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Contents

1 Specification

4G Mobile DVR(3G /4GMDVR)a special video recoder,3G/4G video monitor for Vehicle, Train. Linus system, H.264 compression.CIF, HD1, D1,720P,1080P optional. Support hard disk and SD card.



Picture.1 Front



Picture.2 Back

FEATURES:

- Built-in high performance Hisilicon chipsets, coded with H.264 standard, high compression rate and image qulity
- 4CH AV Inputs with AHD 1080p/720P/960H/D1/CIF optional, 1CH synchronized AV output, 1CH VGA output
- 4CH local recording with 1080p (1080N) resolution in real time

Power:

- Professional In-Vehicle power design,8-36V DC Wide Voltage Range
- Multi protection circuits like under-voltage, short, reversed plug-in
- Smart power management system, shutdown under low voltage, low consumption **Data Storage:**
- Special file management system to encrypt and protect the data
- Proprietary technology to detect the bad track of the hard drive which can make sure the continuity of video and long service life of the hard drive
- Built-in ultracapacitor, avoid data loss and sd card damage caused by sudden outage
- Support 2.5 inch HDD/SSD, maximum 2TB
- Support SD card storage, maximum 256GB

Transmission Interface:

- Support 4G transmission, LTE/HSUPA/HSDPA/WCDMA/EVDO/TD-SCDMA
- Support GPS/BD optional, high sensitivity, fast positioning
- Support wireless download by WiFi, 802.11b/g/n, 2.4GHz

Technical parameter:						
ltem	Device parameter	Performance				
	Main processor	Hi3520DV300				
	Operating system	Embedded Linux OS				
System	Operating language	Chinese/English				
	Operating interface	GUI, support mouse				
	Password security	User password/Admin password				
	Video standard	PAL/NTSC				
	Video compression	H.264				
	Image resolution	1080P/1080N/720P/960H/D1/CIF				
Audio	Playback quality	1080P/1080N/720P/960H/D1/CIF				
&	Compound mode	A variety of ways				
Video	Decoding ability	1ch 1080p real time				
	Recording quality	Class 1-6 optional				
	Image display	Single/QUAD display optional				
	Audio Compression	G.726				
	Audio recording	Audio & Video synchronized recording				

MDVR Specification:

	Recording mode	Manual/Alarm					
Recording &	Video bit rate	Full frame 4096Mbps, 6 classes image quality optional					
	Audio bit rate	8KB/s					
Раураск	Storage media	SD card + HDD/SSD storage					
	Video inquiry	Inquiry by channel/Recording type					
	Local playback	Playback by file					
Firmware	Upgrading mode	Manual/Automatical/Remote/Emergency Recovery					
upgrading	Upgrading method	USB disk/Wireless network/SD card					
	AV input	4ch aviation interface					
	AV output	1ch VGA video output, 1ch aviation AV output					
	Alarm input	4 digital inputs (4 Positive/Negative trigger)					
	HDD/SSD	1 HDD/SSD (up to 2TB, support hot plug/unplug)					
	SD card	2 SDXC High speed card (up to 256GB)					
Interface	USB interface	1 USB 2.0 (support U disk/mouse)					
	Ignition input	1 ACC signal					
	UART	1 LVTTL Level					
	LED Indication	PWR/RUN					
	Disk /SD card lock	1					
	Debug port	1					
E suffra	GPS/BD	Support detecting antenna Plug in/Unplug/Short circuit					
extention	3G/4G	Supports CDMA/EVDO/GPRS/WCDMA/FDD LTE/TDD LTE					
	WIFI	802.11b/g/n, 2.4GHz					
	Power input	8~36V DC					
		Standby 3mA					
	Power consumption	Maximum consumption 30W @12V 2.5A @24V					
Others		1.25A					
	Working temperature	-30 70 ℃					
	Storage	1080P 1.5G/h/channel 1080N 1.2G/h/channel 720P 1G/h/channel 960H 750M/h/channel					
	Dimension	148mm*188mm*60mm					

