

User Manual

For DS2

Mobile Digital video recorder kit

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.

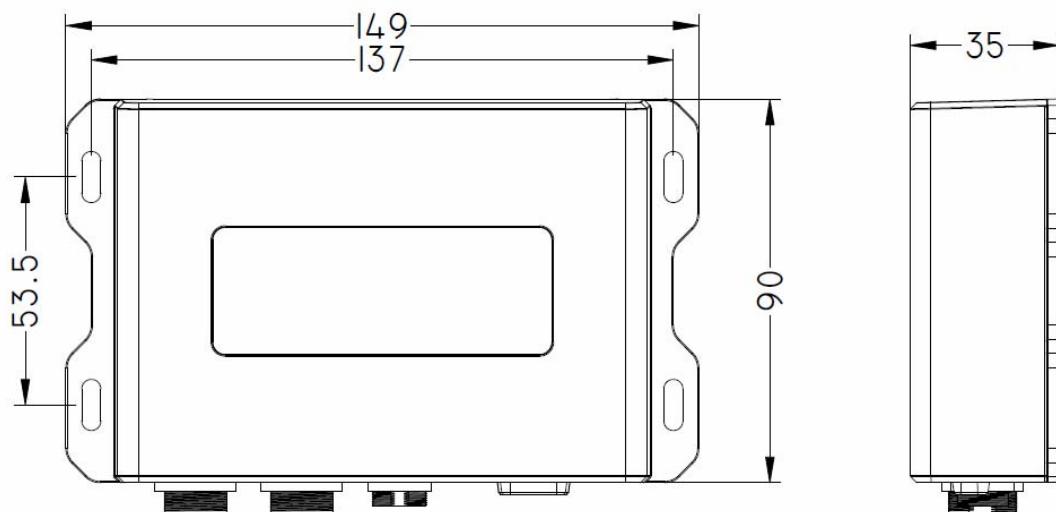
Contents

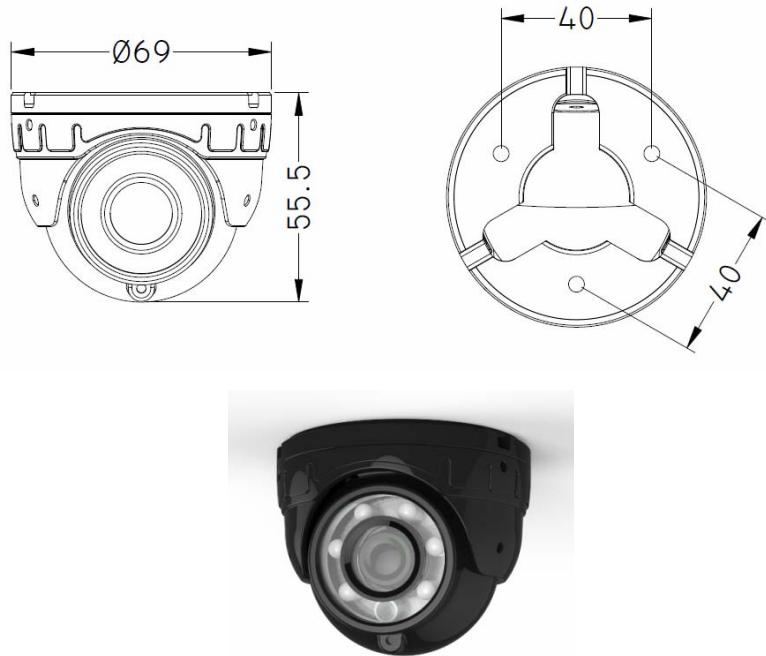
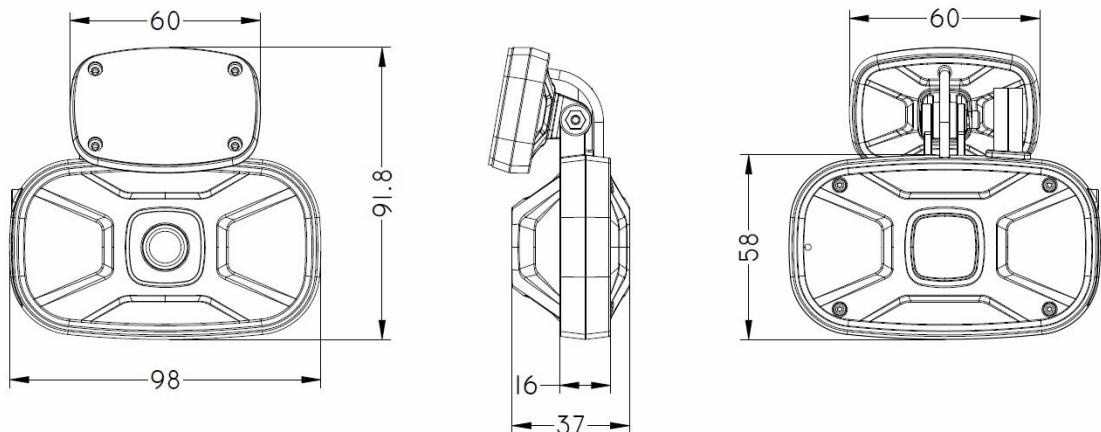
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1. Product Characteristics

1.1. Effect Image

1) OBD Box



2) Second Camera**3) DS-2 Master Camera**

1.2. Specifications

OBD Box

Items	OBD Box	
Power	Input	DC8V-DC36V
	Standard	ISO7637.2-2004
	Output	DC7.5V±10%
	Emergency backup	Super capacitance, support 5 seconds power supply
Connector	Power	9PIN aviation connector (include power、AAC、2 I/O)
	OBD	8PIN aviation connector
	IPC	6PIN aviation connector(Power for IP Camera+2 RS232)
	RS232	DB9 Connector
	IO	2CH I/O
OBD	OBD module	Support standard OBD protocol
RTC	High-precision RTC	±8 Second error, support GPS time sync
Other	Temperature	-40°C-+70°C
	Humidity	0% - 90%
	Power dissipation	<2w
	dimension	149MM(L)x90MM(W)x35MM(H)

DS2 Master Camera

Items	Master Camera	
Basic	Imaging device	1/3" CMOS SONY IMX225
	Effective pixel	1280(H)x720(V)
	Signal system	50/60 Hz
	Minimun illumination	0.05Lux(Color illumination),F1.2;
	Speed of shutter	1/25-1/1000 second
	White balance	Automatic/Outdoor/Indoor/Standard mode
	WDR	Digital WDR, ≥80db
	BLC	Support
	S/N	≥40db
Lens	Type	M12
	Aperture	F2.6 fixed
	Camera	Fixed 4mm
	Field angle	Horizon 73°,vertical 41°(16:9)
Video/	Compression	H.264 BP/MP/HP

Audio	Bitrate	32Kbps-6Mbps
	Resolution	Main stream:720p(1280*720) Sub stream:360P(640*360)
	Frame rate	Main stream:720P(1-30 FPS, default 30 FPS) Sub stream:360P(1-15 FPS, default 15 FPS)
	CBR/VBR	Optional
	Bulit-in MIC	Support
	Audio format	ADPCM、G.711A G.711U
Image	Resolution	1280x720(720P)
	Frame rate	30FPS
	Image settings	Chroma, Contrast, Saturation, Acutance
Network	Connector	6pin Din-jack,10M/100M Self-adapting
	WIFI	Support 802.11b/g/n, support AP/Station Mode switch
	Protocol	HTTP,TCP,ARP,RTSP,UDP,RTCP,SMTP,DHCP,DNS,D DNS,PPPoE,IPV4,UPnP,NTP
	Client view	Bilit-in Web Server, support IE
	Configuration mode	Easy check
Location	GPS system	Support position, altitude, speed and time information to update data per second and video overlay
Inertia sensor	6-axis	Support data acquisition and recording of vehicle driving state acceleration
Connector	network	PON(DC12V+ Ethernet port)
	Expend interface	2 RS232 interface
	SD card	Max support 128G ,Class 10
LED	LED lights	3pcs; Power(Red): Light on: means power on, light off: means power off; Recording(Green): Light on means recording, light off means not recording; Alarm(Yellow): Light on means alarm triggered, light off means no alarms.
Storage	Attached SD card	1 Pcs SD card for recording
Others	Temperature	-40°C - +70°C
	Humidity	0% - 90%
	Power	PON(DC7V-DC14V)
	Power dissipation	<3w
	Dimension	98MM(L)x91.8MM(W)x37MM(H)

