



User Manual

VDH-DR H.265 DVR

2019 JAN V1.0

Contact

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1 Setup wizard

After start, wizard page will be pop-up.

1.1 Wizard 1

Enter password and click " Next" (Default password for admin is null)



Admin password	
Change password	<input type="checkbox"/>

Prev Next Exit

1.2 Wizard 2

On the page of P2P, you can click【setting】to modify the device' s UID, and then scan to download APP, after that, scan UID to add the device via APP. When the status shows internet ready, you can view via internet.



1.3 Wizard 3

DVR Name : Showed device name

DVR ID number : Device ID when remote control.

Language: Showed language, 11 language optional

System time : If you need to setup the time, click [Settings](#)

Date format : 9 format to be chosen according to different regions

Time format: 24 hrs or 12 hrs

Time Zone: Choose the corresponding time zone according to the regions

Setup wizard : If setup wizard is needed or not, when the DVR starts.

Setup wizard	
DVR name	HVR
DVR ID number	0
Language	English
Set time & date	2015-01-01 Thu 00:10:51
	Settings
Date format	YYYY-MM-DD W hh:mm:ss
Time format	24-Hour
Camera mode	Automatic Identification
	Settings
Setup wizard	<input checked="" type="checkbox"/>

Prev Next Exit

1.4 Wizard 4

Network setting, you can check the network IP and network port.

Notice: Some operations may need HTTP port and mobile port, you can check it here.

Setup wizard

Interface	10M/100MAuto Adapter			
Enable DHCP	<input type="checkbox"/>			
IP address	192	168	1	111
Subnet mask	255	255	255	0
Gateway	192	168	1	1
MAC address	5a:57:38:67:35:ed			
Primary DNS	223	5	5	5
Secondary DNS	223	6	6	6
HTTP port	80			
Mobile port	6667			

[Prev](#) [Save](#) [Exit](#)








2 Toolbar description

After the guide is finished, Right-click anywhere, the following menu will be showing.




2.1 main menu



- 2.2  Single screen : After click it, it will turn to single screen.
- 2.3  Four split screen : After click it, it will turn to four split screen; click it again, it will turn to next four.
- 2.4  Six split screen : After click it, it will turn to 6 split screen; click it again, it will turn to next 6 channel.
- 2.5  Eight split screen : After click it, it will turn to 8 split screen.
- 2.6  Nine split screen : After click it, it will turn to 9 split screen.
- 2.7  16 split screen : After click it, it will turn to 16 split screen.
- 2.8  Cruise : After click this icon, it will cruise sequentially as it sets on the view setting.



- 2.9  IP CAMERA set : click the icon to enter [IPC configure], then search and add the IPC.

IPC Configure

CH	Device address	Camera	Physical address	PROT.	Link Status	Operations
11	Local	A11	--:--:--:--:--:--	AHD	Disconnect	
12	Local	A12	--:--:~:~:~:~:~:~	AHD	Disconnect	
13	Local	A13	--:~:~:~:~:~:~:~	AHD	Disconnect	
14	Local	A14	--:~:~:~:~:~:~:~	AHD	Disconnect	
15	Local	A15	--:~:~:~:~:~:~:~	AHD	Disconnect	

Total Resource: 80M Free Resource: 80M Page Up Page Down Search Exit

Front Device List





■ All	Device address	Camera	Physical address	PROT.	Type
■ 1	192.168.1.103	8899	--:~:~:~:~:~:~:~	ONVIF	IPC

Refresh Change IP Manual Add Filter Added Devices

Total Resource: 80M Free Resource: 80M Add All Add Exit


After configuration, the IPC added will be available for live view.


IPC Configure

<input type="checkbox"/> CH	Device address	Camera	Physical address	PROT.	Link Status	Operations
11	Local	A11	--:--:--:--:--	AHD	Disconnect	
12	Local	A12	--:--:--:~:~:~	AHD	Disconnect	
13	Local	A13	--:~:~:~:~:~:~	AHD	Disconnect	
14	Local	A14	--:~:~:~:~:~:~	AHD	Disconnect	
15	Local	A15	--:~:~:~:~:~:~	AHD	Disconnect	
<input type="checkbox"/> 16	192.168.1.103	8899		ONVIF	OK	   

Upgrade Delete All

Total Resource: 80M Free Resource: 80M Page Up Page Down Search Exit

- 2.10  Digital Zoom : After click, you can make it 4 times zoom, you can drag the coordinate on the bottom right corner to show the zoom area show enlarged area.

2.11  P.T.Z : Description: You can operate via "P.T.Z" .



(1) Call of Preset point

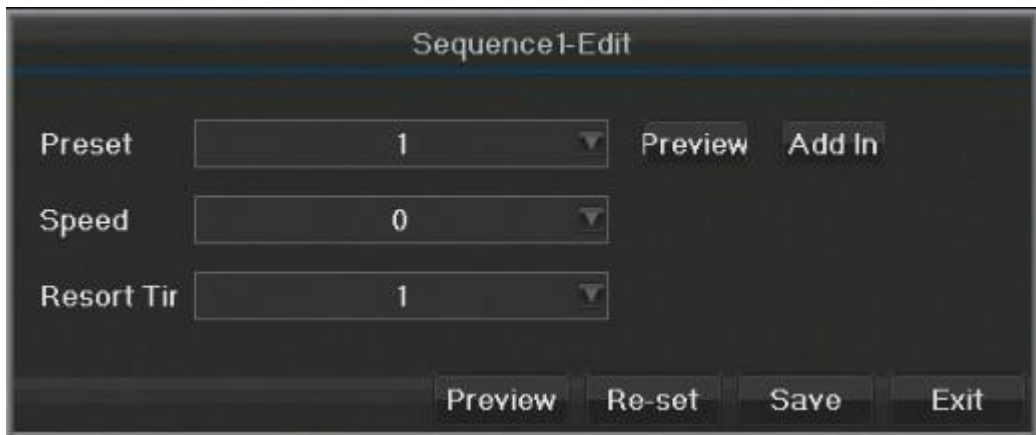
Click the icon on the toolbar, "PTZ Control" will be showing,

Choose the Number of preset point,

Click [Call], it will be back to the preset point.