Project	Spe.	Feature			
Desident	8 261/	DC+8V \sim +36V, if lower than 8V, or higher than 36V, the			
Power input	8—30 V	MDVR will be shutdown, into protect status			
Power Output	12V	Output :12V (+/-0.2V), max 2A _o			
	≤ 4∨	Key off。			
Key Signal	≥5∨	Key on 。			
Video	750	750/04			
Input(Ω)	7 512				
Video Output	2Vp-p	One 2Vp-p CVBS One 75Ω			
1/0	0—4V	Low voltage alarm			
1/0	>4V	High voltage alarm			
SD Card Slot	SD Cord	1、Support SD Card up to 128G, Support two SD Cards			
	SD Card	2. Support upgrade			
Temperature	-30°C - 70°C	-30°C-70°C with good environment			

2.Feature

2.1Remote control application



Picture.3 Remote control



2.2 MDVR interface



1、12V: For camera and voice record, 2、Negative, 3、AIN: For Audio; 4、VIN: For Video;

Picture.4 MDVR interface

Back Panel

Back Panel

Interface	item	Feature
Power	DC8-36V	Power inpute (red for positive, black is for
		negative, yellow is connect to ignition cable, when
		switch mode set up in ignition mode)
Video/Audio	CAM1-4	+12V_1_2_GND
input	(AV1-AV4)	Video/Audio Input interface
Video output	VOUT	Video output
Audio output	AOUT	Audio output
IO/ALARM	IO/ALARM	IO/ALARM
USB	USB	Mouse

3. Power



Picture.5 Power

1) Make sure the volt is 8-36V before you connect with the bettery , or the MDVR will be burn up

2) Yellow cable must to connect with the ACC , or the DMVR can

not be delay shutdown,the video will be lose.

4 System User login

After connect the power, press "Login" to login without password. (There is no password before you setup)



Picture.6 Login

5 Main Menu



Picture 7 Mail Menu

< SEARCH>: Search for video files stored in the hard disk/SD card and perform playback operations;

<RECORD>: Set the audio and video parameters, working mode, etc.;

<BASIC>: Set alarms, ptz, time, network, disk, system, etc.;

<INFO>: Display device serial number, version number, SIM card, GPS module, WIFI, MAC address, etc.;

<VEHICLE>: Set vehicle number, switch settings, wireless settings, WIFI settings, etc.;

<DISPLAY>: Set monitor screen and video data content, channel name, time overlay, boot preview screen, etc.;

<PASSWORD>: Set menu password.

5.1 Record Search

MAIN MENU-RECORD SEARCH																
CHN DATE	ALL PLAY BACK 2018-02-28 09:32 SEARCH															
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
FEB.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	0	0	0	1	0	2	0	3	0	4	0	5	0	6	0	7
28th	0	8	09		10		11		1	2	1	3	1	4	1	5
	1	6	1	7	1	8	1	9	2	0	2	1	2	2	2	3
	5				FI	LE I	.IST		E	XIT	•]				

Picture.8 Record Search

Record Search: Search, playback, and backup of video files on disk

5.2 Record Setup



Picture.9 Record Setup

<RECORD>: You can select on/off to select whether the channel is recording; <RESOLUTION>: D1 / HD1 / CIF / 720P / 1080N / 1080P resolution optional; <BITRATE>: High / medium / low optional;

<FRAMERATE>: 1 to 25 (or 30)optional;

<QUALITY>: 1 to 6 optional; the smaller the value, the better the image quality; <AUDIO>: Optional on/off;

<REC. SIZE>: 15 minutes / 30 minutes / 45 minutes / 60 minutes optional;

<REC.MODE>: Optional boot recording / timer recording;

<SNAP RES>: D1/CIF/HD1/960H/720P/1080P optional.

5.3 Basic Setup



Picture.10 Basic Setup

<Alarm>: Set the switches and parameters of various alarm inputs;

<PTZ>: Set the PTZ parameters;

<Date/Time>: Set system time, daylight saving time;

<Disk>: Display disk status, provide hard disk, SD card, U disk formatting function;

<Maintain>: Set automatic restart, system upgrade, factory reset;

<Network>: Set network, server IP;

<System>: Set system language, camera format, output resolution, camera type.