Second Camera

Item	Second Camera	
Basic	Sensor	1/4" CMOS OmniVision OV09732
	Effective pixels	1280(H)x720(V)
	Signal	50/60 Hz
	Minimum illuminance	0.1Lux(color mode),F1.2;
	Shutter speed	1/25 - 1/10000 Second
	Day/Night mode	IR-CUT
	WDR	Digital WDR, ≥60db
	BLC	Support
	S/N	≥38db
	IR Distance	<5m
Lens	Type	M12
	Aperture	Fixed F2.2
	Lens	2.6mm, 1/4"
	Filed Angle	Horizontal: 93°, Vertical: 52°(16:9)
Video/ Audio	Compression	H.264 BP/MP/HP
	Bitrate	32Kbps-6Mbps
	Resolution	Main stream:720p(1280*720) Sub stream:360P(640*360)
	Frame rate	Main stream:720P(1-15FPS, Default:15FPS) Sub stream:360P(1-12FPS, Default:10FPS)
	CBR/VBR	Optional
	Built-in MIC	Support
	Audio format	ADPCM、G.711A G.711U
Image	Resolution	1280x720
	Frame rate	15 FPS
	Image settings	Chroma,Contrast, Saturability, Acutance
Network	Connector	6pin Din-jack,10M/100M Self-adapting
	Protocol	HTTP,TCP,ARP,RTSP,UDP,RTCP,SMTP,DHCP,DNS,DDNS,PPPoE,IPV4,UPnP,NTP
	Client view	Built- in WEB Server, support IE
Others	Temperature	-40°C - +70°C
	Humidity	0% - 90%
	Power	PON(DC7V-DC14V)
	IP class	IP65, with audio
	Power dissipation	<1.5w (Day mode) <2.5w(B/W mode)
	Dimension	69MM(D)x55MM(H)

2. Quick Guide

2.1 Hardware Connection



2.2 Basic Operation

Attention: When devices power on, DS2 will work as wifi AP mode, and there are 10 minutes to connection, It will switch to client mode after 10 minutes, then It will be always working as wifi client mode until the next restart.

2.2.1 How to login on PC

- 1) Connect wifi AP via laptop.



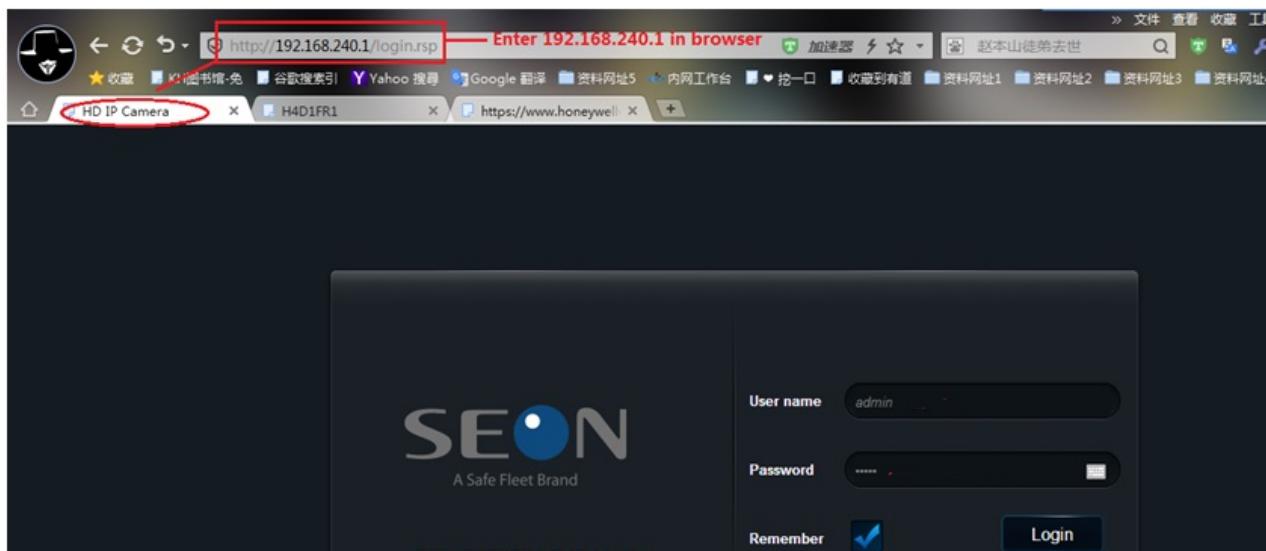
2) Connect DS2 via web browser

Defaults:

Ip address about wifi AP : 192.168.240.1

Username: admin

Password:11111111



2.2.2 Install Activex

- 1) Interface will pop up a window to install N9M activex, click install.
- 2) Refresh the web page, enter default user name and password admin/admin or null to log in.

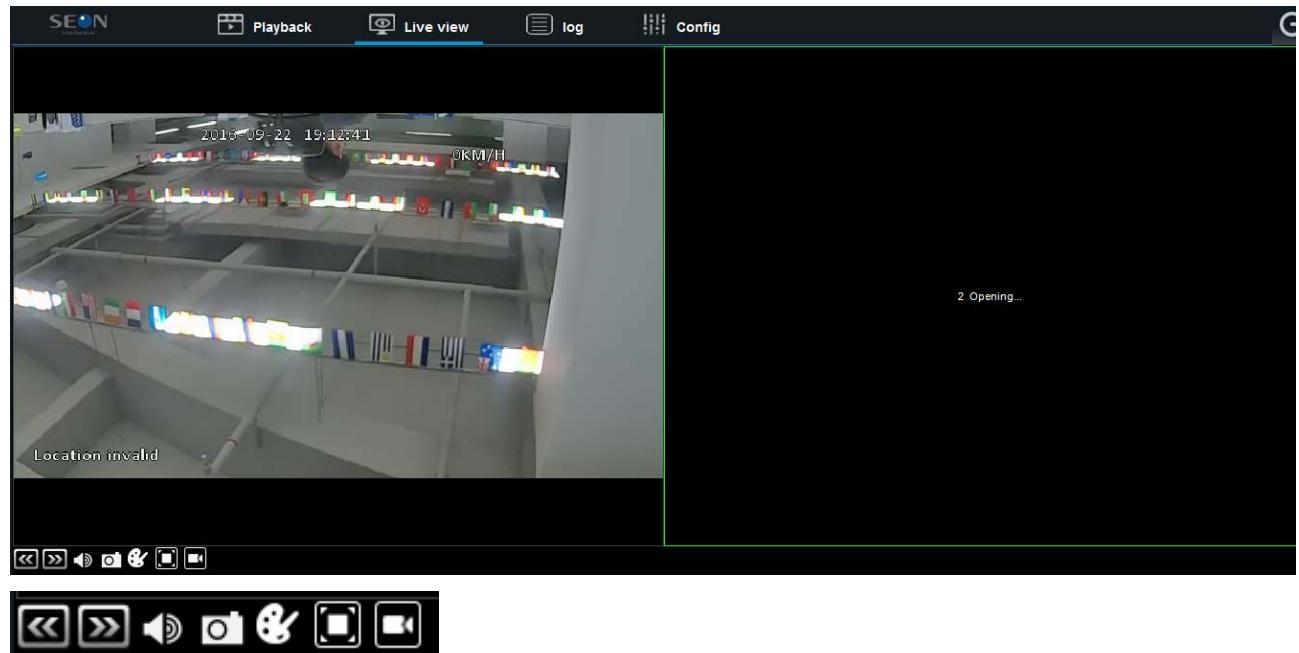


Please follow the steps below if Activex can not install normally:

- 1) Set the browser security level to “Low”.
- 2) Enable all the active-x option in browser security settings.
- 3) Add the current site to the trust list of browser.
- 4) Use Internet Explorer instead of other brwosers.

