

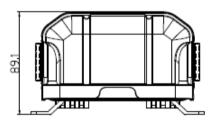
Key Features

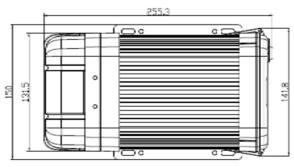
- 2CH WD1 + 4CH 720P IP in real time
- Rugged metal and modular design
- Excellent vibration performance
- 2.5" HDD storage and SD card mirror record
- Dual streams for local recording and wireless transmission
- GPS* for location tracking and Geo-fence
- 3G/4G* for live view and remote management
- WIFI automatic file download
- Power-off & surge protection, wide voltage input
- Durable in harsh temperature (-40°C~+70°C)

(*) Optional functions

Dimensions

(unit: mm)





Standard Accessories

Vehicle fuses (7.5A & 15A) x 2

MDVR key x 1





9 pin aviation power input wire x 1



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

MVR-606-4IP is an advanced 6CH Hybrid Mobile Digital Video Recorder specially tailor-made for remote vehicle video surveillance solution. Incorporating embedded Linux O/S, high-speed processor and the latest H.264 video compression technology, MVR-606-2IP features built-in G-sensor, GPS positioning, Geo-fence alarm, 3G/4G cellular network connectivity, vehicle travel information recording and wireless data upload. With center software it also achieves alarm linkage central monitoring, remote management and playback analysis. Its modular and rugged design allows flexible installation and easy maintenance while ensures high reliability in harsh vehicle surveillance environment.

Technical Specifications

Product series		MVR-606-4IP					
Overview		Preview, Record, Playback, Network, Locate					
Systom	OS	Linux 3.0.8					
System	Control Mode	Mouse, Network, Easy Check, CP4					
	Input	2 channels WD1 + 4 channels 720P					
	Output	1 channel					
Video	Total Resource	50/60fps @ WD1 + 120fps @ 720P					
	Video Signal	Electrical level: 1Vpp					
	Standard	Impedance : 75Ω NTSC/PAL Optional					
A It's	Input	6 channels (incl. IPC x 4)					
Audio	Output Audio Signal	1 channel Electrical level: 2Vpp					
	Standard	Input impedance: 4.7kΩ					
	Display Split	1/4/9					
B: 1		GPS information, alarm, vehicle number, speed,					
Display	OSD	date/time					
	Operation	Semi-transparent GUI					
	Video/Audio	Video: H.264					
	Compression	Audio:ADPCM, G.711A, G.711U					
		Analog:					
	Image	PAL:WD1(928x576),WHD1(928x288),WCIF(464x288), D1(704x576),HD1(704x288), CIF(352x288)					
	Resolution	NTSC:WD1(928x480).WHD1(928x240),WCIF(464x240),					
	resolution	D1(704x480),HD1(704x240), CIF(352x240)					
Recording		Digital:720P(1280x720)					
3	Image Quality	1~8 levels adjustable (1 is the best)					
	Record Mode	Boot up/Manual/schedule/Alarm (sensor trigger, speed, acceleration, video loss, temperature)					
	Pre-recording	0 ~ 60 minutes					
	Post-recording	0 ~ 30 minutes					
	Mirror/Dual Recording	Yes					
Playback	Playback Channel	1 channel by local playback					
	Search Mode	Date/time, channel, event					
	Ethernet	RJ45 port (100M) x1					
Notwork	IPC Ethernet	6-pin DJ (100M x 2, PON power supply)					
Network	WIFI 3G/4G	802.11b/g/n (optional) EVDO/WCDMA/TDD-LTE/FDD-LTE					
	30/40	(single module supported) (optional)					
Locating	GPS	location tracking, speed detection and sync time					
Storage	Hard Disk	2.5" SATA HDD x 1 (up to 2TB)					
	USB	USB 2.0 x 2 (1 for mirror record, 1 for easy check)					
	SD	SD x 1					
	RS232/RS485	RS232 x 2 / RS485 x 2					
Interface	Sensor	8 inputs, 2 outputs					
	Serial	G-sensor (internal)					
	Speed	1 channel pulse speed detection					
	Panel	CP4 (The multi-functional panel) optional					
Electrical	Input	DC8~36V 12V@1A, 5V@1A					
	Output Dimension	255.3 x 150 x 89.1mm / 10.05" x 5.906" x 3.508"					
Mechanical	Weight	2.2kg / 4.85lbs					
En in a	Operating	-40°C~+70°C / -40°F~+158°F (with heater)					
Environmental	Temperature	-10°C~+70°C / -14°F~+158°F@ RH 8%~90%					
Others	Waterproof	IP54					
PC Software		VMS 2.0					
Certifications	EU / USA	CE, FCC					

