User Manual For

PRO 7004HD MDVR

Mobile Digital Video Recorder

Notice

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without any notice.

The purpose of this manual is to kindly aid the user for the operation for our MDVR. The user should have a basic understanding of computer operation and basic knowledge of how to connect peripherals and make some settings.

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Guarantee & Warnings

1) Electrical Apparatus Safety

All installation and operation should comply with local electrical safety norms.

2) Transportation

In the process of transportation, storage and installation, please avoid heavy stress, violent vibration, impact and water splashing.

3) Installation

Install the equipment in accordance with the requirements, handle carefully. Do not heavily press the equipment before the MDVR installation is finished.

4) Requirements on Engineers & Technicians

All the work of checking and maintenance should be done by qualified technicians and engineers. We do not undertake any responsibility caused by unauthorized modifications.

5) Requirements on Environment

The equipment should be installed and stored in a cool and dry place, away from direct sunlight, flammable or explosive substances, etc. Keep gaps not less than 3cm around the device to facilitate ventilation for cooling.

6) Accessories

Make sure to use accessories from the manufacturer recommended in the attachment. Insulate circuit ground and metal shell for all the peripherals.

Before installation, please open the package and ensure that all parts are included.

If there are any problems, please contact us as soon as possible.

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1. PRODUCT CHARACTERISTICS

1.1. OVERVIEW

Siera PRO 7004HD is a functional Mobile Digital Video Recorder specially designed for vehicle video surveillance and remote monitoring. It has a high-speed processor and embedded operating system, combining with the most advanced H.264 video compression / decompression technology, 3G/4G network, GPS positioning technology, as well as WIFI. It supports not only video recording in 720P, AHD, WD1, WHD1, WCIF, D1, HD1 and CIF formats, but also vehicle travel information recording and wireless data upload. With center software it also achieves alarm linkage central monitoring, remote management and playback analysis. It is easy to use with simple design, multi-functions, superior anti-vibration, flexible installation and high reliability.

Function Overvi	ew	Preview, Recording, Playback, Network, Locatin				
System	OS	Linux 3.0.8				
System	Control Mode	Easy Check, network, mouse (3G/4G/WIFI optional)				
	Input	4 channels AHD+1 channel 720P				
	Output	1 channel				
		PAL:				
		(4x25)FPS WD1+30FPS 720P(IPC)				
Video	Total Resource	Or (4x15)FPS 720P(AHD)+30FPS 720P(IPC)				
VIGEO	Total Resource	NTSC:				
		(4x30)FPS WD1 +30FPS 720P				
		(4x15)FPS 720P(AHD)+30FPS 720P(IPC)				
	Video Signal Standard	Electrical level: 1Vpp Impedance: 75Ω NTSC/PAL				
		Optional				
	Input	5channels (1 channel IPC audio input)				
Audio	Output	1channel				
	Audio Signal Standard	Electrical level: 2Vpp Input impedance: 4.7kΩ				
	Display Split	1/4/9				
Display	OSD	GPS information, alarm, vehicle No., speed, date/time				
	Operation Interface	Semi-transparent GUI				
	Video/Audio Comprozoion	Video: H.264				
	Video/Addio Compression	Audio: ADPCM, G.711A , G.711U				
		Analog:				
Recording		PAL:				
	Image Resolution	720P(1280X720)				
		WD1(928X576),WHD1(928X288),				
		WCIF(464X288),D1(704X576),				

1.2. SPECIFICATIONS

		HD1/704/298) CIE/252/288)				
		NTOO:				
		NISC:				
		120P(1200A120)				
		WDT(928X480),WHDT(928X240),				
		VVCIF(464X240),D1(704X480),				
		HD1(704x240), CIF(352x240);				
		/20P(1280X/20);				
	Image Quality	1-8 levels adjustable (1 is the best)				
	Recording Mode	Boot up/Manual/Schedule/Alarm				
	Pre-recording	0-60minutes				
	Post-recording	0-30 minutes				
	Mirror/Dual Recording	Support				
Blavback	Playback Channel	1 channel by local playback				
FlayDack	Search Mode	Date/time, channel, event				
	3G/4G	EVDO/WCDMA/TDD-LTE/FDD-LTE				
Notwork	WIFI	802.11b/g/n				
Network	Network connection	WIFI/3G/4G optional				
	IPC Ethernet	6-pin M12(10/100M x 1, power supply)				
Locating	GPS	Location tracking, speed detection and time sync				
Storage	SD	SD card x 2				
	USB	USB2.0 x 1				
	SIM	SIM slot x 1				
	RS232	RS232 × 1				
Interface	Sensor	8 inputs, 2 outputs				
	Speed	1 channel pulse speed detection				
	Control panel	CP4 optional				
	Intercommunication	I MIC interface				
	Input	DC8-36V, Ignition signal				
Dowor	Output	5V@1000mA				
Power	Max Power Consumption	29W				
	Standby Power Consumption	≈0W				
Physical	Dimension (L × W × H)(mm)	167.3 x 146.3 x 54.1				
Characteristic	Weight	0.83Kg				
	Operating Temperature	-40℃- +70℃(With heater) or -10℃- +70℃				
Environment	Operating Relative Humidity	8%-90% (No Condense)				

1.3. SYSTEM DIAGRAM



1.4. EXTERNAL INTERFACE

DIMENSION (Unit: mm)





FRONT PANEL

Serial No.

Dual SD card and SIM slot

1

2 3



Interface	Description
PWR	Power indicator lamp: blue
ALM	Alarm indicator lamp: It is red when there is alarm, otherwise, it is light off.
	Record indicator lamp: It is green when HDD or SD card is recording while it is light off
REC	when it is not recording.
ERR	Error indicator lamp: It is red when there is something wrong with hard disk.

	Network indicator lamp : It is green when there is 3G/4G module, otherwise, it is light
NET	off. It flashes when there is network.

REAR PANEL



Serial No.	Print	Description				
1	Power	DC 8-36 V Power Input				
2 Sensor&Serial The Interfaces of Serial Port and Switch						
3	AHD 1~4	Audio & Video Input 1-4				
4	A/V OUT	Audio & Video Output				
5	IPC	The Interface of Power Supply				
6	x	GPS Antenna Interface				
7	հե	3G/4G/WIFI Antenna Interface				

1.5. DEFINITION AND PICTURES OF EXTERNAL CABLES

ALARM CABLE DEFINITION





Alarm and Serial Cables



A/V OUT Cable

2. LOCAL MANAGEMENT

Supports 3 kinds of local setting methods:

- 1) Connect monitor to mobile DVR and make sure it can play real time output image. Then connect mouse to USB interface at the front panel to have MDVR parameter setting.
- 2) Connect the touch panel to mobile DVR to have MDVR parameter setting. (RS232 serial port is needed when connect to the panel interface directly.)

2.1. LOGIN INTERFACE

When operate the device, user needs to have permission certified.

- 1) Press the remote control 【LOGIN / LOCK】 or 【SETUP】, the login screen will pop up.
- 2) Right click the mouse, the shortcut menu will pop up, left click login picture, login screen will pop up.
- 3) Left click on the login button to login and right click to log out.