3. Web Features

3.1 Live View

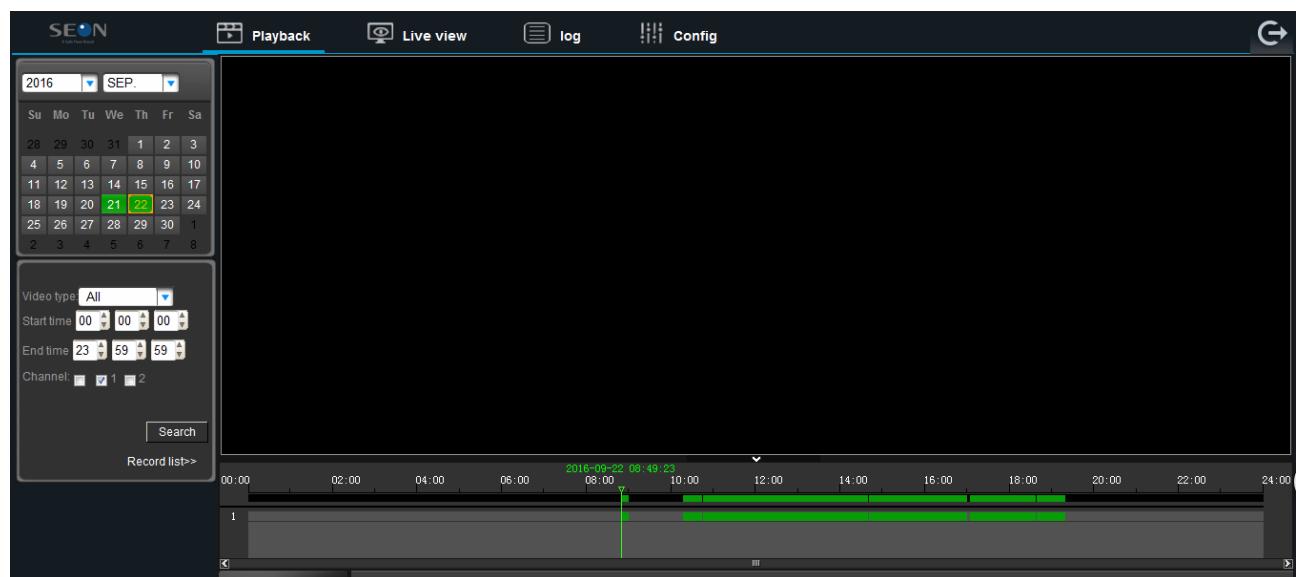


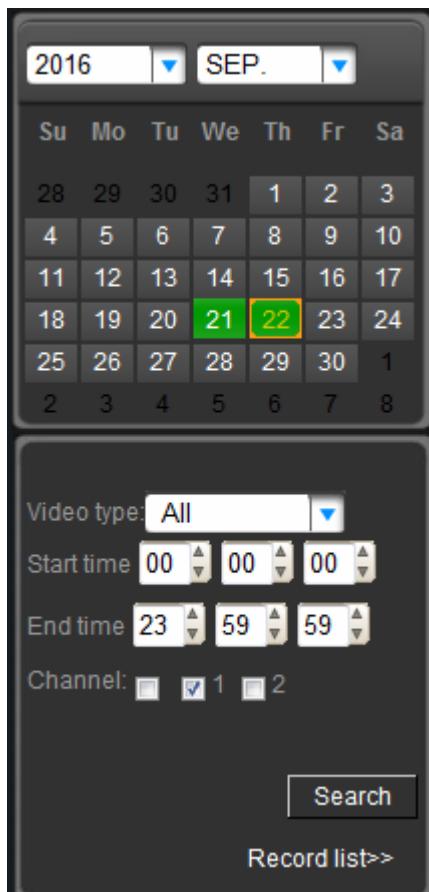
Icons: previous and next page, sound, capture, video parameters, original/full, record.



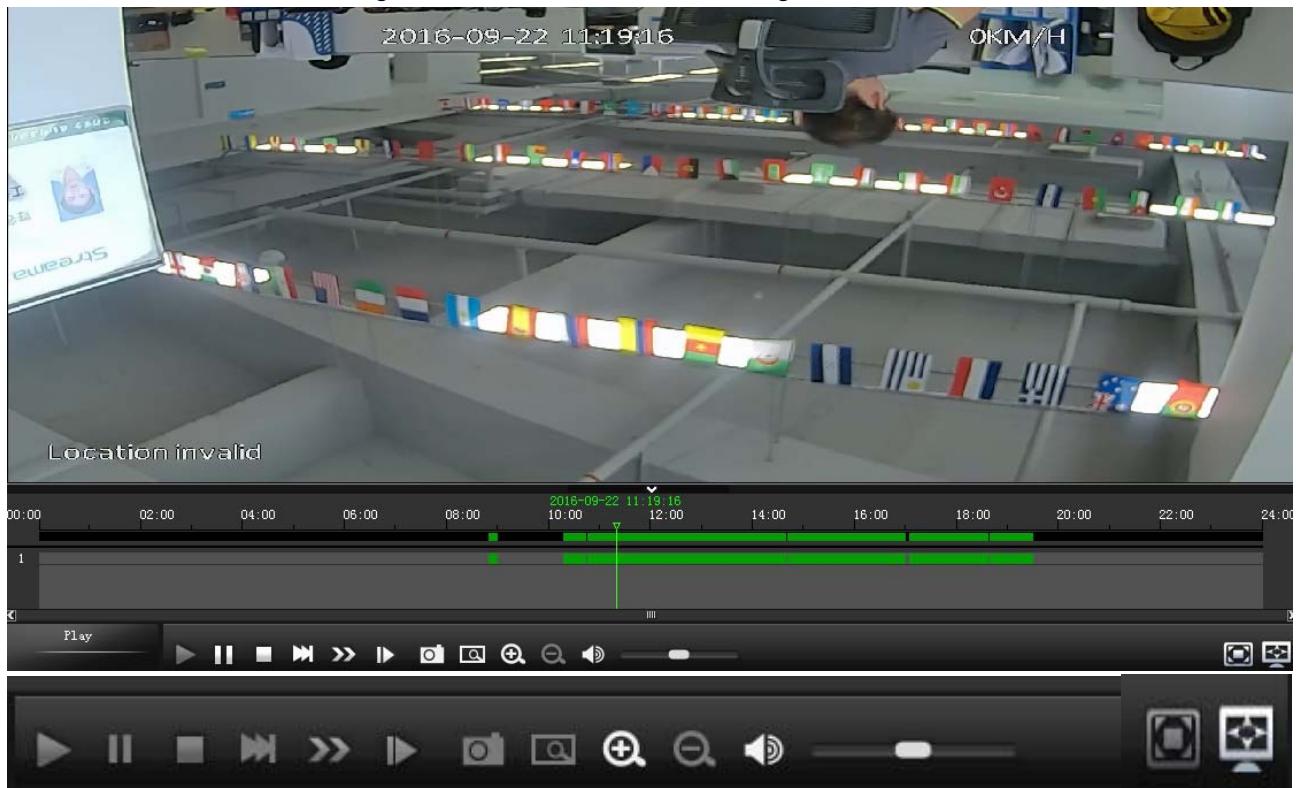
Log out: log out and come to the log in interface

3.2 Playback





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



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

Channel █	Start time	End time	Video type:	Status
█ 1	08:49:23	09:00:14	Normal	
█ 1	10:16:46	10:44:13	Normal	
█ 1	10:45:58	14:39:29	Normal	
█ 1	14:40:22	16:59:53	Normal	
█ 1	17:04:37	18:37:28	Normal	
█ 1	18:38:15	19:20:06	Normal	

First Prev. Next Last Backup Page 1/1

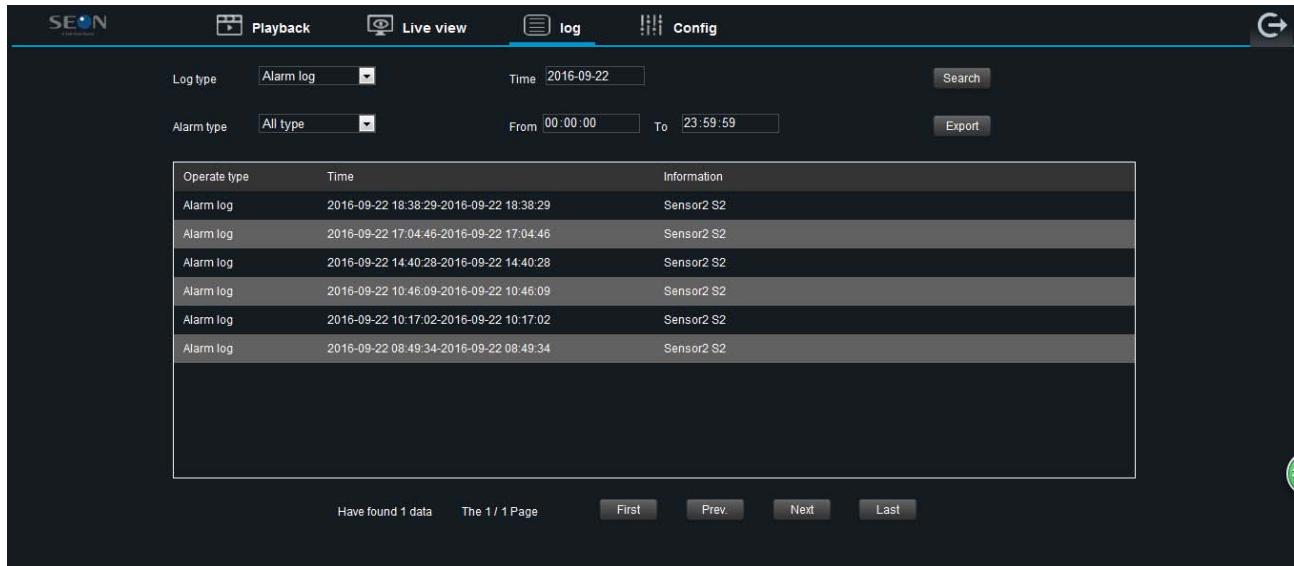
Record list: It displays all the record. Click “backup” to download video file to local computer hard disk, as below:

Channel █	Start time	End time	Video type:	Status
█ 1	08:49:23	09:00:14	Normal	Cancel [Progress Bar] 20.72%
█ 1	10:16:46	10:44:13	Normal	
█ 1	10:45:58	14:39:29	Normal	
█ 1	14:40:22	16:59:53	Normal	
█ 1	17:04:37	18:37:28	Normal	
█ 1	18:38:15	19:28:18	Normal	

First Prev. Next Last Backup Page 1/1

Tip: when backup, you can open another same website to see live view without other operations.