6CH Hybrid Mobile Digital Video Recorder

Optional Accessories

GPS Module and Antenna

GPS data can be recorded into MDVR video files for playback and reported Determine a vehicle sharp turns, braking, intense bumps, rollover, fast 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 Connection Box

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



Serial Alarm Cable



6pin Aviation head to RJ45 Cable



6-Axis Sensor (G-force Sensor)

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.



HDD Reader

For playback recorded footage on PC



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.



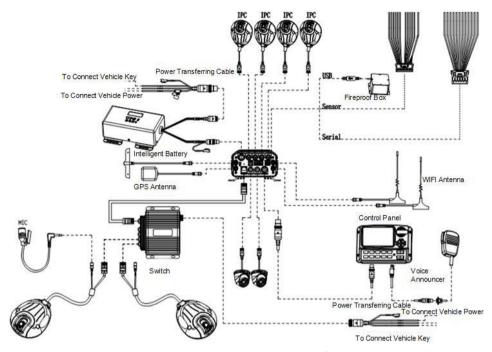
Fireproof Box

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.

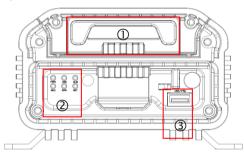


6CH Hybrid Mobile Digital Video Recorder

System Diagram



Front Panel



1. HDD module 2. Status LED 3. USB port

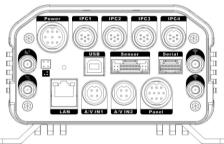
O PWR Power indicator lamp: Blue

ALM Alarm indicator lamp: Red when alarm triggerred, or light off.
 REC Record indicator lamp: Green when HDD or SD is recording.
 ERR Error indicator lamp: Red when hard disk 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

1.



Power DC 8-36 V Power Input

. Sensor & Serial The Interfaces of Serial Port and Switch

3. A/V IN 1~4 Analog Audio & Video Input 1-4

4. IPC1~2 PON Power Supply IP1~2

5. SPS/BD Antenna Interface

6. 3G/4G Antenna Interface

7. WIFI Antenna Interface8 USB USB USB 2.0 Interface

9 LAN Network Interface

10 Panel Control Panel Interface (CP4)

SATA HDD Support List

Brand	Model	Capacity		
	WD5000LUCT	500G		
	WD3200BUCT	320G		
Mostorn Digital	WD10JUCT	1TB		
Western Digital	WD10SPCX	1TB		
	WD3200LPVX	320G		
	WD3200BPVT	320G		
	MQ01ABF032	320G		
Toshiba	MQ01ABF050	500G		
	MQ01ABD100	1TB		

^{*}The above are recommended, but most SATA HDDs should work with 2TB max.

Brand	Model	Capacity		
	ST1000LM024	1TB		
	ST500LM012	500G		
Composition	ST320LM001	320G		
Samsung	ST2000LM003	2TB		
	HN-500MBB	500G		
	HN-M101MBB	1TB		
0.000	MZ-7WD480HCGM-00003	480G		
Samsung SSD	MZ7WD480HAGM-000H3	480G		
Coordo	ST500LT012	500G		
Seagate	ST500VT000	500G		

6CH Hybrid Mobile Digital Video Recorder

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	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
(MB)	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