User name	guest
Password	guest
Language	English
Lo	egin Cancel

Login Notice:

- 1) Software is automatically assigned by user name and password, it can be divided into user and administrator privileges.
- 2) Password options cannot be closed, but it can be set to null; when it is empty, user do not need to enter the password to login.

Login interface Introduction:

- > User name:
- 1) Select users from the drop-down box. There are admin and user as defaults.
- 2) Currently, it can show two users and one admin.

> Password:

- 1) User can enter the operation interface if entering the right password;
- 2) User must enter the right password again if entering the wrong ones;
- 3) Click cancel to exit the login interface;

Language:

- 1) It supports language switch.
- 2) It will automatically switch once selecting the language.
- 3) Currently, it supports English;
- 4) After switching languages, it will not restore language option when user restores the factory Settings;

Default password and permission table is as follows:

Default Password	Related User	Related Authority
admin	admin	All Authorities
User	user	Search and playback

The password input Instruction:

 User can set password with remote controller, mouse or touch panel. Move cursor to password, click Enter and enter the right number.



- 2) Move the cursor to the number position, press [Enter] or left click mouse button to select the corresponding number.
- 3) Move the cursor to 【123】, press 【Enter】 or mouse to choose input type, such as numbers, letters, or special characters.
- 4) **(**ab **)** means lower case letters, **(**123 **)** means numbers, **(**AB **)** means capital letters; the highlighted place of background refers to the current cursor position.
- 5) Move Cursor to To Press Enter or left click mouse to move between the contents that have entered.
- 6) Move Cursor to **E**, Press **[**Enter**]** or left click mouse to delete the previous input contents.
- 7) Move Cursor to Fress [Enter] or the left click mouse to exit the keypad, the entered contents will be written to the edit box.

8) Move Cursor to **[**Esc **]** position, Press **[**Enter **]** or the left click mouse to exit the keypad, the entered contents will not be written to the edit box.

Main interface



2.2. RECORD SEARCH:

Video search interface contains video file search, video data backup and video playback function. When there is a hard disk or SD card, enter the video search interface. Following is the REC Search interface:

≏				REC se	arch			5
	s 27	M 28	T 29	W 30	T 1	F 2	s 3	Main recor 🗸
Oct.	4	5	6	7	8	9	10	— Alarm
	11	12	13	14	15	16	17	- Locked
	18	19	20	21	22	23	24	- Normal
2015	25	26	27	28	29	30	31	
	(1)	2		4			7	Next

In the calendar, the color below the dates means:

- a. No color means no video.
- b. Green means common video.
- c. Red means alarm video.
- d. Yellow means there are alarms and the video files are automatically lock (lock video).

Source: select the source of the video, there are main video, sub video and mirror video.

The main record means HDD record while sub record and mirror record are dual-stream records.

Select the date with record, click next, and then enter the following interface: Following are the search options and search result interface:



Video type: User can choose all record, alarm record or normal record.

Channel: The channel is optional and mark with color that has record. The channel with gray cannot be chosen if there is no record. As to different record type, it will show different relates.

Click search button in the record search detail page, user can enter then record search result page.

Time Bar: Time bar shows three time points, 0 o'clock, 12 o'clock, 24 o'clock. It shows what type of videos during the time according to the marked channel.

Channel No: According to the situation of video for each channel video the day, the video will be displayed on the time line. Tick the channel if user wants to playback the video.

Note: channel number is displayed from 1~20, please up page up/page down button to change channel **Button description**

Video playback: Choose the channel No., select start time to play < default start from 0 >, click the playback button to playback the video.



In playback interface, user can choose fast forward or fast backward to play the video, the button in the middle of screen can switch the channels. The image stops and it will not exit automatically when playing to the last video of the day.

Time period settings: Click the time setting button, select start time and end time, it will back up or playback the video in the selected time period. Click clip to export the video, the file format can be.264< comprehensive file >, also can be.avi format.



Video export: Select the channel that has the video files, click this button, all the video files in the effective time period will be exported to the external USB peripherals, file format can be.264<comprehensive file >, also can be avi format.

User can also get out the hard drive or SD card, export and playback the video by professional software.

	Export
Export time	00:00:00 - 23:59:59
File size	140.1M
	_DATA
STR_AVI_DATA	
Ok	Cancel

2.3. LOG SEARCH

In the log search interface, it records and displays all alarm events and login operation log. Enter the "log query", the interface will be shown as following:

合				Log Sea	arch			5
	S	M		W		F	S	
	27	28	29		_1	2	3	
Oct.	4	5	6	7	8	9	10	
	11	12	13	14	15	16	17	Log mark
	18	19	20	21	22	23	24	
2015	25	26	27	28	29	30	31	
	1	2		4			7	Next

Log Search interface instruction:

Calendar: the date with log will be marked on the calendar with green color.

Remark: There is no color classification in the "log mark", and all are green ones.

≏	2015-10-12 Log Search	5
	Start time00:00:00End time23:59:59Log typeOperation log	
		Search
≏	2015-10-12 Log Search	Ð
	2015-10-12 Log Search 03:23:17 - 04:24:18 panel	
	2015-10-12 Log Search 03:23:17 - 04:24:18 panel 04:25:20 - 05:26:21 video loss	
	2015-10-12 Log Search 03:23:17 - 04:24:18 panel 04:25:20 - 05:26:21 video loss 10:26:20 Local user logout	
	2015-10-12 Log Search 03:23:17 - 04:24:18 panel 04:25:20 - 05:26:21 video loss 10:26:20 Local user logout 06:29:26 - 07:30:27 move frame	
	2015-10-12 Log Search 03:23:17 - 04:24:18 panel 04:25:20 - 05:26:21 video loss 10:26:20 Local user logout 06:29:26 - 07:30:27 move frame 12:32:26 Format disk	

Log search interface instruction:

Start time: the start time for searching log files

End time: the end time for searching log files

Log types: classification of log search, including the operation log and alarm log and locking log

Operation log search interface instruction

Log includes the following information:

Log time: the time when event is triggered

Log name: event content

Supports page up/page down and export all log files of the specified date.

Do not support link to video file.

Log search

Alarm type: It includes all alarms, IO alarm , panic alarm and over speed alarm. Log includes the following information:

Log time: the time when event is triggered

Log name: event content

Supports page up/page down and export all log files of the specified date.

Supports link to video file, click on E button to playback video files

Lock log search

Log includes the following information:

Log time: the time of when event triggered.

Log name: event content

Log will be recorded according to channel number, each channel will have a lock log file.

Support page up and page down.

Can't export all log files of the specified date.

Can link to video file, click on 🔲 button to playback video files.

Unlock: Select log, and unlock it. Then the alarm log of lock will be cleared.

Remark:

When lock the video file, system will record alarm log and lock log. The locked video file can only be unlocked from alarm log.

2.4. SYSTEM STATUS

User can login the interface with no access restrictions.