3.3 Log



The screenshot shows the Streamax log interface. At the top, there are tabs for Playback, Live view, log (which is selected), and Config. Below the tabs are search and export buttons. The main area displays a table of log entries. The columns are Operate type, Time, and Information. The entries are as follows:

Operate type	Time	Information
Alarm log	2016-09-22 18:38:29-2016-09-22 18:38:29	Sensor2 S2
Alarm log	2016-09-22 17:04:46-2016-09-22 17:04:46	Sensor2 S2
Alarm log	2016-09-22 14:40:28-2016-09-22 14:40:28	Sensor2 S2
Alarm log	2016-09-22 10:46:09-2016-09-22 10:46:09	Sensor2 S2
Alarm log	2016-09-22 10:17:02-2016-09-22 10:17:02	Sensor2 S2
Alarm log	2016-09-22 08:49:34-2016-09-22 08:49:34	Sensor2 S2

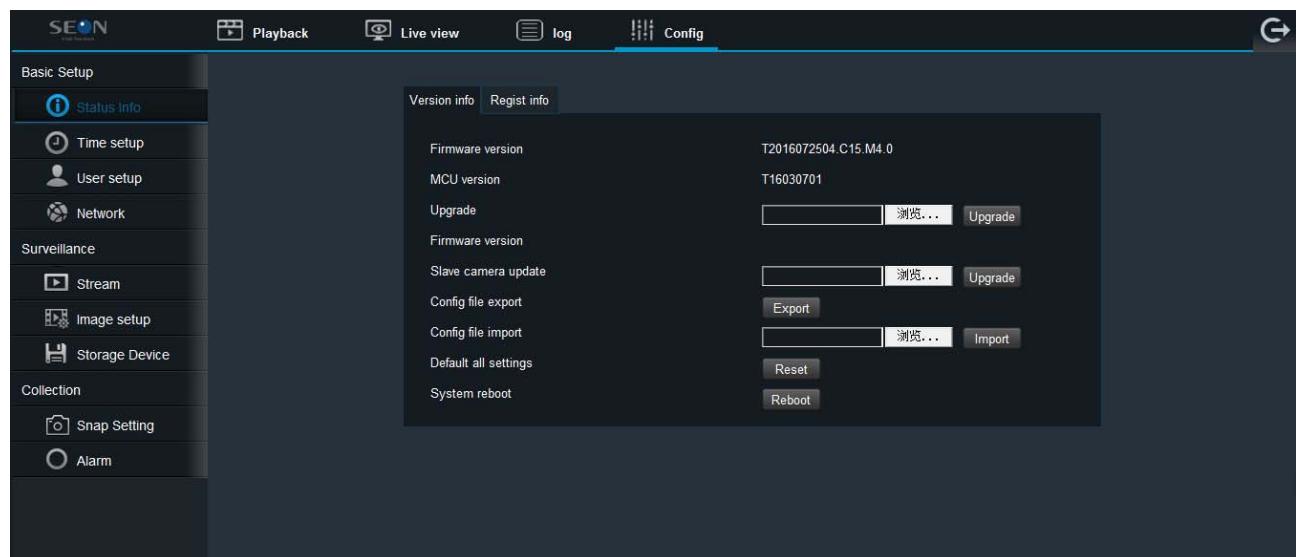
At the bottom, there are buttons for First, Prev, Next, and Last, and a message indicating 1 data found.

There are different types of log: Alarm log, Operation log, Locked log. Choose the target time and alarm type, then export the logs in ".xlsx" format.

3.4 Config

3.4.1 Basic Setup

3.4.1.1 Status info



The screenshot shows the Streamax basic setup status info interface. The left sidebar includes sections for Basic Setup (status info, Time setup, User setup, Network), Surveillance (Stream, Image setup), Collection (Storage Device, Snap Setting, Alarm), and a Collection section. The main area is titled 'Status info' and contains tabs for Version info and Regist info. The Version info tab displays the following information:

Firmware version	T2016072504.C15.M4.0
MCU version	T16030701
Upgrade	<input type="button" value="浏览..."/> <input type="button" value="Upgrade"/>
Firmware version	<input type="button" value="浏览..."/>
Slave camera update	<input type="button" value="浏览..."/> <input type="button" value="Upgrade"/>
Config file export	<input type="button" value="Export"/>
Config file import	<input type="button" value="浏览..."/> <input type="button" value="Import"/>
Default all settings	<input type="button" value="Reset"/>
System reboot	<input type="button" value="Reboot"/>

Version info

Version info	Regist info
Firmware version	T2016072504.C15.M4.0
MCU version	T16030701
Upgrade	<input type="button" value="浏览..."/> <input type="button" value="Upgrade"/>
Firmware version	
Slave camera update	<input type="button" value="浏览..."/> <input type="button" value="Upgrade"/>
Config file export	<input type="button" value="Export"/>
Config file import	<input type="button" value="浏览..."/> <input type="button" value="Import"/>
Default all settings	<input type="button" value="Reset"/>
System reboot	<input type="button" value="Reboot"/>

Features:

- 1) Shows the version & register info;
- 2) Upgrade DS2 firmware or slave camera firmware;
- 3) Import or export the config files;
- 4) Default all the settings;
- 5) Reboot.

Register info

Version info	Regist info
Device Info	
Serial number	0031000024
Device ID	<input type="text" value="0"/>
Vehicle Info	
Vehicle Plate	<input type="text"/>
Vehicle Num	<input type="text"/>
Line number	<input type="text"/>
Driver Info	
Driver number	<input type="text"/>
Driver name	<input type="text"/>

This page contains the Device info, Vehicle info, Driver info.

3.4.1.2 Time setup

General:

General	Time Sync	DST
Date format	YEAR-MONTH-DAY	
Time format	24 Hours	
Time Zone	(GMT+08:00)BEIJING,CHONGQING,HC	
<button>Default</button> <button>Save</button>		

Date format: Setup the date format of device

Time format: 24 hours or 12 hours

Time zone: Range from -12th district ~ +13th district

Time Sync:

General	Time Sync	DST
Manually		
Date/Time	2016-09-22	20: 16: 09
	<button>Change time</button>	<button>Sync with PC</button>
Auto		
NTP sync	<input type="checkbox"/>	
<button>Default</button> <button>Save</button>		

Manually: Adjust the system time manually.

Auto: Sync the system time with Network server, just like "time.windows.com", etc.

General Time Sync DST

Manually

Date/Time 2016-09-22 20: 22: 30

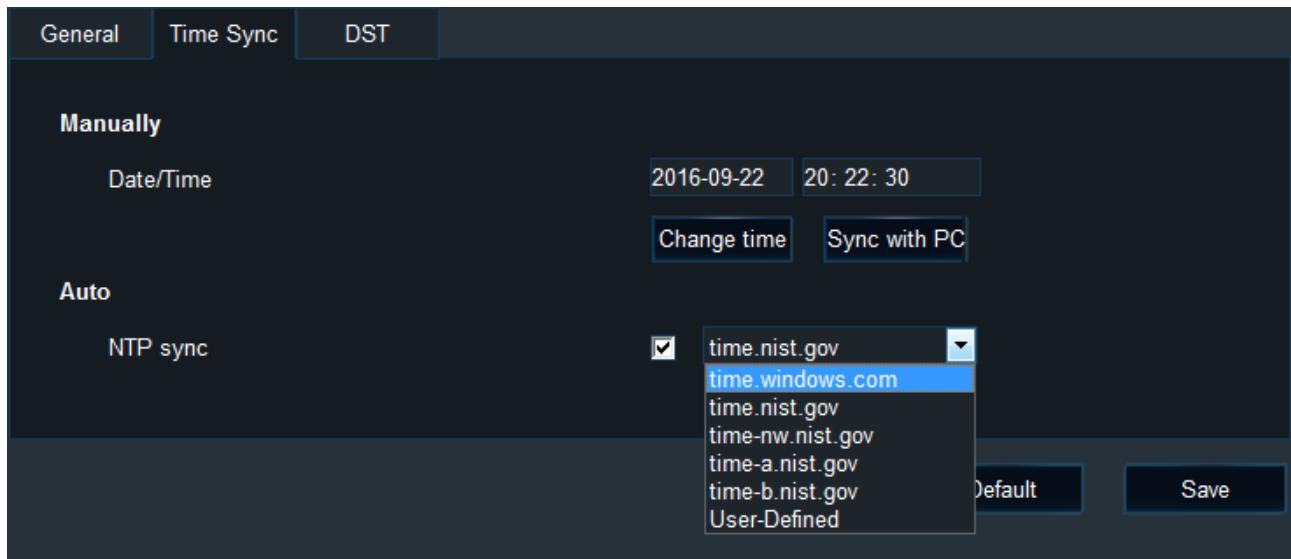
Change time Sync with PC

Auto

NTP sync time.windows.com

time.nist.gov
time.windows.com
time.nist.gov
time-nw.nist.gov
time-a.nist.gov
time-b.nist.gov
User-Defined