Click [Set] to setup present point

(2) Call of Cruise



Click the icon on the toolbar, "PTZ Control" will be showing, Choose the Number of cruise,

Click [Call], it will be back to the cruise

Click [Stop] · cruise will stop

Click [set] to setup cruise.

(3) Call of Track




Click the icon on the toolbar, "PTZ Control" will be showing, Choose the Number of track,

Click [Call], it will be back to the track

Click [Stop] · Track will stop.

Click [set] to record or stop track.


- 2.12  UTC : You can adjust the camera' s parameter and also control motorized lens. After click the icon, the following picture will be showed, click the middle "OSD" button :





You can adjust the camera' s parameter via DVR' S UTC function

- 2.13  System Status :




Click the  icon on the toolbar, system status will pop-up, you can check information regarding the signal loss, motion detection, alarm input, system status If you want to clear alarm, you need to click 【clear

alarm】

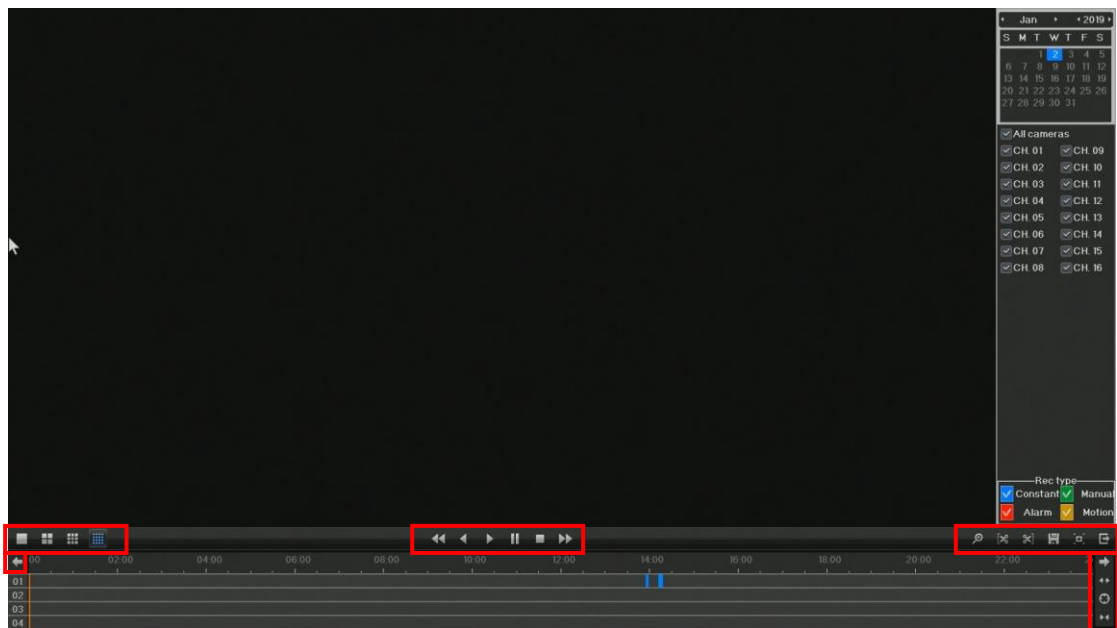
Notice : You can check the signal loss, motion detection, alarm input, alarm output and system status at this page. Enter toolbar-main menu-alarm setting-alarm output to setup the delay of alarm make the alarm open until you click “clear alarm” to clear it. The icon on the toolbar :  means no alarm ·  mean alarm on .

Click the icon on the toolbar, system status will pop-up, you can check information regarding the signal loss, motion detection, alarm input, system status If you want to clear alarm, you need to click 【clear alarm】 Notice :You can check the signal loss, motion detection, alarm input, alarm output and system status at this page. Enter toolbar-main menu-alarm setting-alarm output to setup the delay of alarm make the alarm open until you click “clear alarm” to clear it. The icon on the toolbar : means no alarm · mean alarm on.






2.14  Snapshot


















After you choose the channel, and click this icon, the snapshot will be seen on the Data Retrieval.

2.15  Playback



Playback Function Description :

	Choose view 1 split mode during the playback.
	Choose view 4 split mode during the playback.
	Choose view 9 split mode during the playback.
	Choose view 16 split mode during the playback.
	Slow playback speed: 1/4 、 1/8

	back forward
	play
	pause
	stop
	Fast forward speed :1X 、 2X 、 4X 、 8X 、 16X
	digital amplification
	start cut
	stop cut
	Backup
	click the icon to full screen mode, click the right button of mouse to back to default.
	exit the playback mode
	back forward on time bar
	play forward on time bar
	zoom in time bar
	zoom out time bar
	Time bar back to the default
	searching the record data

(1) How to playback :

1. On calendar, Date with Blue color means record footage is existed.
2. Choose the playback channel, single and multi-channel playback supported.
3. Choose the playback date, the whole day' s video will be shown on the time axis.
4. Click "play" to play the chosen channel.



Different colors show different types of record.

Blue—Constant video, Green—Manual video, Red-Alarm,


Yellow—Motion video.

2.16  BACKUP

User name and password will be needed.