System- Version information



System- Modules

合	201	2015-10-12 System		
() Version info	WIFI	Location		
	Built-in WIFI stat	us Cc	onnected	
Modules	Signal	Inc	(h.	
۲	IP address	19	2.168.145.1	
Server Status	External WIFI sta	tus NC	D WIFI module	
Environment	ESSID			
Storages	IP address			

System-Server status

≏	2015-10	-12 System	5
Version info Modules Server Status Environment Storages	Center server1 Server status Network type Protocol type Server address Port	Connected Module1 N9M 211.154.151.60 5556	\langle

> System - Environment

≏	2015-10-12	2 System 5
Version info Version info Modules Server Status Environment Storages	Voltage(V) Device temperature(°C) HDD heater status	11.08 48.00 Off

> System-Storage:

≏		2015-10-12	System	Ð
Version info Version info Modules Berver Status Environment Storages	Storage type HDD SD(Internal)	Status Recording Recording	Free/Total 2.7G/500.1G 2.3G/31.9G	Remain time 12Minute 27Minute

2.5. BASIC SETUP

Click setup button and enter the following interfaces:

2.5.1. REGISTER INFOMATION (SETUP VEHICLE INFORMATION)

> Register information-Device info:

C Basic S	etup Surveillance	e Collection	Alarm	Ko Maintenance	Ð
	Device Info	Vehicle Info	Driver Info		
Regist info	Device ID	0			
Time setup					
Startup					
User setup					
				Save	

Device ID: Currently, it is not useful.

> Register information- Vehicle info

≏	Ö Basic Se	etup	Surveillance	Collection	Alarm	Maintenand	
	*	De	evice Info	Vehicle Inf	o Driver In	fo	
Regist	info	Vehi	cle Num				
Time s	etup	Vehi	cle Plate	\square			
Start	up	Line	number				
User s	etup						
						2	Save

Vehicle Number: When connected with PAD, the vehicle number is needed.

Vehicle plate: Input manually.

Line number: Input manually.

Register information—Driver info:

C Basic S	etup Surveillance	Collection	- <u>``</u> - Alarm	Content Maintenance	Ð
	Device Info	Vehicle Info	Driver Info		
Regist info	Driver number				
Time setup	Driver name				
Startup					
User setup					_
				Sav	e

Driver number: Input manually. **Driver name:** Input manually.

2.5.2. TIME SETUP

> Time setup-General

Date format: Setup the date format of device **Time format**: 24 hours or 12 hours **Time zone**: Range from -12th district ~ +13th district

1 Basic	Setup Surveilla	ance Collection Alarm Maintenance
	General	Time Sync DST
Regist info	Date format	YEAR-MONTH-DAY
Time setup	Time format	24 Hours
Startup	T: 7	
User setup	Time Zone	
		Default Save

Time-Time Sync

Basic	Setup Surveillance Collection Alarm Maintenance
	General Time Sync DST
Regist info	Date/Time 2015-10-13 08:56:51
Time setup	Satellite 🗸
Startup	NTP sync
User setup	
	Default Save

Date/Time: Device time, from 2000-01-01 to 2036-12-31

Satellite: Synchronize time with GPS satellite. Once GPS signal changes to valid, device will synchronize time

Center Server: synchronize time with center server NTP sync: synchronize time with NTP server Remark:

- 1) Synchronize time according to time zone
- 2) Multi-mode can be selected for time synchronization. If one works, the others take no affect. Otherwise, it switches to another sync mode every 5 minutes.
- Time setup-DST



Enable: Select to enable

Offset: After enabling DST, adjust the hour manually

Mode: Setup DST according to week or date Start: Time to start DST End: Time to end DST

2.5.3. START UP

Startup-ON/OFF

Basic S	Setup Surveillance Collection Alarm Maintenance
	ON/OFF Sleep
Regist info	ON/OFF mode Ignition
Time setup	Ignition Delay 300 Second
Startup	Timer From 08:00:00 To 18:00:00
User setup	
	Default Save

ON/OFF mode: 3 modes, including ignition, timer and ignition or timer.

Ignition: Input ignition delay time for shutdown delay function

Timer: When setup the start mode as Timer, please setup the start time and end time Under this mode, MDVR's start up or shut down time will not affect the ignition.

Remark:

If use setup as Ignition or Timer Mode, Ignition ON or Timer start time can trigger MDVR start up. And only when Ignition off and Timer end time, MDVR will shut down.

Start-Sleep



Sleep Mode: Currently, there is only no consumption standby mode available.

Low Volta protect: Enabling the low voltage shutdown protection mode selected.

Battery low voltage: Protect the vehicle battery. When consistently below the standard value, it will countdown shutdown. As for a 12V vehicle, the default is 9V, while a 24V vehicle is 21V.

Voltage start up: low-voltage protection, when the battery voltage is consistently greater than the standard value, it will automatically boot. As for a 12V vehicle, the default is 12.5V, while a 24V vehicle is 24.5V.

Low volt upload: The low-voltage protection will be reported to the platform after it is ticked.

2.5.4. USER SETUP

In the basic settings, click user settings, enter the following interface, user can enter setting menu.

D Basic	Setup Surveillance Collect	ion Alarm Maintenance
	Idle Time	1 Minute
Regist info	User name	User group
Time setup	admin	Admin
	user	Normal user
Startup		
User setup	Add Delete	Edit
		Default Save

User name: The default ones are admin and user.

User Group: It is divided into administrator and ordinary user.

It supports delete user function. Select the user and click "Delete User" button. Please be noted that the administrator cannot be deleted.

It supports add user function. Click "Add User" button, then enter the following interface.

User name		
User group	Normal user	
Password		
Confirm password		
	Save	

Remark:

- 1) Only administrators can add users.
- 2) Users can add up to two.
- 3) User name cannot be empty, not the same with the existed user name while the user password can be empty.

User name and password can be modified. Select a user, click the "Edit User" button, enter the following interface:

User name	user	
User group	Normal user	
New password		
Confirm new pa	561	

Modify the user name and password to confirm the operation temporarily. There is no need to verify the old password, Administrator user name cannot be modified.

2.5.5. NETWORK

In the basic settings, click Network Settings, enter the following interface, user can set network parameters.

Network - Local

Basic S	etup Surveilla	nce Collect	tion Ala	irm Maint	enance
	Local	Ports	WIFI	Comm	Server
Startup	DHCP n	node			\bigcirc
User setup	🖌 Static II	þ			
	IP address			192.168.001.1	100
Network	Subnet mask			255.255.255.0	000
Application	Gateway			192.168.001.0	
				Default	Save

Automatically obtain IP: Dynamic acquisition, DNS can also be statically configured to dynamically obtain.

Use the following IP: Static IP, need to use a static DNS.

Remark:

Switch from static IP to automatically obtain IP mode, it can display dynamic IP, but the static IP parameters will not be covered, to restore the last saved static IP after switching back.

Network Settings - Ports:

A C	etup	ance Collec	tion Ala	rm Maint	enance
	Local	Ports	WIFI	Comm	Server
Startup					
User setup	WEB port		80		
Network					
Application					
				Default	Save

WEB port No.: The default is 80.