Default Save

**DST :**

General Time Sync DST

Enable

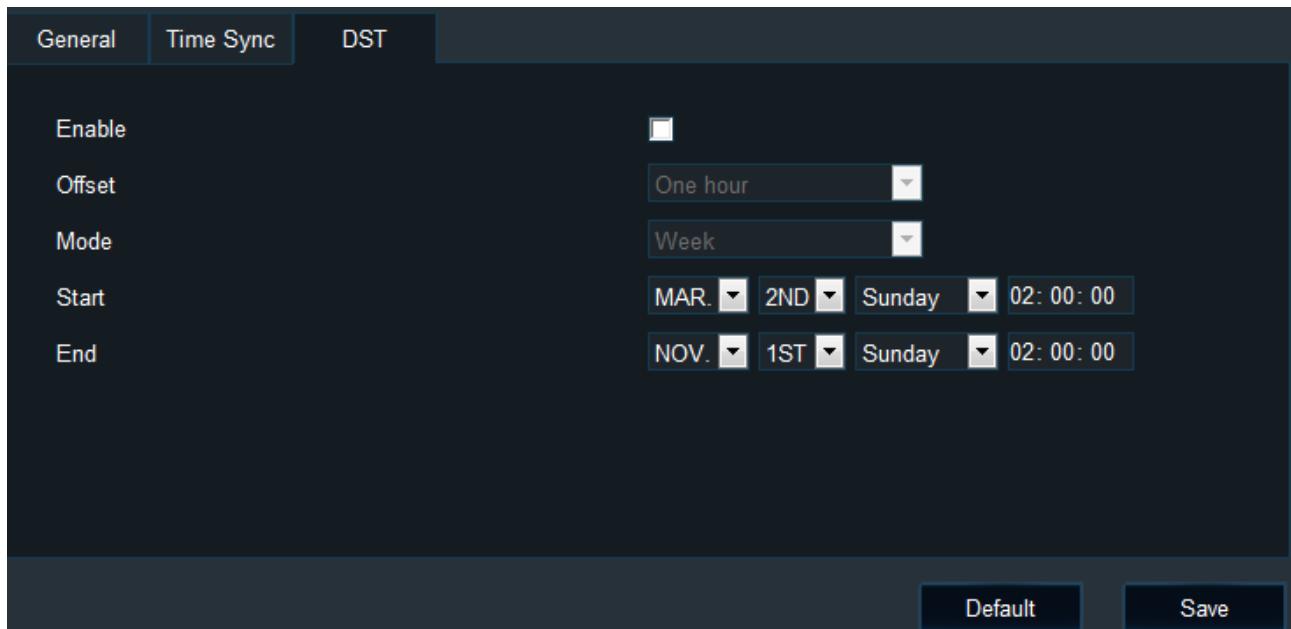
Offset One hour

Mode Week

Start MAR. 2ND Sunday 02: 00: 00

End NOV. 1ST Sunday 02: 00: 00

Default Save



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

Don't forget to save the settings after configuration.

3.4.1.3 User setup

	User name	User group
<input checked="" type="radio"/>	admin	Admin
<input type="radio"/>	user	Normal user

Add **Delete** **Edit**

User name: admin and nomral user are as default.

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

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

Supports add user function. Click "Add" button, then enter the following interface.

	User name	User group
<input checked="" type="radio"/>	admin	Admin
<input type="radio"/>	user	Normal user

Add **Delete**

Add

User name:

User group: Normal user

Password:

Confirm:

Cancel **OK**

Click "Delete" button, then the following interface will appear.

	User name	User group
<input checked="" type="radio"/>	admin	Admin
<input type="radio"/>	user	Normal user

Delete

 Are you sure to delete this user?

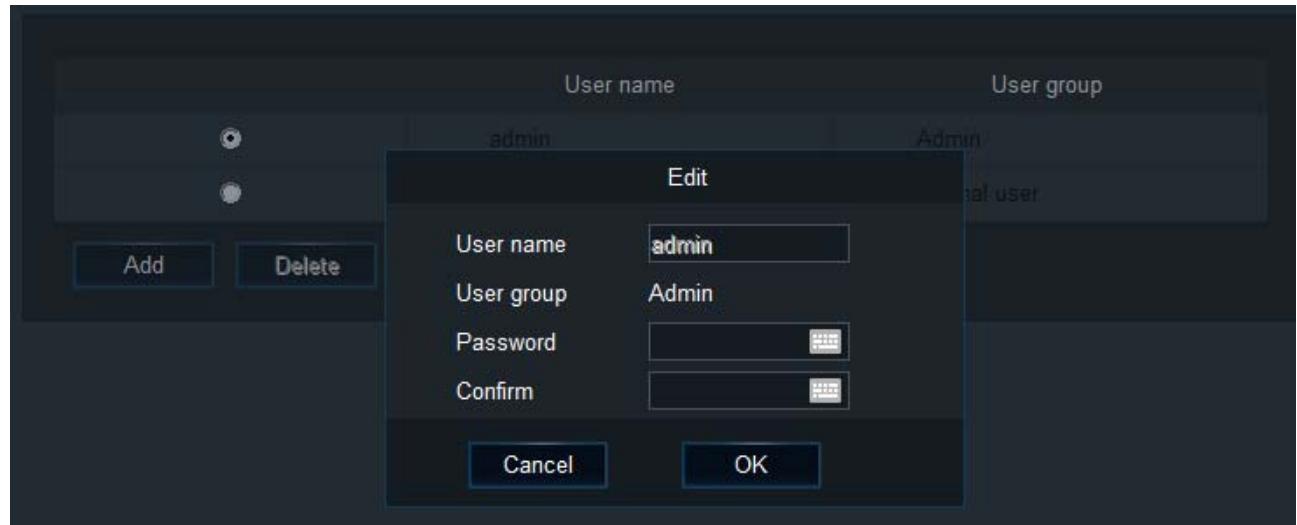
OK **Cancel**

Note:

- 1) Only administrator is able to add users.

- 2) Maximum Users is 2.
- 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" button, enter the following interface:



3.4.1.4 Network

WIFI	Server setup
WIFI setup	
ESSID	<input type="text"/>
Encryption	<input type="button" value="None"/>
Password	<input type="text"/>
Static IP	<input type="checkbox"/>
IP address	192.168.1.100
Subnet mask	255.255.255.0
Gateway	192.168.1.1
AP	
ESSID	0031000024
IP address	192.168.240.1
Station	
Signal	
IP address	

Default **Save**

WIFI setup:

ESSID: Input the address of wifi AP manually.

Encryption: It supports NONE, WEP and WPA

Password: Manually input

Static IP: Connect wifi with a fixed ip address.

AP and station: fixed value.

Server setup:

Server1	
	Action
ON	<input checked="" type="checkbox"/>
Protocol type	N9M
Enable network	WIFI
Register server IP	192.168.1.0
Register server port	5556
Media server IP	192.168.1.0
Media server port	5556

Save

ON: Enable the server.

Protocol type: The default one is N9M.

Enable network: There is local, WIFI and module optional.

Note: "Local" means cable network, "WIFI" means wifi works as client mode, "module" means 2G/3G/4G, there is no "module" for DS2 in phase 1, it is reversed for phase 2.

Register server IP: Registration server address.

Registration server port: register server port, defaulted as 5556.

Media server IP: Media server address.

Media server port: Media server port, defaulted as 5556.

Note: There is no server running for DS2 for now, Seon didn't request any customized server from Streamax, so the whole server option here is reversed function only and it is not in normal use.

3.4.2 Surveillance

3.4.2.1 Stream

General

General Main stream Sub stream Audio Frequency

Overwrite: By capacity

Lock duration: 1 (1~31) Day

Default Save

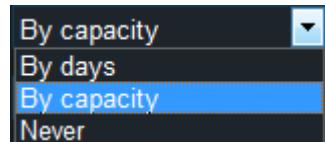
Overwrite: It means how to overwrite the data in SD card.

There are 3 options:

“By capacity” means when SD card is full then the record will be overwritten from the beginning.

“By days” means SD card will start to be overwritten after the days being set here was passed, even the SD card is not full it will also start the overwrite.

“Never” means SD card will never being overwritten, when SD is full ,then recording will stop.



Main stream

General Main stream Sub stream Audio Frequency

Channel: 1

Channel Name: CH1

Enable:

Resolution: 720P

Frame rate: 30

Bit rate: 2560 kbps

Record mode: Power up

Audio:

I Frame:

Alarm quality: 2

Encode mode: VBR

Default Save

Channel: There are 2 channels for DS2, master camera channel and second camera channel.