5.3.1 Alarm Setup

	MAIN MENU-BASIC-ALARM SETUP
10	ALL V
TRIGGER	HIGH CHN Switch NO RECORD
DISK FA	AILURE DISK SPACE
ALARM S	ET OUTPUT 010 🔽 BUZZER 000 🔽
	DELAY 060 🔽 ADVANCE 000 🔽
EMAIL	
	DEFAULT APPLY EXIT

Picture.11 Alarm Setup

<IO>: Select interface;

<Trigger>: High and low optional;

<CHN Switch>: "YES/NO": switch or not when level is triggered;

<Disk Failure>: Alarm when there is no disk or the device does not recognize the disk;

<Disk Space>: Alarm when the disk is out of memory;

<Video Loss>: Alarm when there is no video input.

5.3.2 PTZ Setup

	MAIN MENU-BASIC SETUP-PTZ SETUP
CHANNEL	ALL 🔽
PROTOCOL	Pelco-D
BAUD RATE	9600 🔽
DATA BIT	8
VERIFY	ODD 🔽
STOP BIT	1
ADDRESS	001
	DEFAULT APPLY EXIT

Picture.12 PTZ Setup

<Protocol>: Support PELCO-D and PELCO-P;

<Baud Rate>: 1200、2400、4800、9600 bps optional;

<Data Bit>: 5,6,7,8 optional;

<Verify>: Odd、Even、Mark、Space、None optional;

<Stop Bit>: 1、1.5、2 optional;

<Address>: 001~255.

5.3.3 Time Setup

MAIN MENU-BASIC SETUP-TIME SETUP					
DATE 2018-02-26 DATE FORMAT YY-MM-DD					
TIME 15:32:01 TIME FORMAT 24HOURS					
TIMEZONE 480 🗸 AutoTiming					
GPS TIMING MODIFY DATETIME					
DST OFF					
When Modify, Press [MODIFY DATETIME]					
DEFAULT APPLY EXIT					

Picture.13 Time Setup

<Date>: Set year, month, day;

<Time>: Set hour, minute, second;

<Date Format>: MM/DD/YY or YY-MM-DD;

<Time Format>: 12-hour system or 24-hour system;

<Auto Tining>: Automatically synchronize with GPS satellite time;

<Modify Datetime>: After modifying the time, select "Modify Datetime" to take effect.

5.3.4 HDManagement



Picture.14 HDManagement

<Auto Format>: Automatically formatted when a new hard disk or SD card is powered on;

<Overwritten>: Automatically overwrite the oldest video file when it is full.

5.3.5 System Maintain

MAIN MENU-BASIC SETUP-SYSTEM MAINTAIN
AUTO RESET OFF
SYSTEM UPDATE DEFAULT SETTINGS RESTART PARAMETER IMPORT PARAMETER EXPORT STANDBY
LOG SEARCH
DEFAULT APPLY EXIT

Pictures.15 System Maintain

<System Update>:

1.Copy the files to be upgraded to the updatedvr directory of the SD card.

2.Insert the SD card into the device.

3.Click the <System Upgrade> button.

5.3.6 Network Setup

MAIN M	IENU-BASIC SETUP-NETWORK SETUP
ТҮРЕ	DHCP DDNS SETTINGS
MEDIA PORT	09000 CMS SETUP
WEB PORT	00080
IP	192.168.003.077
AUTO DHCP	0.0.0.0
DNS	202.096.134.133
	DEFAULT APPLY EXIT

Picture.16 Network Setup

<Media Port>: Generally not modified

<WEB Port>: Generally not modified

<CMS Setup>: Set the server IP address, port

MAIN MENU-B	ASIC SETUP-NETWORK SETUP-CMS SETUP
ACCESS TYPE	IP Address
SERVER IP	113. 096. 131. 200
SERVER DOMAIN	
SERVER PORT	06608
	Default APPLY EXIT

Picture.17 CMS Setup

<Access Type>: select"IP Address"