After you log-in, backup device will be checked automatically,

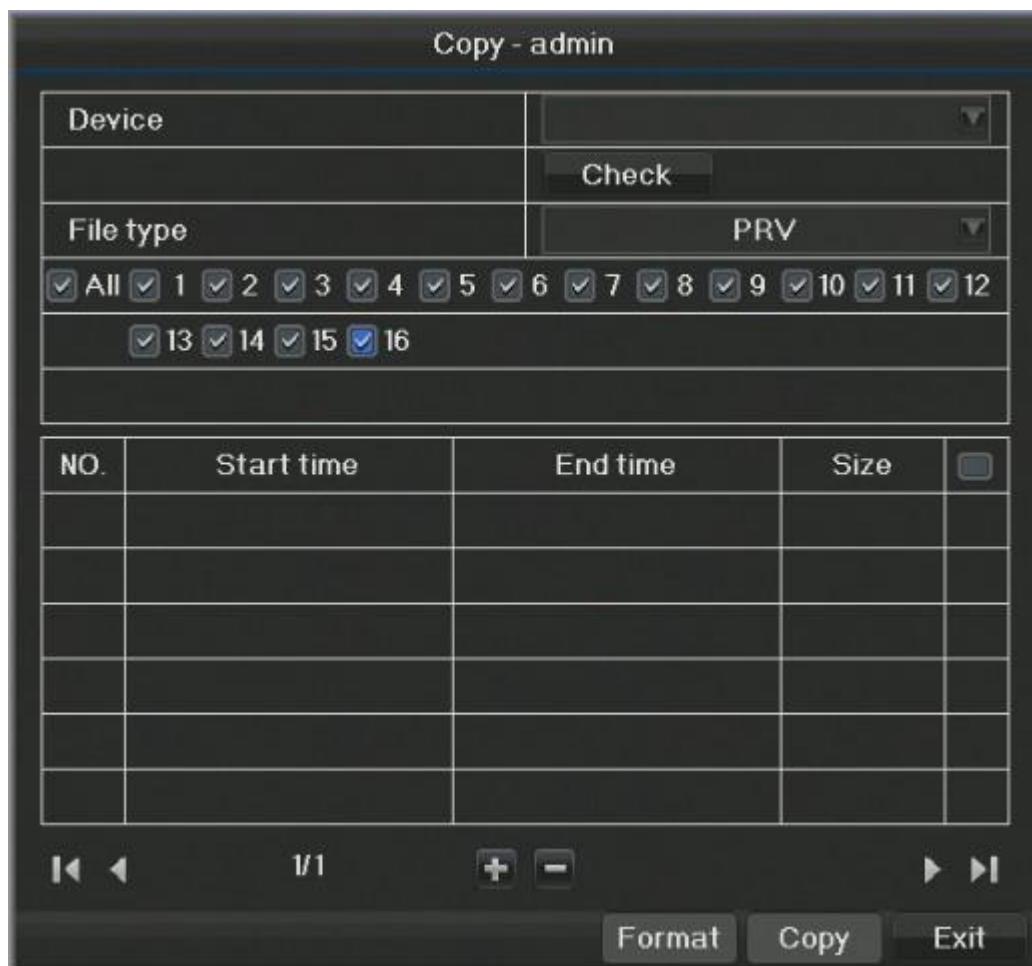
you can also click  manually.


Click  to choose the time of backup. File type supports PRV.