Channel name: The name of the channel.

Enable: Enable or disable the channel.

Resolution: There are 720P, 360P optional.

Frame rate: Record frame rate, range from 1 to 30.

Bit Rate: Record bit rate, range from 500kbps to 6000kbps.

Record mode: There are 3 options:

“power up”, means DS2 will start to record after boot up.

“Timer”, means user can set the record as schedule.

“Alarm”, means record when alarm triggered only.

Audio: Enable or disable to record audio.

I Frame: means DS2 will record I frame only when there is no alarm triggered.

Alarm quality: means what quality level of image will be recorded when alarm triggered.

Encode mode: there are VBR and CBR optional, VBR means record bit rate will adjustable from the environment, CBR means record bit rate will always the same.

Sub stream

General	Main stream	Sub stream	Audio Frequency
Channel	1		
Enable	<input checked="" type="checkbox"/>		
Resolution	360p		
Frame rate	15		
Bit rate	1024	kbps	
Encode mode	VBR		
<button>Default</button> <button>Save</button>			

Channel: There are 2 channels for DS2, master camera channel and second camera channel.

Enable: Enable or disable the sub stream for the current channel.

Resolution: There are 360P, VGA optional.

Frame rate: Record frame rate, range from 1 to 15.

Bit Rate: Record bit rate, range from 150kbps to 1600kbps.

Encode mode: there are VBR and CBR optional, VBR means record bit rate will adjustable from the environment, CBR means record bit rate will always the same.

Audio Frequency

General	Main stream	Sub stream	Audio Frequency						
<table border="1"> <tr> <td>Enable</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Audio Format</td> <td>g.711alaw</td> </tr> <tr> <td>Audio Gain</td> <td>5</td> </tr> </table>				Enable	<input checked="" type="checkbox"/>	Audio Format	g.711alaw	Audio Gain	5
Enable	<input checked="" type="checkbox"/>								
Audio Format	g.711alaw								
Audio Gain	5								
<input type="button" value="Default"/> <input type="button" value="Save"/>									

Enable: Enable or disable the audio.

Audio Format: There are “g.711a”, “g.711u”, “adpcm”, “g726” optional.

Audio Gain: Different level of audio gain, from 1 (low) to 8 (high) optional

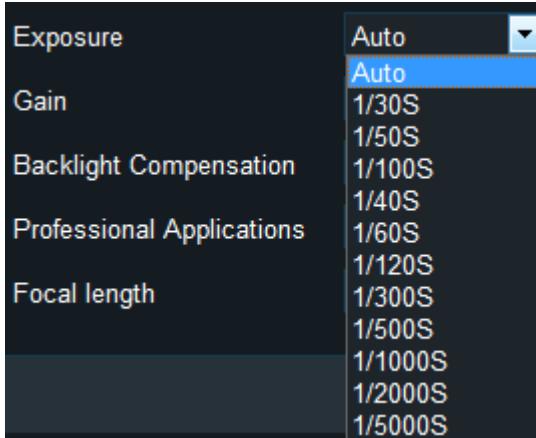
3.4.2.2 Image Setup

Video parameters	OSD																																										
<table border="1"> <tr> <td>Channel</td> <td>1</td> </tr> <tr> <td>BRI</td> <td><input type="range" value="32"/></td> </tr> <tr> <td>COL</td> <td><input type="range" value="32"/></td> </tr> <tr> <td>CON</td> <td><input type="range" value="32"/></td> </tr> <tr> <td>SAT</td> <td><input type="range" value="32"/></td> </tr> <tr> <td>SHA</td> <td><input type="range" value="32"/></td> </tr> <tr> <td colspan="2">  </td> </tr> <tr> <td>Day/Night Mode</td> <td>Day Mode</td> <td>Profile</td> <td>Standard</td> </tr> <tr> <td>Infrared Light</td> <td>OFF</td> <td>Anti-flicker</td> <td>OFF</td> </tr> <tr> <td>Exposure</td> <td>Auto</td> <td>Mirror</td> <td><input checked="" type="radio"/>able <input type="radio"/>Disable</td> </tr> <tr> <td>Gain</td> <td>(Auto)</td> <td>Flip</td> <td><input checked="" type="radio"/>able <input type="radio"/>Disable</td> </tr> <tr> <td>Backlight Compensation</td> <td>Low</td> <td>HLC</td> <td><input checked="" type="radio"/>able <input type="radio"/>Disable</td> </tr> <tr> <td>Professional Applications</td> <td>Inside the car</td> <td>WDR</td> <td>Auto</td> </tr> <tr> <td>Focal length</td> <td>4.0mm</td> <td colspan="2"></td> </tr> </table>		Channel	1	BRI	<input type="range" value="32"/>	COL	<input type="range" value="32"/>	CON	<input type="range" value="32"/>	SAT	<input type="range" value="32"/>	SHA	<input type="range" value="32"/>			Day/Night Mode	Day Mode	Profile	Standard	Infrared Light	OFF	Anti-flicker	OFF	Exposure	Auto	Mirror	<input checked="" type="radio"/> able <input type="radio"/> Disable	Gain	(Auto)	Flip	<input checked="" type="radio"/> able <input type="radio"/> Disable	Backlight Compensation	Low	HLC	<input checked="" type="radio"/> able <input type="radio"/> Disable	Professional Applications	Inside the car	WDR	Auto	Focal length	4.0mm		
Channel	1																																										
BRI	<input type="range" value="32"/>																																										
COL	<input type="range" value="32"/>																																										
CON	<input type="range" value="32"/>																																										
SAT	<input type="range" value="32"/>																																										
SHA	<input type="range" value="32"/>																																										
																																											
Day/Night Mode	Day Mode	Profile	Standard																																								
Infrared Light	OFF	Anti-flicker	OFF																																								
Exposure	Auto	Mirror	<input checked="" type="radio"/> able <input type="radio"/> Disable																																								
Gain	(Auto)	Flip	<input checked="" type="radio"/> able <input type="radio"/> Disable																																								
Backlight Compensation	Low	HLC	<input checked="" type="radio"/> able <input type="radio"/> Disable																																								
Professional Applications	Inside the car	WDR	Auto																																								
Focal length	4.0mm																																										

Day/Night mode: Auto.

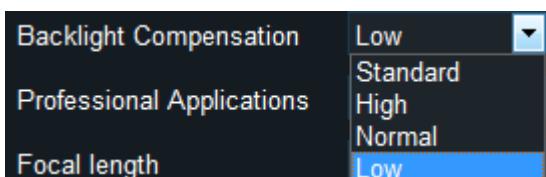
Infrared Light: Auto.

Exposure: Options as shown below, "Auto" mode is as default.

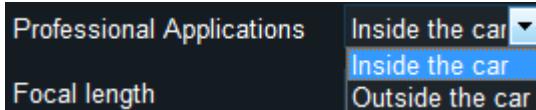


Gain: Auto.

Backlight Compensation: There are 4 options, as picture shows below:



Professional Applications: There are 2 options as below, "inside the car" means camera was installed inside of the car, "Outside the car" means camera was installed outside of the car. Camera will adjust to the light and moving speed to capture good image.



Focal Length: It is fixed.

Profile: There are 3 options as shown below:



Anti-flicker: There are 3 options as shown below, it adjust to the frequency of the lights.

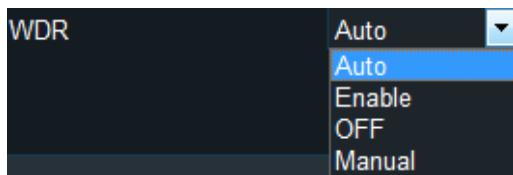


Mirror: Mirror the image.

