MVR-616H8

16CH H.265 Hybrid Mobile Digital Video Recorder

www.vipro.com.tw

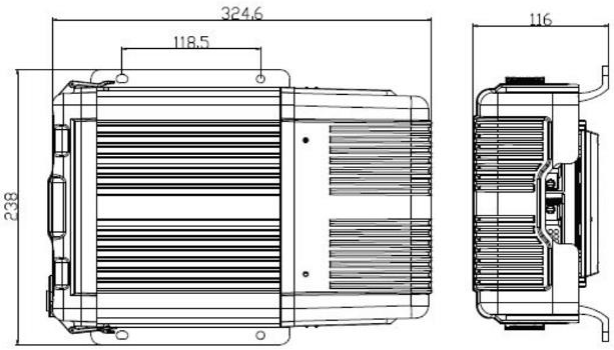
MVR-616H8 is an advanced and feature-rich 16CH Hybrid Mobile Digital Video Recorder for vehicle surveillance and intelligent dispatch. Adopting high-speed processor of H.265 codec, network and GPS positioning technology, MVR-616H8 also supports dynamic coding technology to adjust the dynamic change of 4G/3G network bandwidth and ensure the fluency of monitoring video. It can realize 1080P and 720P high definition, vehicle travel information recording and remote video upload. With center software it achieves alarm central monitoring, vehicle intelligent dispatching management and playback analysis. It is powerful with anti-vibration and full metal design, flexible installation, easy maintenance and high reliability.

Key Features

- Support 8CH IP Camera + 8CH AHD Camera
- Modular design for easy maintenance
- Anti-vibration design for 360 degree installation
- Support 2.5” HDD storage and SD card for mirror recording
- Triple stream technology
- Built-in GPS for location tracking
- Built-in 3G/4G for live view and remote management
- Built-in WIFI for video files and alarm files download
- 24-hour single-file recording mode
- E-MARK certified

Dimensions

(unit: mm)

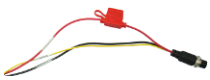


Standard Accessories

Vehicle fuses (7.5A & 15A) x 2

MDVR key x 1

9 pin aviation power input wire x 1



7 pin aviation amplifier output wire x 6

Technical Specifications

Product series		MVR-616H8
Overview		Preview, Record, Playback, Network, Locate
System	OS	Linux 3.18.20
	Control Mode	Mouse, Network, Easy Check, Control Panel
Video	Input	8 channels IPC + 8 channels AHD
	Output	1 channel CVBS, 1 channel VGA (1080P/720P)
	Total Resource	8x 1080P@30fps (IPC) + 8x 720P@30fps (AHD); 8x 1080P@30fps (IPC) + 8x 1080P@15fps (AHD)
	Video Signal Standard	Electrical level: 1Vpp Impedance : 75Ω NTSC/PAL Optional
Audio	Input	8 channels
	Output	2 channels
	Audio Signal Standard	Electrical level: 2Vpp Input impedance: 4.7kΩ
Display	Display Split	1/4/9
	OSD	Locate, alarm, vehicle number, speed, date/time
	Operation	Graphical User Interface
Recording	Video/Audio Compression	Video: H.265/H.264 Audio:ADPCM, G.711U
	Image Resolution	PAL:1080P, 720P, WD1(928x576), WHD1(928x288), WCIF(464x288), D1(704x576), HD1(704x288), CIF(352x288) NTSC:1080P, 720P, WD1(928x480), WHD1(928x240), WCIF(464x240), D1(704x480), HD1(704x240), CIF(352x240) Digital: 1080P (1920x1080), 720P(1280x720)
	Image Quality	1~8 levels adjustable (1 is the best)
	Record Mode	Boot up/Manual/schedule/Alarm (sensor trigger, speed, acceleration, video loss, alarm button)
	Pre-recording	0 ~ 60 minutes
	Post-recording	0 ~ 30 minutes
	Mirror Record	Yes
Playback	Playback	1/4/9 channels by local playback (single channel main stream, multi-channel sub stream); support 1/4/9 channel synchronous playback on Web
	Search Mode	Date/time, channel, event
Network	Ethernet	LAN: RJ45 port (1000M/100M), without light WAN: RJ45 port (1000M/100M), without light
	Wi-Fi	802.11b/g/n (optional)
	3G/4G	EVDO/WCDMA/TDD-LTE/FDD-LTE
Locating	GPS	location tracking, speed detection and sync time
Sensor	G-Sensor	Built-in 6-AXIS inertia sensor
Storage	Hard Disk	2x 2.5” SATA HDD or SSD (compatible with 7mm / 9.5mm / 15mm, HDD heating supported)
Interface	USB	1x USB2.0 (Type A), 1x USB2.0 (Type B)
	SD	1x SD card slot
	SIM	1x SIM card slot
	Sensor	8 inputs, 2 outputs
	Serial	2x RS232, 2x RS485, 2x CAN ports
	Speed	1 channel pulse speed detection
	Panel	CP4/CP5 (The multi-functional panel) optional
Electrical	Input	DC8~36V, ACC
	Output	12V@500mA, 5V@500mA
	Power Consumption	Maximum: 80W Standby: ≈0W
Mechanical	Dimension	324.6 x 238 x 116mm / 12.78” x 9.37“ x 4.56”
	Weight	4.2kg / 9.26lbs
Environmental	Temperature & Humidity	-40℃~70℃ / -40℉~158℉(with heater) -40℃~85℃ / -14℉~158℉(storage) @ RH 8%~90%