Choose all channels or part of channels to backup according to your request

 Format backup device,  start to backup,

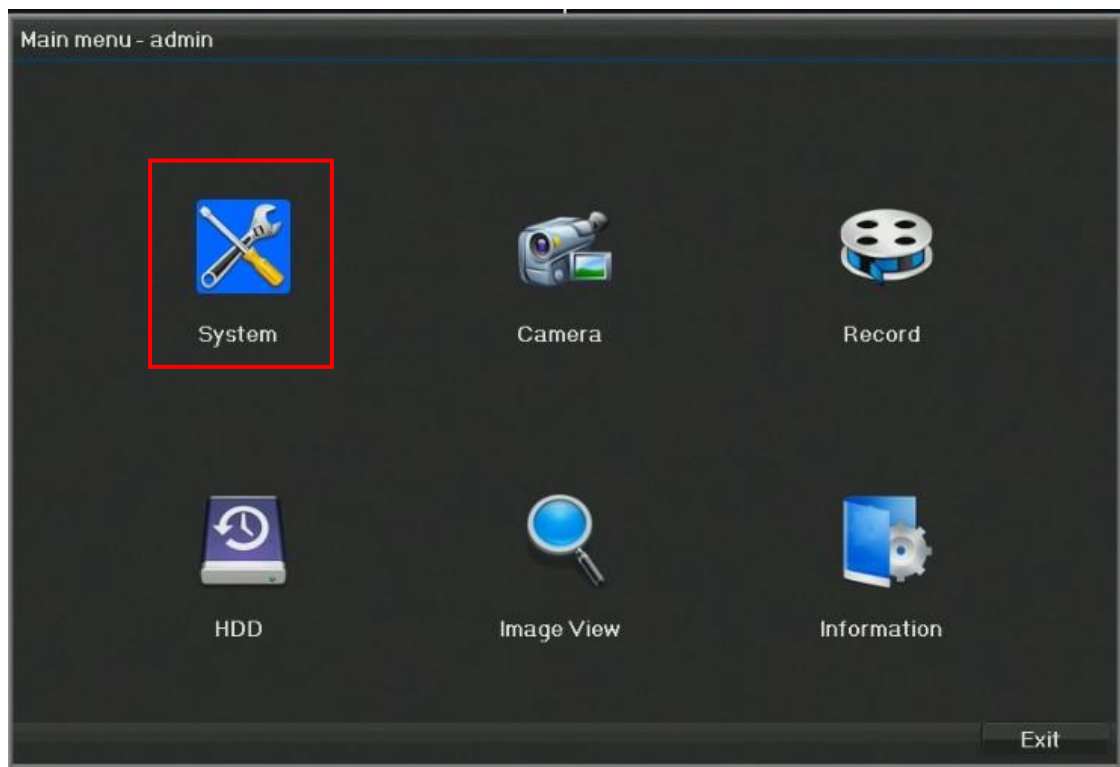
 And Exit



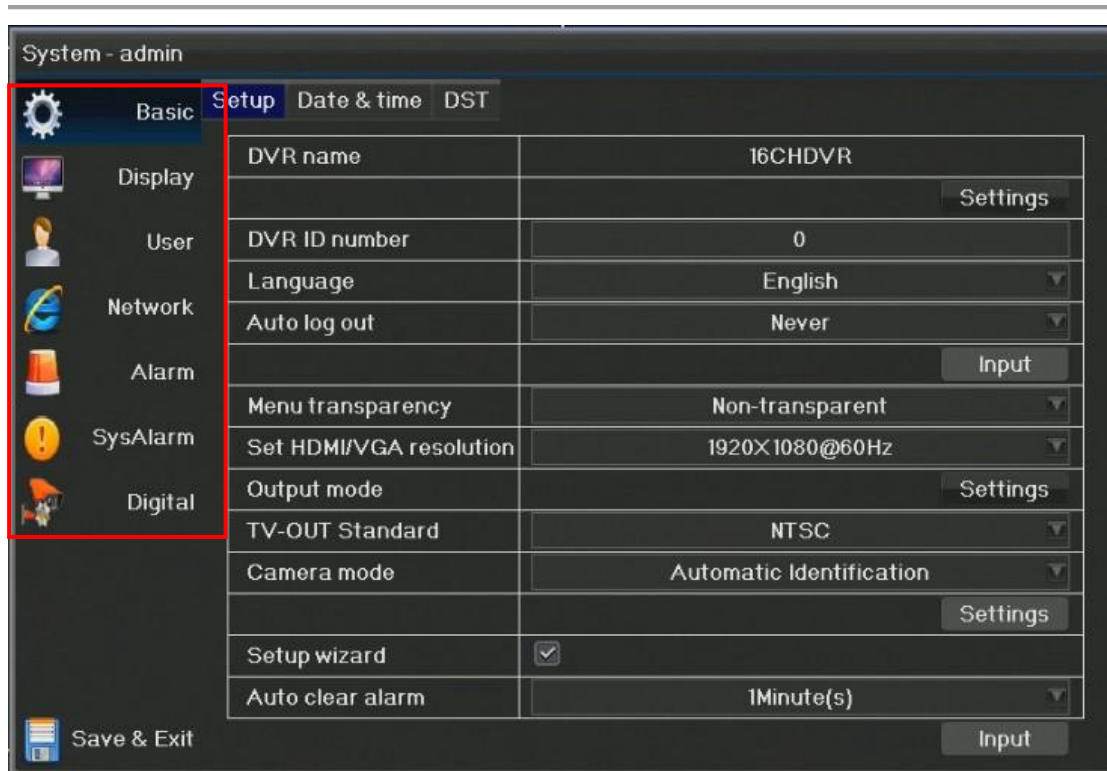
- 2.17  Shutdown system : You can click to log out, shutdown or reboot



3 Main menu-Admin



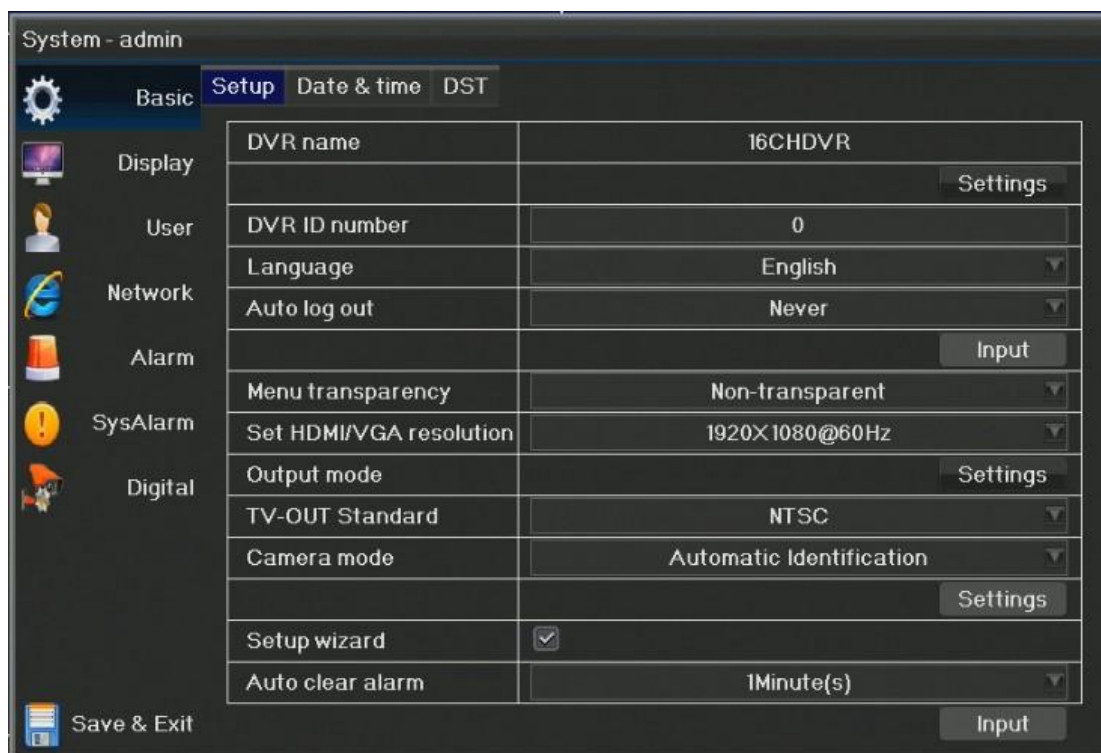
(Click this icon to enter sub-menu)



Basic	Device' s parameter, Date and Time, Daylight saving time
Display	Basic and view setting
User	User management
Network	Basic setting, PPOE,DDNS,EMAIL,IP blacklist, uPnP,P2P
Alarm	Alarm input/output
SysAlarm	System alarm setting
Digital	Channel Mode

3.1 Basic

3.1.1 Basic



- DVR Name : Click to set the DVR name
- Device ID number : Change the camera ID
- Language : System language switching
- Auto Logout : Set the auto logout time
- Menu Transparency : Adjust the mean transparency
- Resolution : Adjust the resolution of HDMI and VGA(Maximum 1920*1080)
- Output mode : Various output modes are optional, customs support.