<Server IP>:113.096.131.200 (Configure according to your own server IP)

5.3.7 System Setup

MAIN MI	ENU-BASIC SETUP-SYSTEM SETUP
VIDEO SYSTEM	PAL 🔽
VGA RES	800 * 600 🔽
LOOP TIME	000 (SEC)
Camera Type	
CHN1-2 CHN3	3-4
720P 🔽 720F	
SYSTEM LANGUA	AGE
Switch Sy	stem Mode, System Restart.
	APPLY EXIT

Picture.18 System Setup

<Video System>: PAL(Default)/NTSC

<VGA RES>: VGA output display resolution

<Camera Type>: "SD" stands for analog camera, "720P" stands for AHD 720P camera,

"1080N/1080P" stands for AHD 2 megapixel camera, Select the corresponding camera type to display properly

<System Language>:Set system language, including Chinese, English, and Traditional Chinese

Note: Switch system mode, system restart

5.4 System Info

MAIN	MENU-SYSTEM INFO
SERIAL NO.	20300613408
SOFTWARE VERSION	D2018012482
Mac ADDRESS	00:77:77:77:77:77
SIM CARD	NO
GPS MODULE	YES
GPS SIGNAL	INVALID
WIFI MODULE	NO
WIFI CONNECT	NO
WIRELESS MODULE	YES
WIRELESS CONNECT	NO
WIFI CONNECT WIRELESS MODULE WIRELESS CONNECT	NO YES NO

Picture.19 System Info

<SIM Card>: "Yes" means the SIM card is recognized, "NO" means not

<GPS Module>: "Yes" means the GPS module is recognized, "NO" means not

<GPS Signal>: "INVADLID" indicates that there is a signal

<WiFi Module>:"Yes" means the WiFi module is recognized, "NO" means not

<WiFi Connect>:"Yes" means successful networking,"NO" means not

<Wireless Module>: "Yes" means the 3G/4G module is recognized, "NO" means not

<Wireless Connect>:"Yes" means successful networking,"NO" means not

5.5 Vehicle Info

	MAIN MENU-	-VEHICLE INFO	
BASIC	SPEED	ACC	TEMPERATURE
ON/OFF	WIRELESS	WIFI	GPS

Picture .20 Vehicle Info

5.5.1 Basic Setup

MAIN MENU-VEHICLE INFO-BASIC SETUP
COMPANY NAME
LICENSE NUMBER
DRIVER'S NAME
Need super user to modify
APPLY EXIT

Picture.21 Basic Setup

<Vehicle NO.>: Set the number of the machine (3G\4G function device requires super administrator setting)

<Company Name>: Enter your company's name; <License Number>:Enter license number of the car; <Driver's Name>:Enter driver's name; <Line Number>:Enter line number.

5.5.2 Speed Setup



Picture.22 Speed Setup

5.5.3 ACC Setup



Picture.23 ACC Setup

5.5.4 Temperature Setup



Picture.24 Temperature Setup

5.5.5 ON/OFF Setup



Pictures.25 ON/OFF Setup

<ON/OFF Model>:Ignition Mode / Timing Mode (In the ignition mode, the MDVR will automatically turn on after the car is started, and lin the timing mode, the MDVR will be turned on at the time set by the user.) <Delay Off Time>:1~300 minutes (Effective after restarting)



Pictures.26 Timing Model

5.5.6 Wireless Setup

	MAIN MENU-VE	HICLE I	NFO-WIRELESS	SETUP	
WIRE VIRE	LESS: ON start		Status		
APN:	3gnet	UJEN			
DIAL	NUMBERS:	*99#			
LOGIN	USER:				
LOGIN	PASS:				
			APPL	Y	EXIT

Picture.27 Wireless Setup

<Restart>: When the module cannot be reconnected after disconnection, the module will automatically power off and reset.

