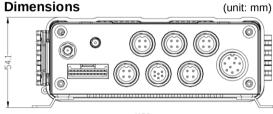
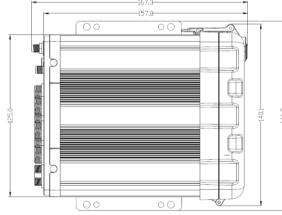


Key Features

- 4CH AHD + 1CH 720P IP
- Dual SD card record (256GB max.)
- Excellent vibration performance
- Modular design for easy installation/maintenance
- GPS positioning and Geo-fence •
- 3G/4G connection for live view & remote management
- WIFI automatic file download
- Power-off & surge protection, wide voltage input
- Durable in harsh temperature (-40°C~+70°C)
- Data recovery technology
- IP54 waterproof •

Dimensions





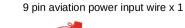
Standard Accessories

Remote control x 1 Vehicle fuses (7.5A & 15A) x 2









MDVR key x 1



*MVR-215A can be built in with GPS+3G/4G or GPS+WIFI modules.

Ultra-reliable HD hybrid performance coupled with everything you need for Mobile Video Security Management.

MVR-215A is an intelligent 5CH Hybrid Mobile Network DVR tailor-made for vehicle video surveillance. Incorporating embedded Linux O/S and high-speed processor, MVR-215A features GPS positioning, Geo-fence alarm, 3G/4G cellular network connectivity for realtime remote monitoring, vehicle travel information recording and wireless data upload. MVR-215A supports dual SD card record in 720P, AHD, WD1, D1 and CIF formats. Its compact and rugged design allows flexible installation and easy maintenance while ensures reliability in harsh vehicle surveillance environment.

Technical Specifications

-	pecifications	MV/D 215A
Product series		MVR-215A
Overview	05	Preview, Record, Playback, Network, Locate
System	OS Control Modo	Linux 3.0.8
-	Control Mode	Mouse, Network (3G/4G/WIFI), Easy Check, CP4
	Input	4 channels AHD + 1 channel 720P 1 channel
	Output	100/120fps @ WD1 + 30fps @ 720P IPC or
Video	Total Resource	60fps @ AHD + 30fps @ 720P IPC
	Video Signal	Electrical level: 1Vpp
	Standard	Impedance : 75Ω NTSC/PAL Optional
	Input	5 channels (1 channel IPC audio input)
Audio	Output	1 channel
Audio	Audio Signal	Electrical level: 2Vpp
	Standard	Input impedance: 4.7kΩ
	Display Split	1/4/9
Display	OSD	GPS information, alarm, vehicle number, speed,
Display	030	date/time
	Operation	Semi-transparent GUI
	Video/Audio	Video: H.264
	Compression	Audio:ADPCM, G.711A, G.711U
		Analog: PAL: 720P(1280x720), WD1(928x576),
		WHD1(928x288), WCIF(464x288), D1(704x576),
	Image	HD1(704x288), CIF(352x288);
	Resolution	NTSC: 720P(1280x720), WD1(928x480),
Descular		WHD1(928x240), WCIF(464x240), D1(704x480),
Recording		HD1(704x240),CIF(352x240);
	Image Outlite	Digital:720P(1280x720)
	Image Quality	1~8 levels adjustable (1 is the best)
	Record Mode	Boot up/Manual/schedule/Alarm
	Pre-recording	$0 \sim 60 \text{ minutes}$
	Post-recording Mirror/Dual	0 ~ 30 minutes
	record	Support
	Playback	1 channel by local playback
Playback	Channel	i chamier by local playback
. lag balan	Search Mode	Date/time, channel, event
	IPC Ethernet	6-pin M12 (10/100M x 1, PON power supply)
Network	WIFI*	802.11b/g/n
	3G/4G*	EVDO/WCDMA/TDD-LTE/FDD-LTE
Locating	GPS*	location tracking, speed detection, and sync time
Storage	SD card	SD Card x 2 (up to 256GB capacity)
	USB	USB 2.0 x 1
	SIM	SIM slot x 1
Interface	RS232	RS232 x 1
	Sensor	8 inputs, 2 outputs
	Speed	1 channel pulse speed detection
	Intercom	1 MIC interface
	Panel	CP4 (The multi-functional panel)*
	Input	DC8~36V, ACC
Electrical	Output	5V@1000mA
	Power	29W (Maximum), ≈0W (Standby)
	consumption	
	Waterproof	IP54
Mechanical	Dimension	167.3x146.3x54.1mm/6.58"x5.76"x2.13"
	Weight	0.83.kg / 1.83lbs
Environmental	Operating	-40°C~+70°C / -40°F~+158°F (with heater)
	Temperature	-10°C~+70°C / -14°F~+158°F@ RH 8%~90%
PC Software		VMS 2.0
Certifications	EU / USA	CE, FCC
*) Optional functio	nc	