Network- WIFI

Basic S	etup Surveillar	nce Collection	- `a`- Alarm	Mainte	nance
	Local	Ports	WIFI C	Comm	Server
Startup	Enable	Disable			\odot
User setup	ESSID				
Network	Encryption				$\overline{\mathbf{v}}$
	Password				$\overline{\mathbf{v}}$
Application			D	efault	Save

Enable: Select to enable WIFI
ESSID: Manually input the address of AP
Encryption: It supports NONE, WEP and WPA
Password: Manually input
Static IP: Select to use static IP, or MDVR will get dynamic IP

> Network-Communication:

Dialing wireless network, user needs to choose the module type and setup dialing parameters

Basic S	etup Surveillan	ce Collec	tion Ala	rm Maint	enance 5
	Local	Ports	WIFI	Comm	Server
Startup	Module	Modul	e1		\odot
User setup	Server type	WCDN	IA		
Network	Network type	Mix			$\overline{\mathbf{v}}$
	APN				\bigcirc
Application					
				Default	Save

When entering the dialing setup interface, it searches the wireless module type automatically. It shows No Service when there is no module.

Network type: The default one is Mix, 2G/3G and 2G/3G/4G optional.

Dialing parameter: It includes access point, user name, password, data service number, and enter SIM

parameters provided by the manufacturer. The default is empty, the program comes with empty arguments by dialing.

Certification: Supports PAP or CHAP.

Remark:

When there is SIM and normal 3G/4G signal, it will dial automatically.

Network- Server

Basic S	Setup Surveillance Co	Illection
	Local Ports	WIFI Comm Server
Startup	Center server	Server1 🗸 Add Dele
User setup	ON	
	Protocol type	N9M
Network	Enable network	Module1
Application	Register server addre	192.168.1.0
		Save

Center server: It supports 6 servers at most, and server 1 cannot be deleted manually.

ON: Enable the current server.

Protocol type: The default one is N9M.

Enable network: There is local, WIFI and module optional

Register server address: To run the registration server address.

Registration server port: To run the registration server port.

Media server address: To run the media server address.

Media server port: To run the media server port.

Basic S	Setup Surveillance Collection Alarm Maintenance
	Local Ports WIFI Comm Server
Startup	Center server Server1 🗸 Add Dele
User setup	Register server addre 192.168.1.0
Network	Registration server p TCP 5556 UDP
Application	Media server port TCP 6000 UDP
	Save

2.5.6. APPLICATION

Application-FTP Client

📤 👸 Basic Se	etup Surveillance	Collection	Alarm	Contemporation Maintenance	Ð
	FTP Client				
Startup	FTP Enable				\bigcirc
User setup	Server	192.168.1.100			
Network	Port	21			
	User name	admin			$\overline{\mathbf{v}}$
Application					
			Def	ault Sav	/e

FTP Enable: Enable FTP.

Server: To run FTP server address.

Port: To run FTP server port. (The default one is 21.)

User name/password: The accounts distributed by FTP server.

2.6. SURVEILLANCE

2.6.1. LIVE VIEW

Live view-->Preview

Real-time Setting Interface:

Basic S	Setup Surveillance Collection Alarm Maintenance
Live View	Preview Auto Loop Live OSD
Record	Preview audio
	Image setup Setup
IPC setup	Margins Setup
PTZ	Startup screen Quad
	Channel 🖌 1 🖌 2 ✔ 3 ✔ 4 🕟
	Default Save

Preview audio: Enable the audio when live view the video.

Image setup: Set the live-view parameters, including brightness, contrast, etc.

Startup Screen: Set the live-view screen, it can be single-screen or quad screen or nine screen **Channel:** Set the channel when live-view

Live view-Auto Loop:

C C	etup Sur	veillance	Collection	Alarm	Maintenance
Live View	Preview	w Auto	Loop Liv	re OSD	
Record	Screen	Mode	Channel	Duration	Setup
	1	1 x 1	1	10Second	
IPC setup	2	1 x 1	2	10Second	
PTZ	3	1 x 1	3	10Second	
	Add Scr	een	Auto Loop		
				Def	fault Save

Screen: Totally 32 screens can be added.

Mode: 1x1, 2x2, 3x3 optional.

Channel: Included channel number.

Duration: Duration for each screen.Edit: Delete or Edit.Add screen: Add polling screenAuto polling: Enable the auto pulling

Live view-Live OSD :

Basic Se	etup Surveilla	ance Collec	tion	Maintenance
Live View	Preview	Auto Loop	Live OSD	
Record	Date/Time	\checkmark	Speed	
IPC setup	Vehicle num		GPS	
	Alarm		Channel name	
	Device Id		ACC Info	
				efault Save

It displays the information on screen, such as time, speed, license plate, GPS... The default is only the time, and the position cannot be set.

2.6.2. RECORD

Record-->General

Basic Se	etup	Collection	Alarm Maint	tenance
Live View	General Mai	n stream Dual stre	am OSD	
Record	System	PAL		
IPC setup	Overwirte Lock duration	By capacity 7 (1~31)	 Day	
PTZ	Pre-recording	15 Min	$\overline{\mathbf{v}}$	
			Default	Save

Video type: Default is PAL, NTSC optional

Overwrite: The earliest recording file will be deleted while the HDD or SD card is full to realize loop recording.

Lock duration: Protect the record file to be deleted by fault, default is 7 days.

Pre-recording: Pre-record before the alarm happens. Default is 15min, 0-60min optional.

Record-->Main Stream:



Basic S	etup Surveillance Collection Alarm Maintenance
Live View	General Main stream Dual stream OSD
Record	Audio
	I Frame
IPC setup	Alarm quality 2
PTZ	Encode mode VBR 🗸
	Copy to All Copy Default Save

Channel: The total channel numbers of the device, including analog and digital channels.

Channel name: Change the name manually.

Enable: Enable the main stream record function

Resolution: The analog channel supports D1/HD1/CIF/WD1/WHD1/WCIF while the digital one supports 720P.

Frame Rate: Frame Rate of the recording.

Quality: Picture Quality of the recording.

Record mode: Ignition, Time, Event optional. Each channel can be set separately. The sub-stream and mirror record are the same

Audio: Enable the audio. Note: Audio cannot be record separately

I frame: Enable to let the frame rate invalid, record file that does not have alarm is I frame only.

Alarm quality: The alarm image is different from the normal recording image.

Encode mode: It supports VBR and CBR modes.

Record- Dual stream

Basic S	setup Surveillance	Collection Alarm
Live View	General Main	n stream OSD
Record	Record storage Record mode	Internal SD External SD Mirror record
IPC setup	Mirror CH	1 2 3 4
PTZ		5 6 7 8 9 10 11 12
		Default Save

Storage: The storage type for sub stream, internal SD and external SD optional.

Record mode: Mirror record, alarm back-up record and sub stream.

- **Mirror record:** Channel is selectable. Video resolution and frame rate are the same with main stream.
- Alarm backup: Channel is selectable. The parameters are the same with main stream
- **Sub stream:** Channel is selectable. Recording parameters are configurable

Substream				
	Channel			
	Enable			
	Audio			
	Resolution	CIF		
	Frame rate	15 🗸		
	Quality	3		
Copy to		Copy OK Cancel		

Sub stream includes channel number, enable or not, audio, resolution, frame rate and image quality. **Sub stream channel:** It is selectable according to recording mode.