5.5.7 WiFi Setup

	MAIN MENU-VEHICLE INFO-WIFI SETUP
ESSID	QUALITY ENC ENCTYPE
WIFI: Search I	OFF V Hotspot Status Hotspot IP Config
	APPLY EXIT

Picture.28 WiFi Setup

<Search Hotspot>: Search for nearby WiFi hotspots

< Status>: View WiFi connection status, IP address and other information

<Hotspot>:It can configure 5 WiFi hotspots

<IP Config>: Get IP address, DNS, etc.

5.5.8 GPS Setup

MAIN MENU-VEHICLE INFO-GPS SETUP				
GPS BAUDRATE	9600 🔻			
GPS SEND INTERVAL	0010			
SEND ALARM SWITCH	ON 🔽			
ALARM INTERVAL	02			
PARKING TIMEOUT	000			
OVERSPEED VALUE	060			
LOWSPEED VALUE	000			
SPEED UNIT	КМН 🔽			

Picture.29 GPS Setup

<Overspeed Value>: Above the set speed, the device will alarm <Lowspeed Value>: Below the set speed, the device will alarm

5.6 Display Setup



Picture.30 Display Setup

<Hor. Flip>: Flip the video image horizontally <Ver. Flip>: Flip the video image vertically

5.7 Password Setup

MAIN	MENU-PASS	WORD SETUP	
DEVICE ID	000000		
USE PASSWORD	ON 🔻		
ADMIN PASSWORD		INPUT AGAIN	
USER PASSWORD		INPUT AGAIN	
		ΑΡΡΙΥ	EXIT

Picture.31 Password Setup

Only "Admin" can set "Admin Password" and "User Password"

6 I/O Interface



Picture.32 IO Interface

There is 4 alarm input,2 alarm output. Alarm input detection are voltage; can be accessed by variety of vehicles driving status, such as brakes, steering ,horn and so on. Brake testing schematic shown below, when the brake pedal is depressed, MDVR able to detect high or low voltage.



Picture.33 Brake testing schematic

Alarm outputs are voltage output. Drive capability of 200mA, if you want large power devices, must be externally relays. Alarm output photoelectric schematic shown below.



Picture.34 Alarm Schematic

7 Check Networking(Online) Status

2018-05-25 16	: 34 : 46	1
CH1	CH2	СНЗ
GPS:YES CLNG:11349.71392 E LAT:2236.43040 N	CH5	CH6
4G:YES SIM:YES		
4G ONLINE:YES CMS ONLINE:YES SERIAL NUM:SD030	CH8	

Picture.35 Check Networking (Online) Status

Press the button "Info" on remote control, will be showed the online information. GPS:YES means recognize the GPS module; GPS:NO means not recognize GPS module LNG:11349.71392 E Display longitude, 0.0 means GPS not working LAT:2236.43040 N Display latitude, 0.0 means GPS not working 4G:YES means recognize module, 4G:NO means not recognize module SIM:YES means recognize the SIM card, SIM:NO means not recognize the SIM card 4G ONLINE:YES means networked, 4G ONLINE:NO means no connecting network CMS ONLINE:YES means connected the server, CMS ONLINE:NO means not connect the server

8 CMSV6 Installation Instruction

 文字
 北京主动安会云平台
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1.For PC download from <u>http://113.96.131.200/</u>

Picture.36 CMSV6 download

User Password I13.96.131.200 Remember password Login automatically			50
User Password Server 113.96.131.200 Remember password Login automatically		00110	141
User Password Server 113.96.131.200 Remember password Login automatically			
Password Server 113.96.131.200	User		•
Server 113.96.131.200 -			
Remember password Login automatically	Password		
	Password Server	113.96.131.200	2.

Picture.37 login interface on PC

User: Mark on the device label Password: Default 000000 Server: Enter IP 113.96.131.200(if you do not built your own server) 2.For smart phone, search "CMSV6" in the app store and download.

●●●○○ 中国移动 夺	3:15 PM	@ 1 0 🕴 73% 🔳)
	Ø	
Acco	unt	
Pass	word	
IP 113.9	6.131.200	
Log	gin	Find
	9	

Picture.38 login interface on phone

Account(User): Mark on the device label Password: Default 000000 Server(IP): Enter IP 113.96.131.200 (if you do not built your own server)