- TV-OUT: NTSC or PAL Mode.
- Camera Mode:

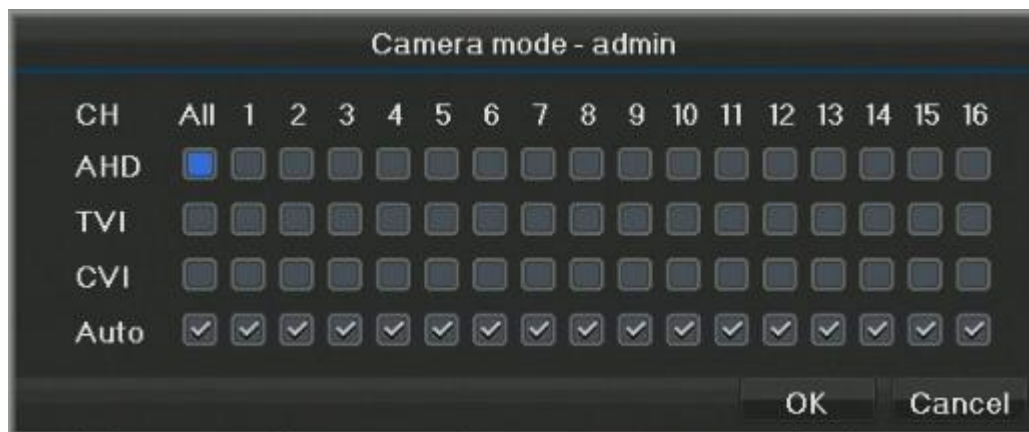
Automatic identification : Identify the input signal AHD,TVI,CVI,CVBS automatically

All AHD: Identify all the signal as AHD

All TVI : Identify all the signal as TVI

All CVI : Identify all the signal as CVI

Custom setting : Set one channel or all the channel as some kind of signal

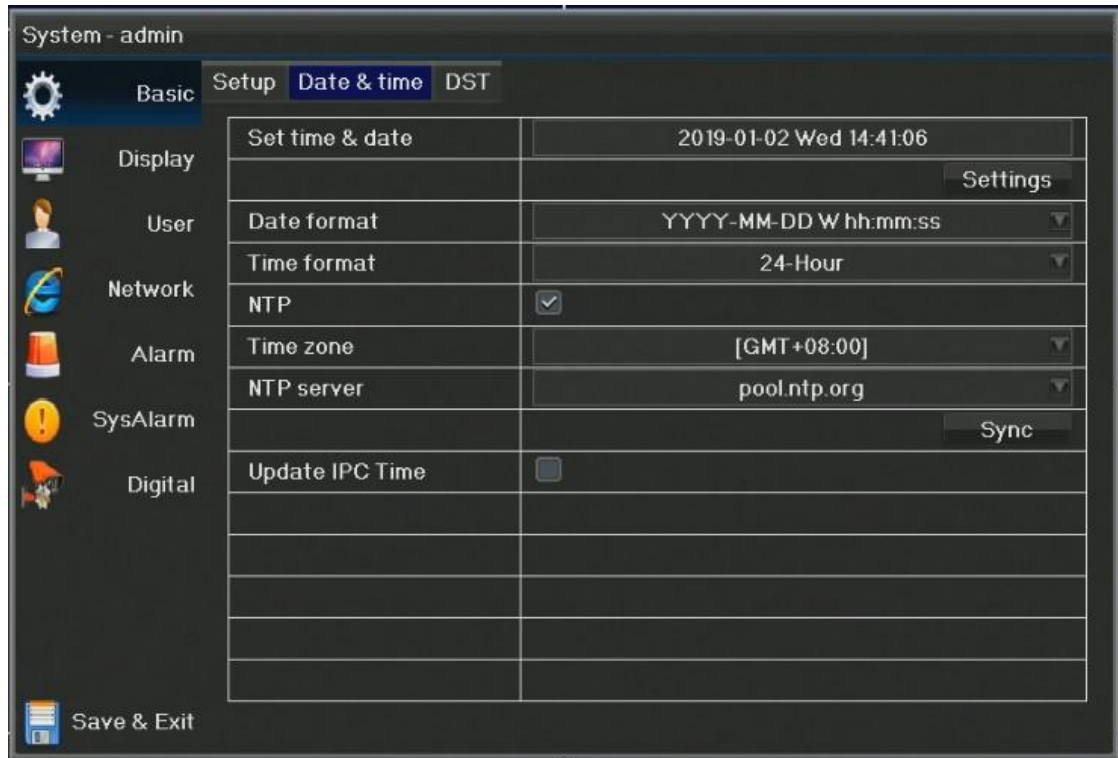


- Display wizard: Open or close the wizard.