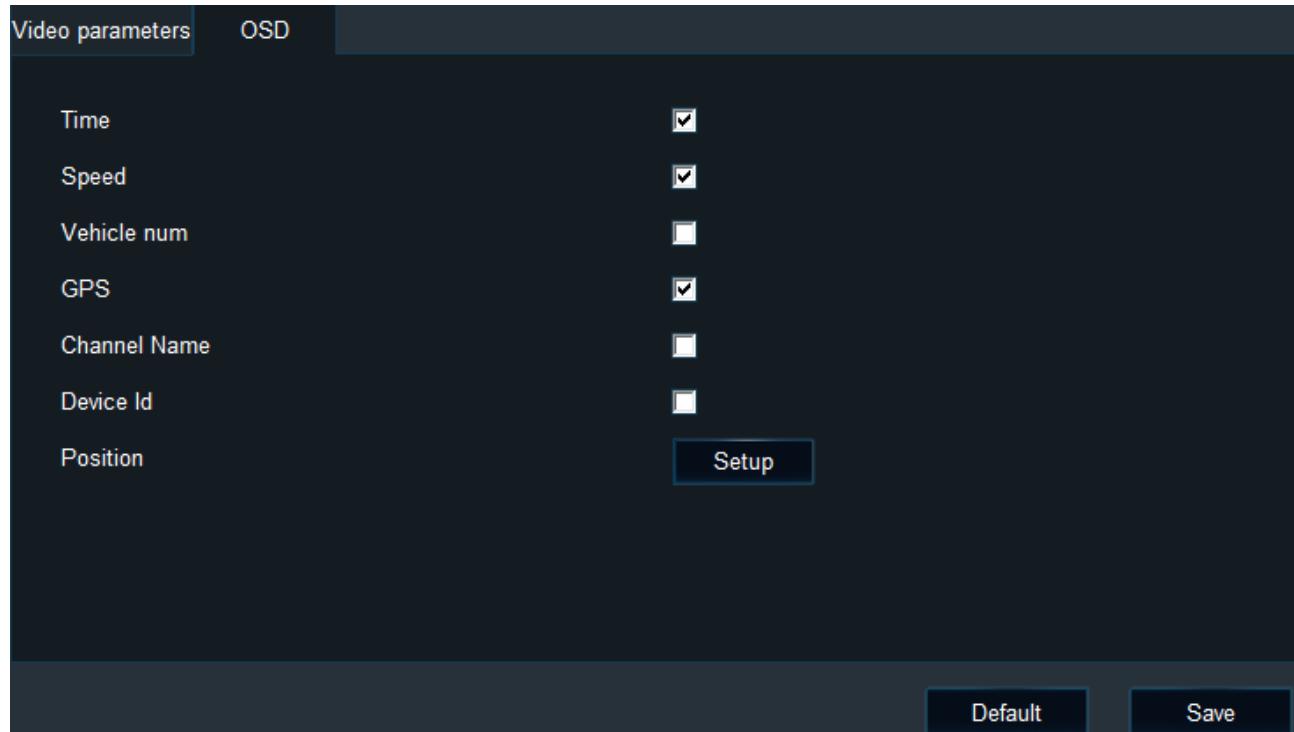
Flip: Reverse the image.

HLC: HighLight Compensation

WDR: Wide Dynamic Range, there are 4 options as shown below:

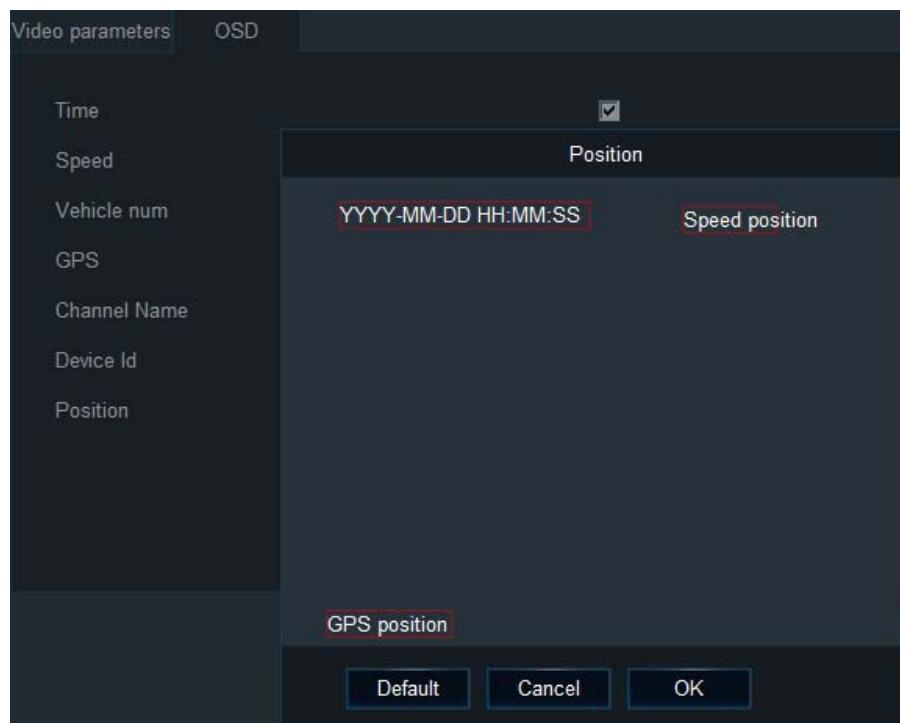


OSD



Choose to show the information on live view channel or not.

Click "Setup" button to adjust the position where the information will be shown.



3.4.2.3 Storage Device

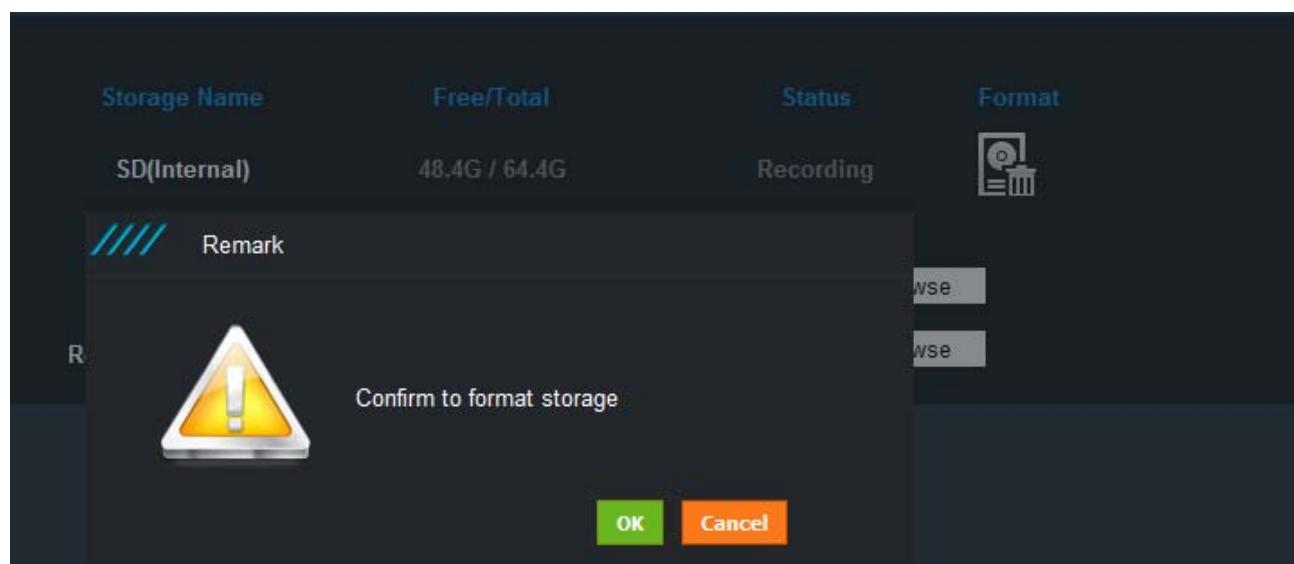
Storage Name	Free/Total	Status	Format
SD(Internal)	48.4G / 64.4G	Recording	
Local storage			
Snap Path	C:\Users\Geeker\IPC\	<input type="button" value="Browse"/>	
Record backup path	C:\Users\Geeker\IPC\	<input type="button" value="Browse"/>	

It shows the SD card status here.

Snap Path: It means where the snapshot will be saved.

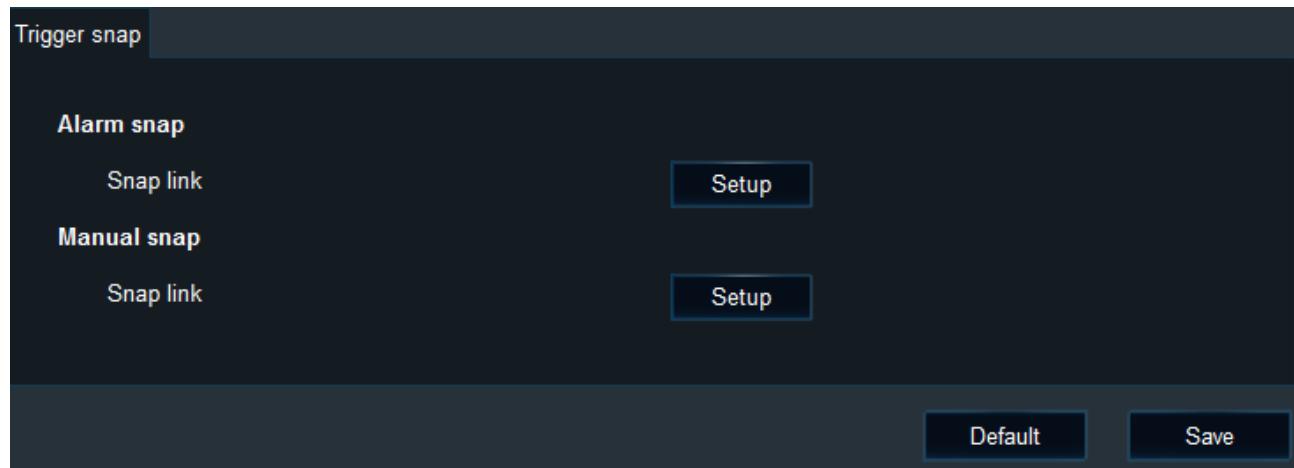
Record backup path: It means where to save the backup record.

