

4/8CH Million Pixels SD Mobile DVR



Introduction

The manual is about the features and specifications of one kind of car DVR, it is an integration of “4 monitoring and recording”, “Million Pixels Digital&Analog mixed car DVR”, “wireless data transmission”.

In the manual it describes the functions and considerations of the modules, the connector signal definitions in the back panel, the interface definition and user's operations. More details, please check following directory.

State:

This manual may exist any technical describe inaccurate or misprint, also the contents will be update unscheduled without notice, new contents will be added in next version;

We're subject to improve or update product description or program, if any difference, all depend on real goods, please understand.

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1 Parts list

No	Name	Quantity	Unit	Device Type		
				Basic	Basic+GPS/BD	Basic+Gps/BD+3/4G
1	MDVR	1	set	✓	✓	✓
2	Remote Control	1	pcs	✓	✓	✓
3	Power input wire	1	pcs	✓	✓	✓
4	AV input wire	4	pcs	✓	✓	✓
5	AV output wire	1	pcs	✓	✓	✓
6	Keys	2	pcs	✓	✓	✓
7	GPS antenna	1	pcs	✗	✓	✓
8	3G/4G antenna	1	pcs	✗	✗	✓
9	8CH patch cord	4	pcs	✓	✓	✓
10	Specification	1	pcs	✓	✓	✓
11	Guarantee	1	pcs	✓	✓	✓
12	Certification	1	pcs	✓	✓	✓

Profile Display:



2 Product introductionProduct features

H.264 Compression Mode, Support 4CH real-time 960P Million Pixels AHD input and Analog Standard Definition camera input, or 2CH HD input + 2CH SD input; Exclusive pre-allocate DVR

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Special File System Technology,Solving repeatedly wipe cause file fragmentation, solving SD card file system collapse, data loss and cannot find SD card and file garbled, ensure the integrity of the data.
8-33V Adaptive Wide Voltage input, Super Low Power Consumption Design; **SD card storage** (maximum support two pieces 128GB SD card.) It can be completely resist car Vibration,Dust and others cause data corruption; **Support GPS/BD/G-SENSOR ; High Reliability Aviation plugs**,High Cost Performance with reliable stability,simple and clear operation menu .

- **HIS Solution**,H.264 Compression Mode, Many stream recording,4CH Video+2CH Audio Input, Compatible with **4CH 960P Mega Pixels Analog High Definition Camera input /2CH AHD High Definition + 2CH Standard Definition mixed input / 4CH Analog Standard Definition Camera input.**
- Real-time HD Video Recording, 960P/D1/HD1/CIF for Optional,Adjustable Frame Rate Quality.
- **Professional Power Design for all kinds of Vehicles, 8-36V DC; Wide Voltage**, Over-load,Over-voltage,Short Circuit,Reverse Protection,Suitable for all kinds of vehicles.
- Support DC 12V/2.5Amp output, it can offer power for cameras,mini monitor and some peripheral device.
- **HDD + SD card Data record storage (maximum support 2TB 2.5" hard disk and 128GB SD card.)** It can be completely resist car Vibration,Dust and others cause data corruption;
- Watchdog Abnormal will trigger Restart Protection Function . It can better protect Device and Video.
- **Exclusive pre-allocate DVR Special File System Technology**,Solving repeatedly wipe cause file fragmentation, and ensure the integrity of the data.
- **By accidents power-off protection function.**Unique UPS Technology ensures the integrality of record when power failure occurs,even can for 10-15s.
- Flame out Time-lapse Video Recording Function (Highest support long delay time 24 hours.)
- Auto Recording,Time Recording,Alarming Recording Modes for Different Request.
- Display vehicle traffic status, Vehicle numbers ,Route, Super-low speed vehicle Information, Convenient management.
- Support GPS/BD,G-sensor Modules Extension.
- **3channels RS232 +2channel RS485.**
- Superior network function, can configure menu through IE, support mobile SMS to configure parameters and obtain device information.
- Support Video&Audio monitoring,2-way Intercom, PTZ control, manually Alarm,Overspeed,Geo Fence etc through remote control platform
- **8CH alarm inputs** (Doors, lights, steering, braking, reversing and all types can be configured), Can support kinds of response linkages.
- **2CH alarm output**, Support the linkage acousto-optic alarm, cut off fuel oil/power,etc .
- Support Local Auto-photo when alarm input,device pictures preview function;
- All Aviation plugs, Super stable, High Anti-shock,Easy installation Plug in and out.
- Unique WINDOWS 8 interface, Easily Smart GUI Interface, Fluent system interface is intuitive and perfect.
- **Support SD card Remote Software Upgrade/OTA remote upgrade automatically**, partition backup technology upgrade don't crash.
- Can be batch functional customization according to customer's requirements;

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➤ Dimension and Weight Dimension : 112(W) x36(H) x138(D) mm , Weight: 360g