Record-->OSD



Embedded key information to video file for easily check when playback.

2.6.3. IPC SETUP

> IPC setup:



Channel: It includes the analog channels and IPC channels. Analog channel will not be shown if it connects to network camera.

Enable: Enable to operate IPC.

IP and port: Display channel details after searching.

Setup: Search and edit IP camera recording parameters

Fast setup: Search all the IP cameras in LAN network, and auto assign IP address to IP camera. **IPC local address:** To search network camera of local area network at Intranet. The default one is 10.100.100.1.

2.6.4. PTZ

	Setup Surveillance Collection Alarm Maintenance
Live View	ChannelEnable Operate Protocol type Addr Test
Record	1 Serial V Pelco-D V Test
IPC setup	1 Serial Pelco-D V Test
	1 Serial Pelco-D V Test
PTZ	1 Serial Pelco-D V Test V
	Default Save

Channel: It includes analog channels and IPC channels.

Enable: Enable PTZ.

Operate: It includes serial, N9M and ONVIF. It supports Pelco-D and Pelco-P PTZ protocols with serial mode.

Address: It is valid with serial mode.

Test: It is to test PTZ is available or not. Click it to pop up PTZ control panel.

2.7. DATA COLLECTION

2.7.1. GENERAL

General-->Sensor

C Basic Se	etup Surveillance Collection
General	Sensor Serial Port Speed
Spap Sotting	Sensor number 1
Shap Setting	Sensor name Sensor1
ECO-Driving	OSD Name S1
	Copy to All 🗸 Copy Default Save

Sensor number: The total alarm input numbers of MDVR.

Sensor name: IO sensor name, it can set manually. The sensor name of alarm setting interface will update synchronously after setting.

OSD name: The information embedded to video image.

Copy: Copy the configuration and use it for other sensors.

General-->Serial port:

A Basic Se	etup Surveillance	Collection	- ``_ Alarm	Contract Maintenance	Ð
General	Sensor Seri	al Port Spe	ed		
Snan Setting	RS232-1		4800	$\overline{\mathbf{v}}$	
Shap Setting	RS232-2	\sim	4800	$\overline{\mathbf{v}}$	
ECO-Driving	RS485-1	\sim	4800	$\overline{\mathbf{v}}$	
	RS485-2	\sim	4800	$\overline{\mathbf{v}}$	
			De	fault Sav	e

RS232-1 and RS232-2, with the following features: three axis sensor, expansion, 485 bus and GPS data.

RS485-1 and RS485-2, with the following features: PTZ, control panel, 485 bus and GPS data.

Baud Rate: 2400-115200, 9 classes optional.

Remarks:

Model PRO 7004 have one RS232 port, but it can realize the following features: expansion, control panel, 485 bus, GPS data, three axis sensor, PTZ and integrated printer.

General-->speed



Unit: KM/H and MPH selectable.

Source: GPS, pulse or both optional.

Calibration mode: No need to calibrate if setup as satellite mode.

2.7.2. SNAP SETTING

Snap Setting-->Time snap

Basic Se	tup Su	rveillance Colle	ction	Maintenance	Ð
General	Time si	nap Trigger snap	0		
Chan Catting	No.	Start time	End time	Setup	
Shap Setting	1	00:00:00	23:59:59		
ECO-Driving					
				\sim	
	Add	Time sr	nap		
				Default Save	

Start time: Start to snap.

End time: Stop snapping.

Setup: Delete and set.

Time snap: Enable to snap at the setting time.

Add: To add snap period, and it supports 8 pieces at most.

Snap Setting--> Trigger snap

Basic Set	tup Surveillance Collection
General	Time snap Trigger snap
Snap Setting	Alarm snap Snap link Setup
ECO-Driving	Manual snap
	Snap link Setup
	Default Save

Snap link set			
	Channel	1	\bigcirc
	Snap enable		
	Resolution		$\overline{\bigcirc}$
	Quality		\sim
	Upload type	FTP	Server
	Snap numbers		(1~3)pcs
	Interval		(5~3600)seconds
Copy to		ору	OK Cancel

Trigger snap: It snaps when alarm is trigger.

2.7.3. ECO-DRIVING (It is still developing.)

A Basic	Setup Surveillance Collection	Alarm
General	lane departu	
Snap Setting	Brake input	Sensor1 🗸 🔿
	Left steering input	Sensor2
ECO-Driving	Right steering input	Sensor3
	Forward collision sensitivity	Low
	Lane Departure sensitivity	Low
		Default



2.8. ALARM

2.8.1. BASE

Base-->Speed alarm

Basic	Setup Surveillance Collection
Base	Speed alarm Panel alarm IO alarm
Video	Name Enable Alarm type Trigger Linkage Overspeed General 🗸 Setup Setup
Advanced	
	Default Save

Name: The current name is over speed

Enable: Enable or disable, tick to enable

Alarm type: It includes the following types, important and general.

Trigger:

Overspeed earl		(1:1) Km/H	
Speed	0	км/н	
Alarm Duration	10	(0~255)seco	nds
ОК		Cancel	

Over speed pre alarm difference: To set the pre alarm data. For example, if speed is 60 km/hour, and over speed pre alarm difference is 10 km/hour, TSS sends over speed alarm broadcast and records when it reaches 50 km/h.

Speed: It is the alarm speed.

Alarm duration: Alarm output duration

Linkage: When alarm triggered, link to other business operation.

	Alarm linkage	
Channel	1 2 3 4 5 6 7 8 9 10 11 12	\diamond
Post recording	1 Min	
Lock		
3G Network		
Linkage IO output	1 2	\bigtriangledown
	OK Cancel	
	Alarm linkage	
3G Network		\diamond
Linkage IO output	1 2	
Output delay time	0 (0~255)seconds	
Alarm Upload		
Linkage screen	None 🗸 Setup	
PB alarm duration	0 (0~255)seconds	
Alarm snap		\sim

Channel: Link to recording channel, optional.

Post recording: It means the recording duration after the alarm has been removed.

Lock: Enable to link recording lock when there is alarm.

3G network: When it is set as sensor trigger dial mode, it enables 3G network as it triggers alarm. **Linkage IO output:** Enable to link alarm output when alarm is triggered.

Output delay time: It means the alarm output duration after alarm is removed.

Alarm upload: Enable to upload to platform.

Linkage screen: Enable to link the channel to show full image when there is alarm. (Depends on the MDVR model, display split 1/4/9 optional.)

PB alarm duration: It means the available alarm duration after urgent alarm is removed. **Alarm snap:** Enable to link snap.

Base- Panic alarm:

Basic S	Setup	illance C	ollection	Alarm	Ko Maintenance	Ð
Base	Speed alar	m Panel al	arm IO alar	m		
Video	Name E Panic	nable Al	arm type	Trigger Setup	Linkage Setup	
Advanced						
						_
				Defa	ault	•

Name: The current name is panic.

Enable: Enable to panic button.

Alarm type: Important type and general type optional.

Trigger: Click any button to delay the time till it reaches the setting time to alarm.



Linkage: When alarm is triggered, link to business operation.