Click the Format button the format the current SD card.



3.4.3 COLLECTION

3.4.3.1 Snap Setting



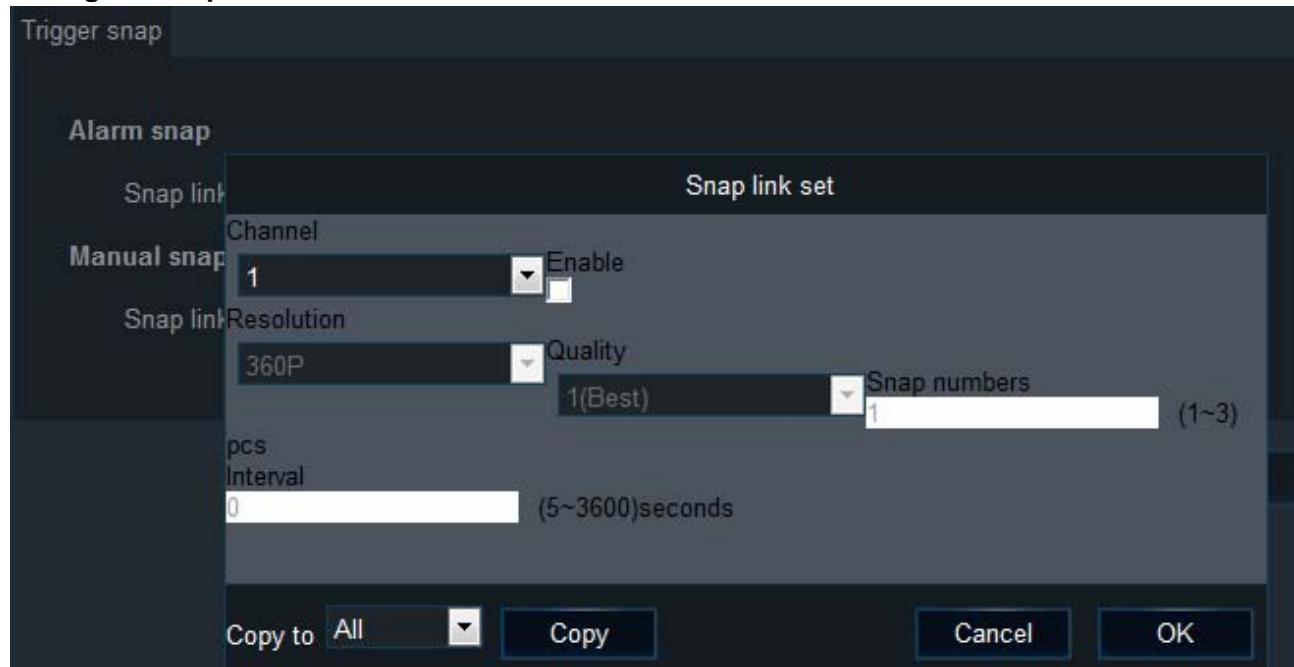
There are 2 kinds of snap:

Alarm snap: Means snapshot when alarm is triggered.

Manual snap: Means snapshot manually.

Note: The snapshot will be saved in second level cache in DS2, as the earlier discussion, Streamax save the snapshot to the device and provide the API to Seon, and Seon will get the snapshot from DS2 with the API and decide where to send the snapshot.

Linkage of snapshot



Channel: Choose the snapshot channel.

Resolution: Choose the snapshot resolution.

Quality: Choose the image quality of the snapshot.

Snap numbers: Set the number for the snapshot when alarm is triggered.

Interval: Set the interval time for each of the snapshot.

3.4.3.2 Alarm

Name	Enable	Alarm type	Trigger	Linkage
Sensor1	<input checked="" type="checkbox"/>	Event	<input type="button" value="Setup"/>	<input type="button" value="Setup"/>
Sensor2	<input checked="" type="checkbox"/>	Alarm	<input type="button" value="Setup"/>	<input type="button" value="Setup"/>

Copy Sensor1 To All

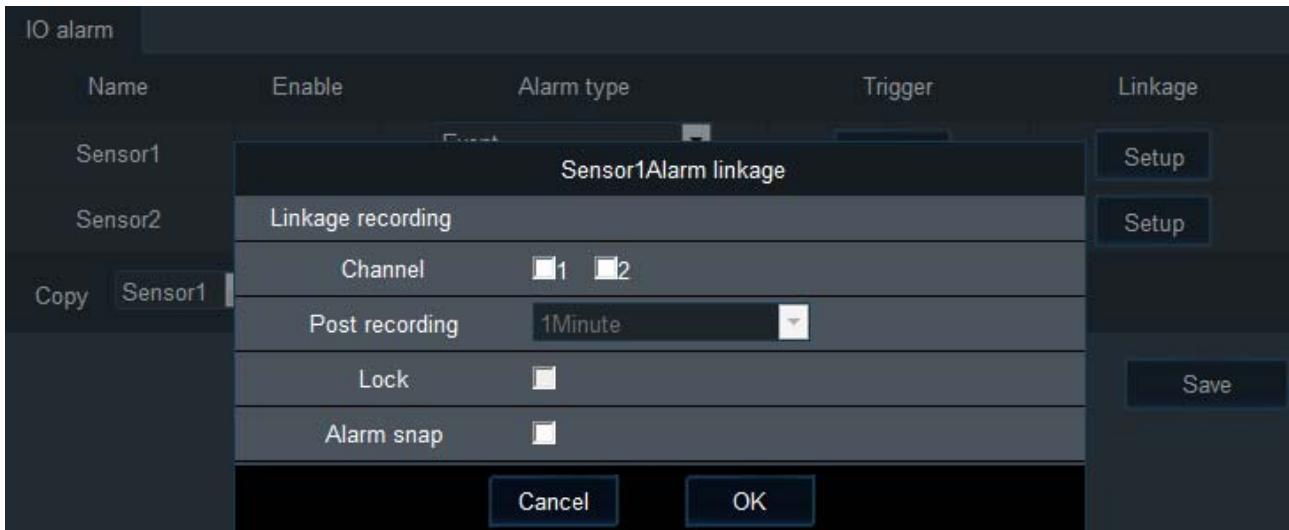
Alarm type: There are 2 options, "Event" and "Alarm", event means DS2 will record the event in DS2 while alarm means DS2 will record event to DS2 and send the alarm to the server at the same time.

Note: Because Seon didn't customize server from Streamax, so there is no real difference between event and server.

Name	Enable	Alarm type	Trigger	Linkage
Sensor1	<input checked="" type="checkbox"/>	Event	<input type="button" value="Sensor1Trigger"/>	<input type="button" value="Setup"/>
Sensor2	<input type="checkbox"/>	Event	<input type="button" value="Sensor2Trigger"/>	<input type="button" value="Setup"/>

Copy Sensor1

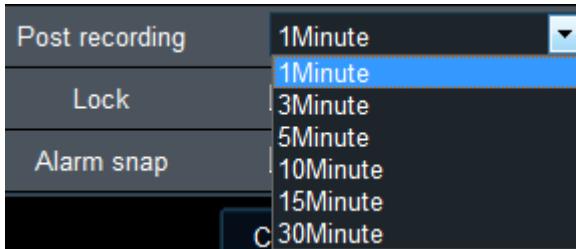
Trigger: The alarm will be triggered with "High" or "Low". High means when external voltage input is higher than 4V, then the alarm will be triggered, Low means when external voltage is lower than 4V, then the alarm will be triggered.



Linkage:

Linkage recording: Means enable the channel to alarm record mode when alarm is triggered.

Post recording: Means how long will the alarm recording will keep after alarm is triggered, it ranges from 1 minute to 30 minutes, as the picture shows below:



Lock: Means lock the alarm record in SD card, so it won't be overwritten.

Alarm snap: Enable it so alarm snapshot will happen when alarm is triggered.

Note: Alarm snap is saved in second level cache in DS2 only for now. Soon will decide where to send the snapshot.

4. FAQ

1) The system can't start?

Usually this problem results from the incorrect power connection.

2) The device is not recording?

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

1. Check whether the SD card is installed, whether it is in good contact, and whether the SD card can be read normally in computer.
2. Check whether the storage 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.

3) Can not connect DS2 with wifi normally?

Please check the wifi status, because there are AP mode and client mode, user can not connect to DS2 directly if wifi working as client mode.

5. FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the

instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

This Product must be installed and operated with a minimum distance of 20cm between the radiator and user body.