1.2 Main Functions

Main	Sub-Item	Instructions
Recording Sub-System	Video Channel	4/8Channel video + 4Channel Audio recording synchronously;
	Resolution	Support 4/8*960P(1280*720),4/8*D1(704*576),4/8*HD1(704*288), 4/8*CIF (352*288) ; Each channel is individually adjustable.
	Image Quality	0-7 levels, 0 is the highest level.
	OSD	Overlays information such as date time and vehicle ID
	Loop Rec	Support SD card loop recording, loop cover previous video
	Record Mode	Timed recording, alarm trigger recording and manual recording
	Preview	Support 1 channel and 4 channels preview. Support enlarge video image when alarm trigger and video rear view trigger;
	Disk overwritten	Space pre-allocated Support disks overwritten function.
Playback System	Video Search	Search video files anytime per day, type(n/a)
	Playback	Support 1 to 4/8 channels playback.
		Support forward and backward play at the speed of: x2 ,x4,x8,x16.
		Support alarm spot search and time search.
GUI	Graphical User Interface	Setup system parameters with the remote control.
Alarm	Input	8 channels electrical level alarm input for optional
		Alarm linkage recording\Active request the intercom\One-key phone calling functions,etc.
	Output	Max support 2ch level output
Optional functions	GPS Positioning	Built-in GPS/BD module: can sync record GPS information, trace replay.
	PTZ Control	Support Pelco-D protocol 485 PTZ remote/local control,preset.
	Serial Expand	Support LED Advertisement Panel\Oil Sensor\POS\Bus Station Broadcaster\Car OBD,ect.external devices.
	G-Sensor	G-sensor,Record vehicle real-time status.
	TTS Voice Broadcast	Support TTS voice broadcast function.
	Network	Can expand WIFI module,support 801.2b/g/n, 801.2a/c
		Built-in EVDO/WCDMA/TD-LTE/FDD-LTE,etc, 3G/4G module.
Others	ON/OFF	System delay-time power on/off;
	File System	DVR special file recording System Technology,Exclusive car record file system,space pre-allocate,4ch single file Record,cyclic covering; To avoid the storage of the media causes file fragments, with high reliability and high stability;

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1.3 Parameter Sheet

Item		Parameter
OS		Linux
Language		Chinese/English/Others (can be customized)
Video Compression		H.264 Compression Mode
OSD		Overlays information such as date time and vehicle ID
GUI	Graphical User Interface	Can connect to external LED screen. Setup system parameters with the remote control.
Video Record System	Video Input	4/8CH 960P AHD/ 4/8CH standard definition /2/4CH high definition+2/4CH standard definition mixed video input ,aviation plug.
	Video Output	1CH CVBS+ VGA output for optional, 1.0Vp-p, 75Ω, aviation plug.
	Preview	Support 1 channel and 4 channels preview.,Support Manual/Alarm Trigger full screen preview
	Resolution	960P/D1/HD1/CIF, MAX:4/8channels of 960P
	Video Quality	0-7 levels, 0 is the highest level, 7 is the lowest level.
	Video Standard	PAL: 100f/s , CCIR625 line,50field; NTSC: 120f/s, CCIR525 line,60field; CIF: 256Kbps ~ 1.5Mbps, 8 level video quality optional; HD1: 600Kbps ~ 2.5Mbps, 8 level video quality optional; D1: 800Kbps ~ 3Mbps, 8 level video quality optional; 960P: 4Mbps-6Mbps, 8 levels video quality optional
	Record Mode	The default setting is auto recording after power on. Timed recording, alarm trigger recording and manual recording are supported.
Audio	Audio Input	4/8CH ,Aviation Plug
	Audio Output	2CH,Front port is earphone port ,rear port connects to BNC connector. The output level: 1V - 2V
	Compression	G.726 compression, 8KB/s speed
Alarm Input		8CH IO Alarm Input, 1CH AD input, pulse speed input; Support alarm linkage function
Alarm Output		2CH Relay Alarm Output, Support the linkage acousto-optic alarm, cut off fuel oil/power,etc
Communication Interface		1CH RS232, support extension device, such as POS machine, Oil Feul sensor, LED advertising screen , etc.
		1CH 485 interface, can connect PTZ,etc.
Wireless transfer		Support Built-in 3G/4G network, WCDMA,CDMA2000,TDD-LTE,FDD-LTE... Support Built-in/External WIFI,Compatible with GPRS,EDGE

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Position		Support Built GPS/BD Module,can make playback analysis of vehicle routing
G-Sensor		Support G-sensor
Video Storage	Storage	2pieces SD Card,each max 128GB SD Card, mirror recording to protect data from loss
	Upgrade	Support USB flash disk updating,SD card upgrade , OTA remote upgrade automatically
	File Format	H.264 General video format
	File System	Special FAT32 File System
	USB	Front panel supports USB port, support USB flash disk upgrade to backup; hard disk box USB port, can back up video data
Video Playback	Video Search	Search video by Record Time/Record Type etc
	Playback	Max support 4/8CH Replay /Stop/Fast Forward/Fast Reverse at same time
		Support x 2,x4,x8,x16. fast forward or fast backward play
Safety Management		User/Admin 2 Levels Different Passwords , support screen lock
Extension Functions	TTS Voice Broadcast	Support the TTS Voice Broadcast function
	Serial Port Extension	Support kinds of Access Equipment such as LED Advertising, PTZ control, Oil Fuel Sensor,etc.
Voltage & Power Consumption	Power Management	Adaptive wide power input, support Wide Voltage, Over-load、 Over-voltage、 Short Circuit、 Reverse Protection..Support Time Setting/Delay power off
	Voltage Input	DC:+8V ~ +33V
	Voltage Output	+12V@2A
	Power-off Protection	UPS Technology,All video information can be saved automatically when the power is cut off, and make sure that all the files can not be damaged.
	Power Consumption	Normal Working <5W Stand-by Status <0.5W
Working Environment	Temperature	-20℃ to +70℃
	Humidity	20% to 80%
others	Size	140(W) x42(H) x142(D) mm
	Net Weight	440g

***** Above parameters any changes,please refer to actual product *****

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