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Optional Accessories

GPS Module and Antenna

GPS data can be recorded into MDVR video files for playback and reported to CMS for real time vehicle positioning.


3G/4G Module and Antenna

Realize 3G/4G cellular network connectivity for Mobile DVR for live remote video streaming and alarm notification.


WIFI Module and Antenna

Multi-channel wireless network device applied for Mobile DVR on video download and data transfer.

4Pin Male-Female Din-jack Cable

Din-aviation cables are used for MDVR installation in the vehicle. 4 pins (video/audio/ground/power) can provide the power for cameras. Available in different lengths (1.5m,3m,5m,7m,9m,11m,13m,15m,20m or customized) to suit all kinds of vehicle installation.

RS232 Signal Input Wire

RS485 Signal Input Wire

Alarm Button Wire

9 Pin Alarm Wire

4 Pin CANBUS

Control Panel (CP4, CP5)

The multi-functional Control Panel used for Bus Dispatch System, featuring built-in amplifier, RFID, 7 inch & 10 inch LCD, station announcement.


Interphone & cable


Easy Check

A device management software running on Android tablet, allowing user to manage the MDVR conveniently via the software in WIFI environment, thus improving working and maintenance efficiency.

UPS (Uninterrupted Power Supply)

A high-performance back-up power solution, using internal electronic circuit to measure, calculate and storage battery data, which makes the use and management of power supply more predictable.

Fireproof Box

Specially designed for anti-fire and anti-explosion to protect the video files in the last minutes of the accidents with built-in 32GB memory.

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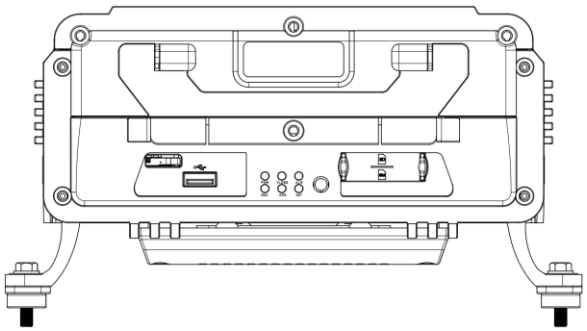
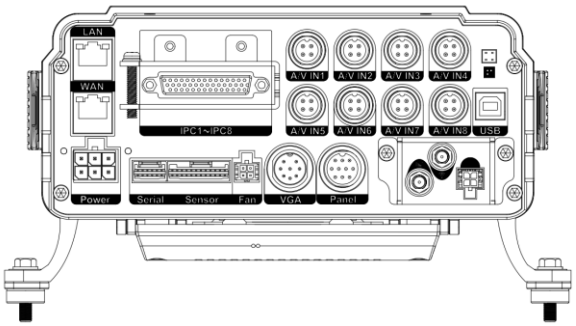
Front Panel



Rear Panel



Storage Capacity Calculation

① **Image Quality and Stream**

Resolution	Image quality	1	2	3	4	5	6	7	8
Stream (Kbps)	720P	6144	4800	4128	3456	2784	2112	1440	768
	WD1	2662	1997	1599	1331	1170	1040	936	832
	WHD1	1664	1248	998	832	728	650	585	520
	WCIF	1040	780	624	520	455	405	364	325
	D1	2048	1536	1230	1024	900	800	720	640
	HD1	1280	960	768	640	560	500	450	400
	CIF	800	600	480	400	350	312	280	250

② **Record File Size Calculation**

Each channel record file size:

Recording time (s) x Stream (Kbps) / 8 / 1024 = File Size (MB)

For instance, the file size of the image 1 at D1 resolution within 1 hour:

3600 x 2048 Kbps / 8 / 1024 = 900 MB

③ **Image Quality and Resolution**

Resolution	Image quality	1	2	3	4	5	6	7	8
Record (MB)	720P	2700	2109	1814	1518	1223	928	632	337
	WD1	1170	878	702	585	514	456	411	365
	WHD1	731	549	438	365	320	285	257	229
	WCIF	456	343	274	229	199	178	160	143
	D1	900	675	540	450	395	351	316	281
	HD1	562	422	337	281	246	219	198	176
	CIF	351	264	211	176	153	137	123	110