3.1.2 Date & Time

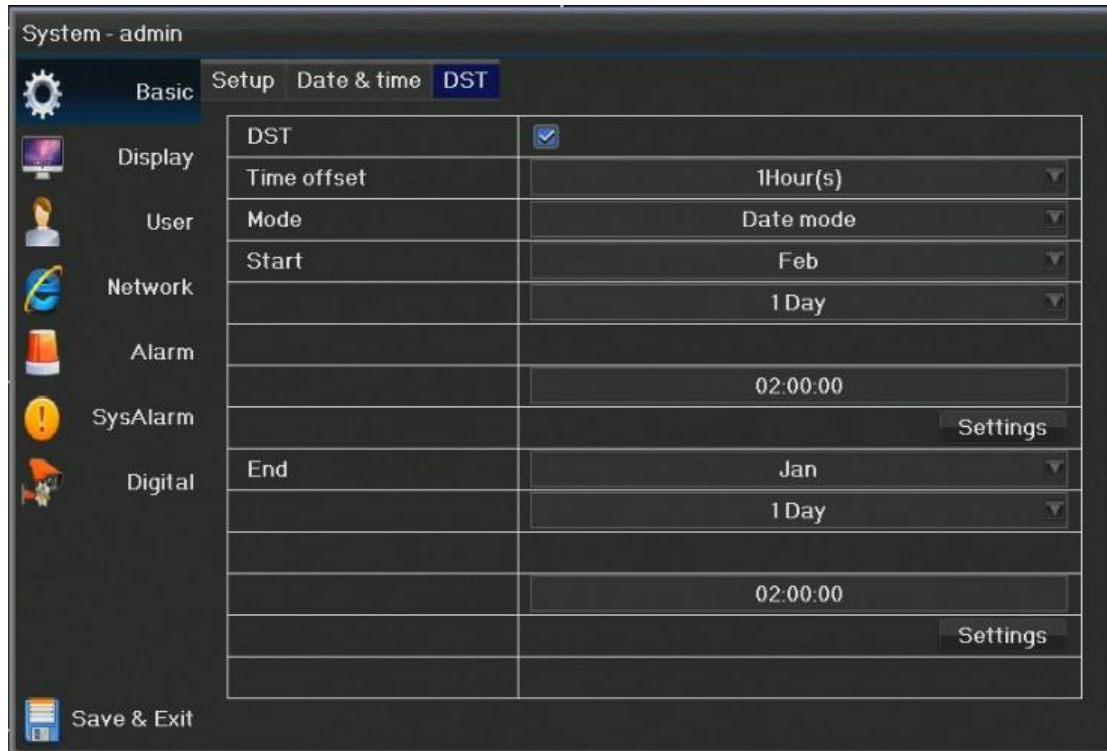
Click this icon to set Date & Time manually or Click "Network time synchronization"

Note: If network time synchronization is failure, pls change the network time of server and restart.



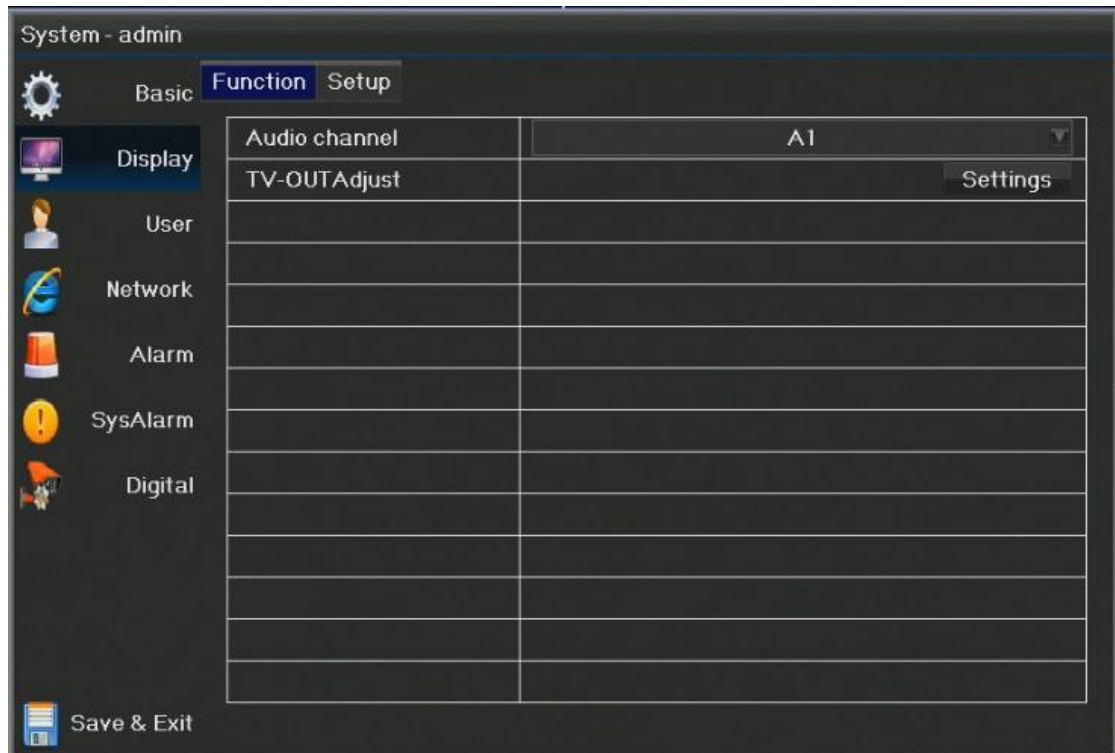
3.1.3 DST(Daylight Saving Time)

After DST is chosen, you can set.