	Alarm linkage	
Channel	1 2 3 4 5 6 7 8 9 10 11 12	
Post recording	1 Min	
Lock		
3G Network		
Linkage IO output	1 2	\bigtriangledown
	OK Cancel	
	Alarm linkage	
3G Network	Alarm linkage	\diamond
3G Network Linkage IO output	Alarm linkage	\diamond
3G Network Linkage IO output Output delay time	Alarm linkage	\diamond
3G Network Linkage IO output Output delay time Alarm Upload	Alarm linkage	\diamond
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen	Alarm linkage 1 2 0 (0~255)seconds None Setup	\diamond
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen PB alarm duration	Alarm linkage 1 2 0 (0~255)seconds None Setup 0 (0~255)seconds	
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen PB alarm duration Alarm snap	Alarm linkage 1 2 0 (0~255)seconds None Setup 0 (0~255)seconds	\diamond

Channel: Link to recording channel, optional.

Post recording: It means the recording duration after the alarm has been removed.

Lock: Enable to link recording lock when there is alarm.

3G network: When it is set as sensor trigger dial mode, it enables 3G network as it triggers alarm. **Linkage IO output:** Enable to link alarm output when alarm is triggered.

Output delay time: It means the alarm output duration after alarm is removed.

Alarm upload: Enable to upload to platform.

Linkage screen: Enable to link the channel to show full image when there is alarm. (Depends on the MDVR model, display split 1/4/9 optional.)

PB alarm duration: It means the available alarm duration after urgent alarm is removed.

Alarm snap: Enable to link snap.

Base – IO alarm interface:

Basic	Setup Surveillance Collection Alarm Maintenance
Base	Speed alarm Panel alarm IO alarm
Video	Name Enable Alarm type Trigger Linkage
Video	Sensor1 General 🗸 Setup Setup
Advanced	Sensor2 General 🗸 Setup Setup
	Sensor3 General 🗸 Setup Setup
	Copy Sensor1 🗸 To All 🗸 Copy
	Default Save

Name: From Sensor1 to Sensor8 (It includes all the alarm input numbers.)

Enable: Enable the sensor alarm.

Alarm type: Important type and general type optional.

Trigger: Low and high optional. It triggers alarm when it is low as default.

Trigger	H	ligh 💟	
	ОК	Cancel	

Linkage: When alarm is triggered, link to business operation.

	Alarm linkage	
Channel	1 2 3 4 5 6 7 8 9 10 11 12	
Post recording	1 Min	
Lock		
3G Network		
Linkage IO output	1 2	\bigcirc
	OK Cancel	
	Alarm linkage	
3G Network	Alarm linkage	\diamond
3G Network Linkage IO output	Alarm linkage	$\widehat{}$
3G Network Linkage IO output Output delay time	Alarm linkage	\diamond
3G Network Linkage IO output Output delay time Alarm Upload	Alarm linkage	\bigcirc
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen	Alarm linkage	\diamond
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen PB alarm duration	Alarm linkage	
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen PB alarm duration Alarm snap	Alarm linkage	\bigcirc

Channel: Link to recording channel, optional.

Post recording: It means the recording duration after the alarm has been removed.

Lock: Enable to link recording lock when there is alarm.

3G network: When it is set as sensor trigger dial mode, it enables 3G network as it triggers alarm. **Linkage IO output:** Enable to link alarm output when alarm is triggered.

Output delay time: It means the alarm output duration after alarm is removed.

Alarm upload: Enable to upload to platform.

Linkage screen: Enable to link the channel to show full image when there is alarm. (Depends on the MDVR model, display split 1/4/9 optional.)

PB alarm duration: It means the available alarm duration after urgent alarm is removed.

Alarm snap: Enable to link snap.

2.8.2. VIDEO

Video-Video loss



Name: The default name is video loss.

Enable: Enable the video loss.

Alarm type: Important type and general type optional.

Trigger:



Sunday 🗸	Add a plan
Start time	End time
00:00:00	23:59:59
Copy to All	Copy OK Cancel

Video loss set: It includes all video channels that can be selected.Set period: Set the checking period when video loss alarm is triggered.Linkage: When alarm is triggered, link to business operation.

	Alarm linkage	
Channel	1 2 3 4	
	5 6 7 8	
	9 10 11 12	
Post recording	1 Min	
Lock		
3G Network		
Linkage IO output	1 2)
	OK Cancel	

Alarm linkage					
3G Network		\bigcirc			
Linkage IO output	1 2				
Output delay time	0 (0~255)seconds				
Alarm Upload					
Linkage screen	None 🗸 Setup				
PB alarm duration	0 (0~255)seconds				
Alarm snap		$\overline{\mathbf{v}}$			
	OK Cancel				

Channel: Link to recording channel, optional.

Post recording: It means the recording duration after the alarm has been removed.

Lock: Enable to link recording lock when there is alarm.

3G network: When it is set as sensor trigger dial mode, it enables 3G network as it triggers alarm.

Linkage IO output: Enable to link alarm output when alarm is triggered.

Output delay time: It means the alarm output duration after alarm is removed.

Alarm upload: Enable to upload to platform.

Linkage screen: Enable to link the channel to show full image when there is alarm. (Depends on the MDVR model, display split 1/4/9 optional.)

PB alarm duration: It means the available alarm duration after urgent alarm is removed. **Alarm snap:** Enable to link snap.

2.8.3. ADVANCE



Name: The default name is ACC alarm.

Enable: Enable the ACC alarm.

Trigger: Set the threshold value of X/Y/Z.



Linkage: When alarm is triggered, link to business operation.

	Alarm linkage	
Channel	1 2 3 4 5 6 7 8 9 10 11 12	\diamond
Post recording	1 Min 👽	
Lock		
3G Network		
Linkage IO output	1 2	\bigtriangledown
	OK Cancel	
	Alarm linkage	
3G Network	Alarm linkage	\bigcirc
3G Network Linkage IO output	Alarm linkage	\diamond
3G Network Linkage IO output Output delay time	Alarm linkage	\diamond
3G Network Linkage IO output Output delay time Alarm Upload	Alarm linkage	٢
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen	Alarm linkage	٢
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen PB alarm duration	Alarm linkage 1 2 (0~255)seconds None Setup (0~255)seconds	
3G Network Linkage IO output Output delay time Alarm Upload Linkage screen PB alarm duration Alarm snap	Alarm linkage 1 2 (0~255)seconds None Setup (0~255)seconds	\bigcirc

Channel: Link to recording channel, optional.

Post recording: It means the recording duration after the alarm has been removed.

Lock: Enable to link recording lock when there is alarm.

3G network: When it is set as sensor trigger dial mode, it enables 3G network as it triggers alarm.

Linkage IO output: Enable to link alarm output when alarm is triggered.

Output delay time: It means the alarm output duration after alarm is removed.

Alarm upload: Enable to upload to platform.

Linkage screen: Enable to link the channel to show full image when there is alarm. (Depends on the MDVR model, display split 1/4/9 optional.)

PB alarm duration: It means the available alarm duration after urgent alarm is removed.

Alarm snap: Enable to link snap.

X:0.0, Y:0.0, Z:0.0: The real time acceleration information.