/iPRO

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.



Serial Expansion Box

Integrate the interface of RS-232 and RS485 to realize the serial communication between external device and MDVR.



Serial Transform Cable



Alarm and I/O Cable



6pin Aviation head to RJ45 Cable



A/V Out Cable



Amplifier & Speaker Transform Cable



6-Axis Sensor (G-force Sensor)

Determine a vehicle sharp turns, braking, intense bumps, rollover, fast changing lanes, S deformation tract and other bad driving habits by the detecting module and correct these bad behaviors via management system.



CP4 Control Panel

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



LED Display Panel

Designed for easier checking of Mobile DVR working status. Any of the LED flash will indicate the corresponding status.



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 mainteniance 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.



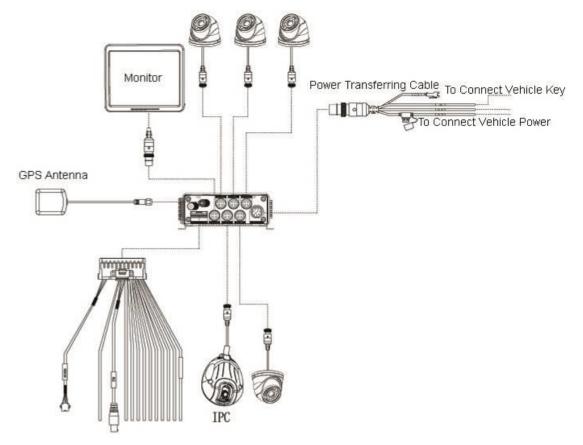
Back Cover



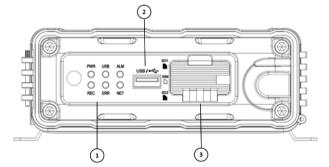


MVR-215A 5CH AHD Hybrid Mobile DVR

System Diagram



Front Panel



- 1. Status LED 2. USB port 3. Dual SD card and SIM slot
 - O PWR Power indicator lamp: Blue
 - \bigcirc ALM \qquad Alarm indicator lamp: Red when alarm triggerred, or light off.
 - \odot REC \qquad Record indicator lamp: Green when HDD or SD is recording.
 - $\odot~\mbox{ERR}$ $~~\mbox{Error}$ indicator lamp: Red when SD card works abnormally.
 - NET Network indicator lamp: Green when there is 3G/4G module, otherwise, it is light off. It flashes when there is network.

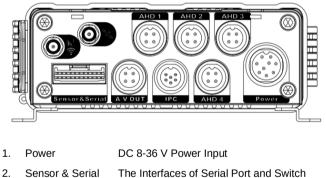
Rear Panel

3.

4.

5.

6.



- AHD 1~4Audio & Video Input 1-4A/V OUTAudio & Video Output
- IPC The Interface of PON Power Supply
- GPS Antenna Interface
- 7. 3G/4G/WIFI Antenna Interface

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