3.2 Display

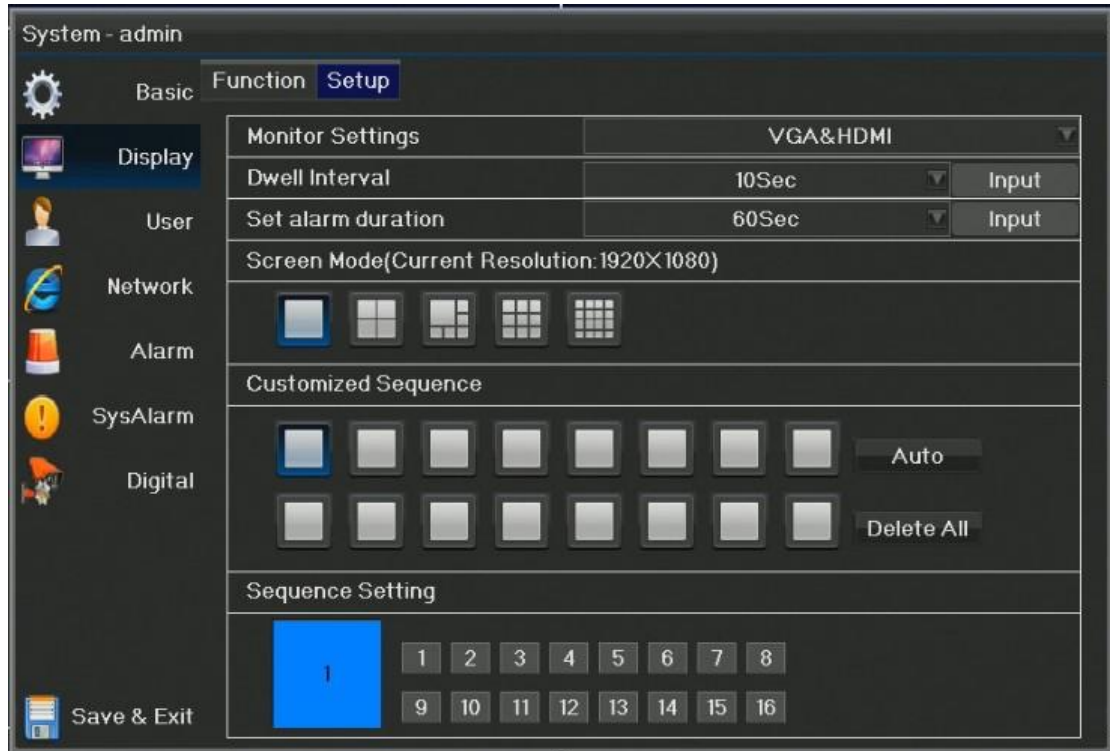
3.2.1 Display



- **Preview Setting**


Audio preview : Choose , Audio preview will be back to this channel, so you can preview the chosen audio.

3.2.2 Display setup



Set up dwell interval. Users can customize each screen' s display.

- Customized sequence : Left-click the blank box, and choose the

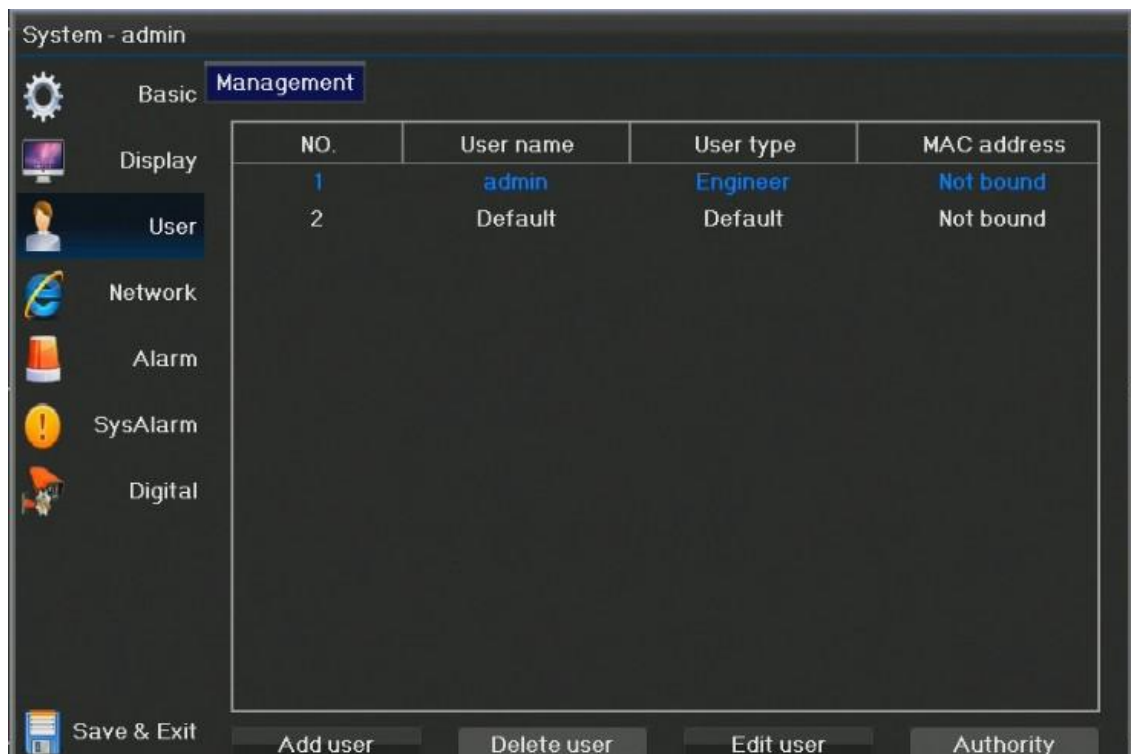
screen mode  Then the screen mode will be added to the customized sequence. Click "Auto" , the screen mode will be used automatically. Click "Delete All" , All the customized sequence will be deleted.

- Sequence Setting : Choose the screen in customized sequence, and click 1-8 channel on the right side to sequence randomly.

3.3 User Management

Administrator can add user, delete user, edit user and set the authority.

Notice : Common user can only edit their own password



Click 【Add user】 to add user, Enter username and password; If Mac address is bounded, you need to enter the MAC address.