2.9. MAINTENANCE

After login, click setup>Maintenance, and then enter into the page as follow.

2.9.1. CONFIGURATION

In the configuration page, user can export and import the configuration file.

≏	B asic	Ç Setup	Surveillance	Collection	- ``- Alarm	(Ö Maintenance	Ð
Con	fig Config file evport		Expo	ort			
FileData		Conf	ig file import	Impo	ort		
Upgrade							
Stora	age						
Res	et						

Insert flash drive to export the configuration file to the root folder, the file name is *ConfigFile* Insert flash drive to import configuration file into MDVR, and it will display the notice when import successfully.

Remark:

It won't import the register info and speed adaption info.

2.9.2. DATA EXPORT

User can export any file.

File type: GPS data file, vehicle info file, ACC info file, Can info file, Dial info file and Captured pic.

Basic	Setup	Collection
Config	Data Export	
FileDate	All	Export time
FileData	Start time	2015-10-15 00:00:00
Upgrade	End time	2015-10-15 23:59:59
Storage	File type	GPS data file
Reset		Export

2.9.3. UPGRADE

In the page of upgrade, user can upgrade software.

	Basic	Setup Sur	veillance	Collection	- <mark>```-</mark> Alarm	(Maintenance	Ð
Cont	fig				_		
FileD	ata	Device u	ıpdate	Upgrade			
Upgra	ade	IPC upgr	rade rade	Upgrade			
Store	age						
Res	et						

Put the upgrade file in flash drive. Currently, device firmware, microcontrollers firmware, C firmware and IPC firmware can be put inside.

Insert flash drive and enter the upgrade interface, click software upgrade and it will indicate that upgrade file is importing.

MDVR reboot up and enter into upgrade interface after importing successfully.

Remark:

- 1) Make sure don't power off during upgrading.
- 2) Put the upgrade file into the folder "upgrade", which is at the root directory if the USB drive
- 3) It support upgrade firmware.
- 4) Firmware and MCU will package in one file, and it will upgrade MCU first, and then firmware.
- 5) Please don't put many files in the same folder when it is upgrading, otherwise, it will upgrade one randomly.

2.9.4. STORAGE

In this page, user can format all the storage.



Storage type: HDD, SD card (Internal), SD card (External), USB drive

Free/Total

- Not exist: Didn't find the HDD (not install or broken)
- Unformatted: Means the HDD has been detected, but unformatted.(New HDD)
- Capacity info: Display the correct info means HDD working fine

Format:

Click format and it will refresh the current formatted volume information after formatting successfully. It can record after formatting successfully and no need to reboot up.

2.9.5. DEFAULT

In this page, you can click the default button to reset the parameters to factory settings.



Click reset to restore the original data.

Remark:

For, language, MAC address, register info, CMS server info, speed adaption parameter will not change during default settings.

3.WEB MANAGEMENT

3.1. LOGIN INTERFACE

1) Connect MDVR into local area network, set relevant information to make sure the computer can visit the MDVR.

2) Open browser and input http:// IP address of MDVR. It will go to the WEB login interface

of MDVR. And the default IP address is 192.168.1.100

- 3) Interface will pop up a window to install N9M activex, click install.
- 4) Refresh the web page, enter default user name admin/admin to log in.

	Language
User name	
Password	
Remember	Login

¦₽ Setup – H9HActiveX	
Installing Please wait while Setup installs N9MActiveX on your computer.	
Registering files	
	Cancel

3.2. MAIN INTERFACE





Icons: quad, 9-split, preview, next page, sound, capture and video parameters.



Stream switch: main stream, sub-stream and network transmission sub stream.



Log out: log out and come to the log in interface

3.3. PLAYBACK

View MDVR	Playback	Live view	📰 Maintenace	🗐 log	[]]] Config						G
2015 V Oct. V Main reco											
Su Mo Tu We Th Fr Sa											
27 28 29 30 1 2 3 4 5 6 7 8 9 10											
11 12 13 14 15 16 17											
25 26 27 28 29 30 31											
1 2 3 4 5 6 7											
Video type: All											
End time 23 🗘 59 🗘 59 🗘											
Channel: 🗹 🖬 1 🖬 2 🕅 3 🖬 4											
Result											
Record list>>											
						•					2015-10-01 23:59:59
	00:00	02:00 04	:00 06:00	06:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00 24:00
	š.										
	_	▶ II = ₩ >>		a 🔹 🗕 🗕							

2015	5 🔻	Oct		M	ain re	c	
Su	Мо	Tu	We	Th	Fr	Sa	
27	28	29	30	1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	
1	2	3	4	5	6	7	
1 2 3 4 5 6 7 Video type: All ▼ 1 ▼ 9 00 00 00 ↓ Start time 00 ↓ 00 ↓ 00 ↓ 00 ↓ End time 23 ↓ 59 ↓ 59 ↓ 59 ↓ Channel: ☑ ☑ 1 ☑ ☑ ☑ ☑ ☑ ☑ ☑ 9 10 11 12 ☑							
Search Record list>>							

If the date is marked as color green, it means there is recording.





Recording playback window: Video window, play time-line, play control button, window switch...

Channel 📃	Start time	End time	Video type:	Status
				- D
	Fi	irst Prev. Next Last E	Backup	Page 1/1

Record list: It displays all the record. Click backup download video file to local computer hard disk.

3.4. MAINTENANCE

3.4.1. BASIC INFORMATION

View ME	OVR 💾 Playback	Live view	📰 Maintenace	Dog III Config	G
				Current State History State	
O	Video Fault				
Basic Information				1 Camera Damaged 2 Camera por contract 3 The camera is not installed	
O_O Device Module				1 Camera Damaged 2 Cumera pour contact 3.The camera in not installed	
				1 Camera Damaged 2 Camera poor contact 3 The camera is not installed	
Storage Device					
6				1 Camera Damaed 2 Clamera poor contact 3 The Camera in not installed	
Version Information	Storage State				

Basic information: It contains the current state & history state of channel video and storage.

			Current State History State
Video Fault	Channel1	1.Camera Damaged 2.Camera poor contact 3.The camera is not installed	ł
	Channel2	1.Camera Damaged 2.Camera poor contact 3.The camera is not installed	1
		1.Camera Damaged 2.Camera poor contact 3.The camera is not installed	4
	Channel4	1.Camera Damaged 2.Camera poor contact 3.The camera is not installed	ł.
	Channel5	1.Camera Damaged 2.Camera poor contact 3.The camera is not installed	1
	Channel6	1.Camera Damaged 2.Camera poor contact 3.The camera is not installed	đ
		1.Camera Damaged 2.Camera poor contact 3.The camera is not installed	ł
	Channel8	1.Camera Damaged 2.Camera poor contact 3.The camera is not installed	i.
Storage State	HDD1	1.Not compatible with HDD 2.No HDD 3.HDD cable is loose inside 4.Sofrware Problems	the box

3.4.2. DEVICE MODULE

Device module: It is about the current state of module, WIFI module and satellite location module.

