E-map of VMS.

Technical Specification

Audio and Video

Video Input	12 (8-ch analog + 4-ch PoE IPC)
Video Compression	H.265/smart H.265/H.264/smart H.264
Dual-stream	Support (up to D1 encoding for sub stream)
Encoding Capacity	Main stream: 1080P/720P/960H/D1/CIF Sub stream: D1/CIF
Frame Rate	PAL: 1-25 fps NTSC: 1-30 fps
Video Output	1-ch VGA (M16 10-pin aviation connector) 1-ch CVBS (M12 4-pin aviation connector) 1-ch coaxial HD (M12 7-pin aviation connector) Output resolution: 800×600/1280×1024
Multi-screen Display	1/4/8/9/16 split screens
Audio Compression	G.711A/G.711U/PCM/G726

Network

	Eurasian Version	Latin American Version
Band	LTE-FDD: B1/3/5/7/8/20	LTE-FDD: B1/2 /3/4/5/7/8/28
	LTE-TDD: B38/40/41	LTE-TDD: B40
	WCDMA: B1/5/8	WCDMA: B1/2/4/5/8
	GSM/EDGE: B3/8	GSM/EDGE: B2/3/5/8
Tx Power	Frequency Bands	Max. Tx Power
	GSM850/EGSM900	33 dBm ±2 dB
	DCS1800/PCS1900	30 dBm ±2 dB
	WCDMA bands	23 dBm ±2 dB
	LTE bands	23 dBm ±2 dB
Wi-Fi Frequency	2.4 GHz	
Wi-Fi Protocol	802.11 b/g/n	

AI	
DSM	Supports drowsy driving, distracted driving, calling, no driver, wearing IR blocking sunglasses, smoking, lens tampering, and unbelted alarms.
ADAS	Supports Lane Departure Warning, Forward Collision Warning and Headway Monitoring Warning.
BSD	Supports human, motor vehicle, and non motor vehicle detection and warning.
HOD	Supports detection of hands off steering wheel, playing with phone, and unfasten seat belt.
ANPR	Supports recognition of license plate, vehicle color and vehicle brand.
Face Recognition	Supports face attribute detection and face comparison.

Satellite Positioning	GPS & GLONASS
General	
Power Supply	6–36 VDC
Power Consumption	≤12W (without any peripheral) Standby: ≤0.1W Full load: ≤80W
Operating Temperature	-30°C to +70°C
Operating Humidity	10%–90%
Dimension	180 mm × 190 mm × 50 mm (7.0" × 8.7" × 2.0")
Weight	3.2 kg (7.05 lb)
Installation	Embedded or bracket installation

Recording Playback

Recording Priority	Manual recording > alarm recording > motion detection recording > Timed recording
Recording Playback	1/4 channels
Backup	HDD/SSD, USB flash drive and network backup

Storage

HDD/SSD	2 × 2.5" HDD/SSDs (up to 2TB for each)
Heat Dissipation	Built-in fan cooling
SD Card	1 (up to 512G)

Alarm

General Alarm	Motion detection, video loss, video tampering, local alarm, camera offline
Abnormal Alarm	No HDD, HDD error, insufficient capacity, illegal login, battery low voltage, high temperature, rollover, collision, over speed, low speed, rapid turn, rapid speedup, sharp brake, network security exception, ACC off
Alarm Linkage	Log, record, snapshot, tour, buzzer, email, alarm output

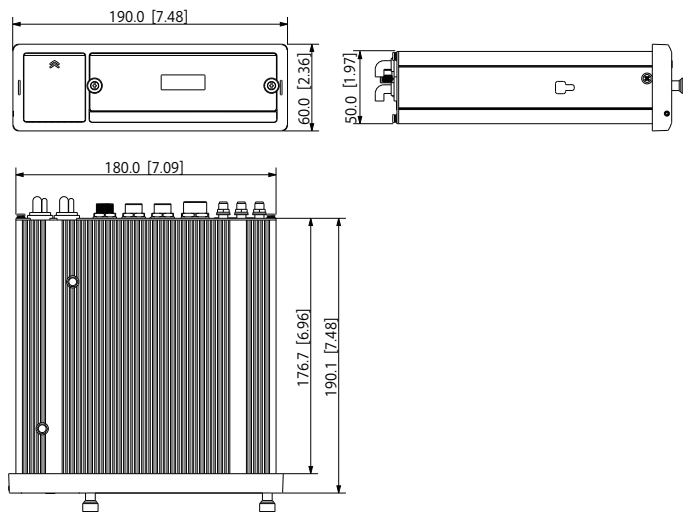
Sensor

Gyroscope	Built-in gyro, supports rollover, collision, sharp acceleration/deceleration/turn.
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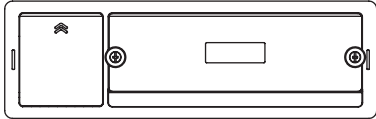
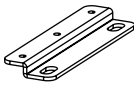

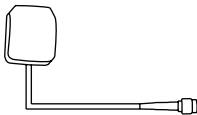
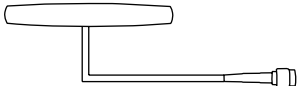
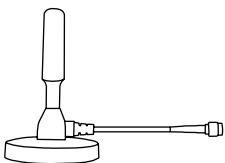


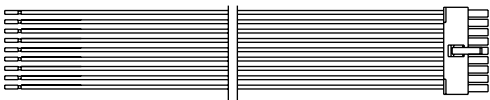
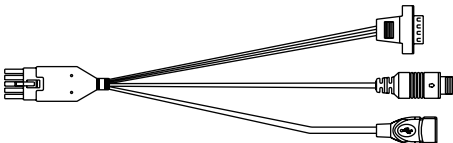
External Interface

Alarm Input	9 channels (Alarm 1–8 are local alarm input, Alarm 9 is pulse input)
Alarm Output	2 channels (1 relay out, 1 controllable 12V 0.75A out)
Audio Talk	Support
Pickup	1-ch (the audio can be overlaid on the first analog channel)
RS-232	3
RS-485	2
CAN	1
USB Port	Front panel: 2 × USB 3.0 Rear panel: 1 × USB 2.0 integrated in EXTEND port
Network Port	1 × 100M/1000M RJ45

Dimensions (mm[inch])



Packing List

Figure	Name	Quantity
	Device	1
	Lug	2
	Key	2
	GPS antenna	1
	4G antenna	1
	Wi-Fi antenna	1
	Accessories bag	1
	Network port waterproof connector	1
	Alarm signal connector	1
	Extend port connector	1

Peripheral Connection