Module1	Network type	Unknown
	Moduel status	exist
	SIM card status	No SIM card
	Signal	211 (0 dBm)
	Dial status	Unknown status
Module2	Network type	Unknown
	Moduel status	not exist
	SIM card status	No SIM card
	Signal	911 (0 dBm)
	Dial status	undefined
WIFI Module	Moduel status	not enabled
	Signal	
Satellite Location Module	Moduel status	Invalid GPS Signal
	Signal	<u>en</u>
	Location plant number	0

3.4.3. STORAGE DEVICE

Storage device: There are the volume information & format operation of storage (hard disk/flash drive/SD card), and the path of snap & record backup.

Storage Name		
HDD	None	
SD(Internal)	None	
Flash drive	None	
Local storage		
Snap Path	C:\Users\Administrator\NVR\	Browse
Record backup path	C:\Users\Administrator\NVR\	Browse

$3.4.4.\,\text{VERSION}\,\text{INFORMATION}$

Version information: There are device type, name, firmware version, MCU version, CP3/4 version, upgrade, configuration file export and configuration file import.

Device Type	
Name	
Firmware version	
MCU version	
CP3/4 Version	
Upgrade	
Config file export	
Config file import	

≻ Log

Playback	Live view	📰 Maintenace	🗐 log	Config			
Log type Operation log	•		Time 2015-10-16			Search	
Opreate type All type	Ÿ		From 00:00:00	To 23:59:59		Export	
Opreate type	Time			Information			
	Ha	ave found 0 data	The 0 / 0 Page	First Prev	. Next	Last	

Log: There is Log type (operation log, alarm log and locked log), operation type (IO alarm, panel alarm, speed alarm, video loss and ACC alarm) date, and log export.

3.5. CONFIGURATION

View MDVR	Playback	Live view	Maintenace	🔲 log	뷰뷰 Config		
Basic Setup							
Regist info				De des late			
Time setup				Device Into		0082000E86	
(¹) Startup				Device ID		0	
				Vehicle Info			
Ser setup				Vehicle Num		5678911122	
Network				Vehicle Plate		GK345678	
Application				Line number		2305	
Surveillance				Driver Info			
				Driver number		123	
Record				Driver name		456	
PC setup							Save
Collection							
General							
Snap Setting							
Alarm							
O Base							
W ideo							
Advanced setup							

The parameter setting is the same as the local setting. User can view the operation at the local setting.

4.STORAGE CAPACITY CALCULATION

Resolution	Image	1	2	3	4	5	6	7	8
	quality								
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

1) Image Quality & Streams

2) Record File Size Calculation

Rec. file size for each channel is:

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

e.g. The file size of the Image 1 with D1 resolution within 1 hour:

3600 x 2048 Kbps / 8 / 1024 = 900 MB

Image Resolution quality 720P WD1 WHD1 Record WCIF (MB) D1 HD1 CIF

3) Image Quality & Resolution

5.FAQ

1) The system can't start?

Usually this problem results from the incorrect power connection. Please follow below steps to check the power connection:

- 1. Check the input power, whether the power wire is connected correctly, whether the ground wire is connected back to the battery, and whether the fuse on the power wire is in good condition.
- 2. Check whether the ACC signal wire input to the power is with voltage higher than 7 V.
- 3. Check whether the device key is closed.
- 2) The MDVR restarts uninterruptedly? Please follow below steps to check it:
- 1. Check whether the voltage of MDVR is insufficient. If the voltage is less than the start-up voltage of the device, the device would always restart.
- 2. The problem in hard disk/SD card may cause the failure to start. Take off the storage part and check whether it is broken down.
- 3) The device can't record?

Usually this problem results from the storage disk or camera. Please follow below steps to check it:

- 1. Check whether the storage disk is installed, whether it is in good contact, and whether the disk can be read normally in computer.
- 2. Check whether the storage disk is formatted. The storage disk should be formatted before normally storing record files.
- 3. Check whether there is video signal input into the device from camera, and whether there is video/image on the screen.
- 4) There is no voice in record file?

Please follow below steps to check it:

- 1. Check whether there is an external pickup, or whether the camera features with the function of audio collection.
- 2. Access to Video Channel Settings, check if Audio is set on.
- 3. There must be video input into the channel for recording and it must record normally.

5) The GPS works abnormally?

Please follow below steps to check it:

- 1. Check whether the GPS antenna is installed correctly. There is a silk print logo on the GPS antenna holder behind the host device.
- 2. Check whether the antenna receiver is sheltered. It should not be covered by any stuff, which may cause it not to receive signals.
- 3. Environmental influence such as tree shades, being inside tunnel, driving near tall building or elevated roads, thunderstorms or other weather influence, etc. can also cause signal loss or receiving wrong signals.

6) The device can't shutdown in ignition switch mode? Please follow below steps to check it:

- 1. Check if the ACC line connection mode is correct; and check whether there is voltage on ACC yellow line when the key is turned off.
- 2. If the device has been set with schedule recording, it can't shutdown if it is still during recording time

of the task table.

- 7) Which IP waterproof level does device support? Currently, PRO7444IP support waterproof IP 54.
- 8) How to install the WIFI antenna? The antenna must be installed on unobstructed place of the roof, and be fixed with glue.

9) The device cannot be shut down when in ignition ON/OFF mode.

Check if the ACC signal wiring is correct and if there is voltage for ACC signal line after the key is turned off .

If you have set timing recording, and at the current time it is still in task recording, the device may be impossible to be shut down.

10) GPS anomaly.

Check if the GPS antenna is properly installed. There is silkscreen GPS identification on the GPS antenna pedestal on the back of the MDVR device. Check if the antenna connector is blocked and make sure the antenna connector not be covered by other things.

Trees block, being inside the tunnel, driving near tall buildings or viaduct, thunderstorms and other environmental effects may also cause to receive no GPS signal or error signal.

11) No voice in video files.

See if there is an external microphone, or if the camera cannot capture audio;

Enter into the video channel settings, then check if the audio is open;

Ensure video input and normal recording, on which the audio recording channels must be based.

12) The device doesn't record.

Make sure the storage part is installed and of fine contact, the data can be read on PC, and the storage device is not formatted.

Check if there are video signal input to the main device, and whether there are video images in the channel pictures.

13) Why has the MDVR device always been in a state of restart?

Check whether the MDVR device voltage is insufficient. If the device voltage does not reach the start voltage, the device will restart.

Hard disk or SD card may cause the MDVR device unable to start. You need to remove the storage device and then boot up to verify whether it is caused by the storage device.

14) Why the MDVR device cannot start?

Check the device input power to see if the power wiring is correct, if there is ground wire connected back to the battery, and if the fuse of the power wire is in good condition;

Check whether there is voltage(more than 7V) on power input ACC signal wire;

Check whether the hard disk key is turned off.

15) What is the log in user name and password for new device?

The default user name and password are both "admin". The device password can be set as empty.

16) How to update the firmware?

Change the previous file folder name "dvrupgrade" to "upgrade".

17) In the ON/OFF of basic settings, the low voltage protection is 8V, why?

After testing, when the battery is lower than 8V, the voltage will lower down quickly. Therefore the lowest voltage is set to be 8V. When it is lower than 8V, the MDVR device will recognize it as external power-off and then enter into shutdown state.