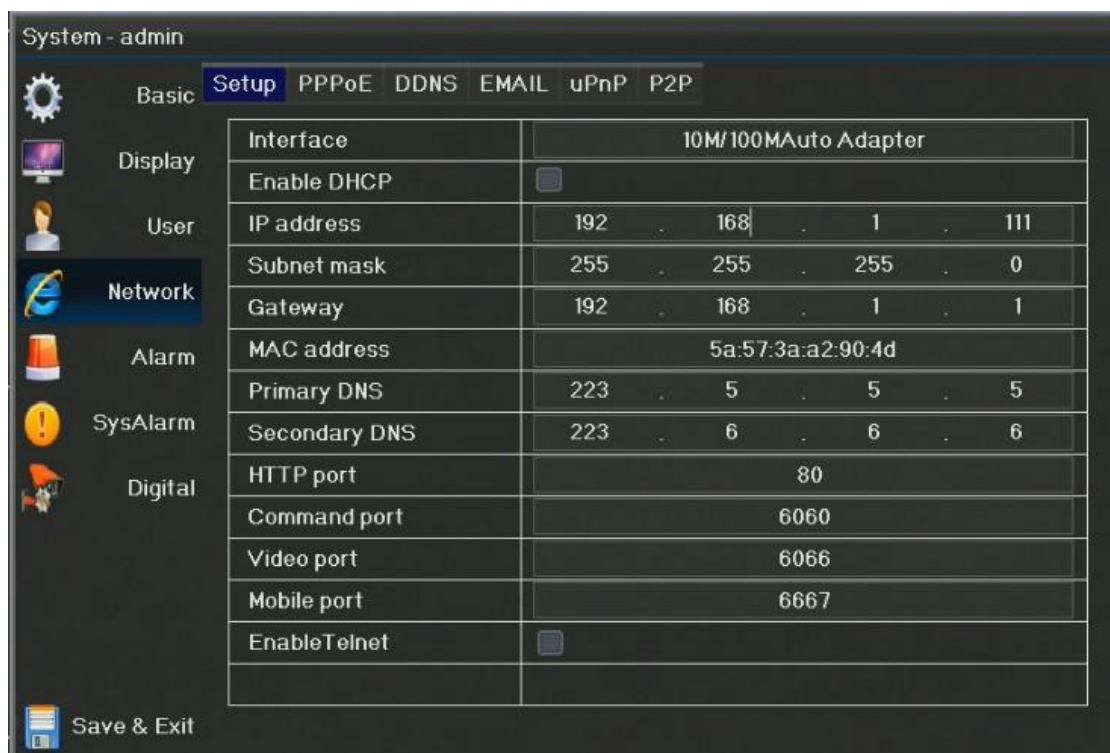
Notice: After the MAC address is bounded, you can only log-in the user remotely on the PC with this MAC address

3.4 Network

3.4.1 Basic setup

Setup device' s parameters, such as: IP address, Gateway, Port, DNS and so on. After setup, Click 【Save & Exit】 it will be valid immediately.

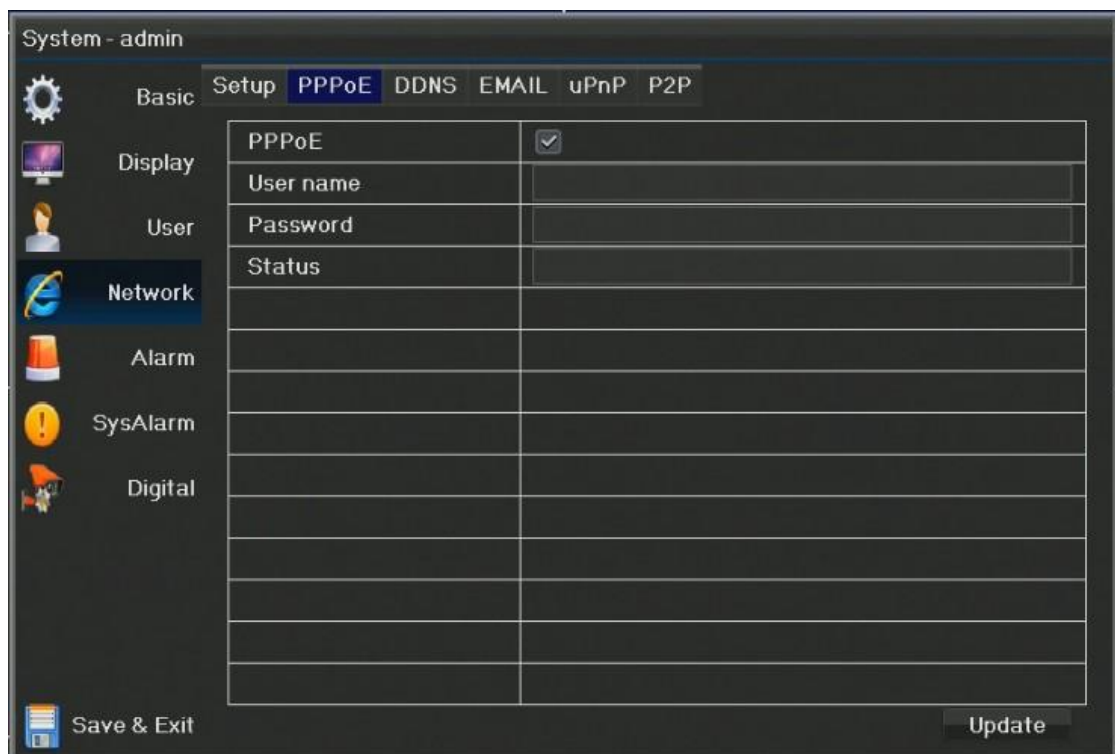
Notice: If there' s DHCP server, pls choose "obtain IP automatically ", then it will be valid immediately



3.4.2 PPPOE

When you connect via ADSL, User can dial via PPPoE, Choose to use PPPoE, enter username and password, Click【 Update 】 and then click【 Save & Exit 】 , and finish the setting. Check the following picture.

Notice: Pls get the user name and password of PPPoE from service provider, and finish the setup. After restart, the device will dial the network automatically. After dialing, the network information will be shown on network status.



3.4.3 DDNS

First: Basic: Setup device' s parameters, such as: IP address, Gateway, Port, DNS and so on. After setup, Click【 Save & Exit】it will be valid immediately.

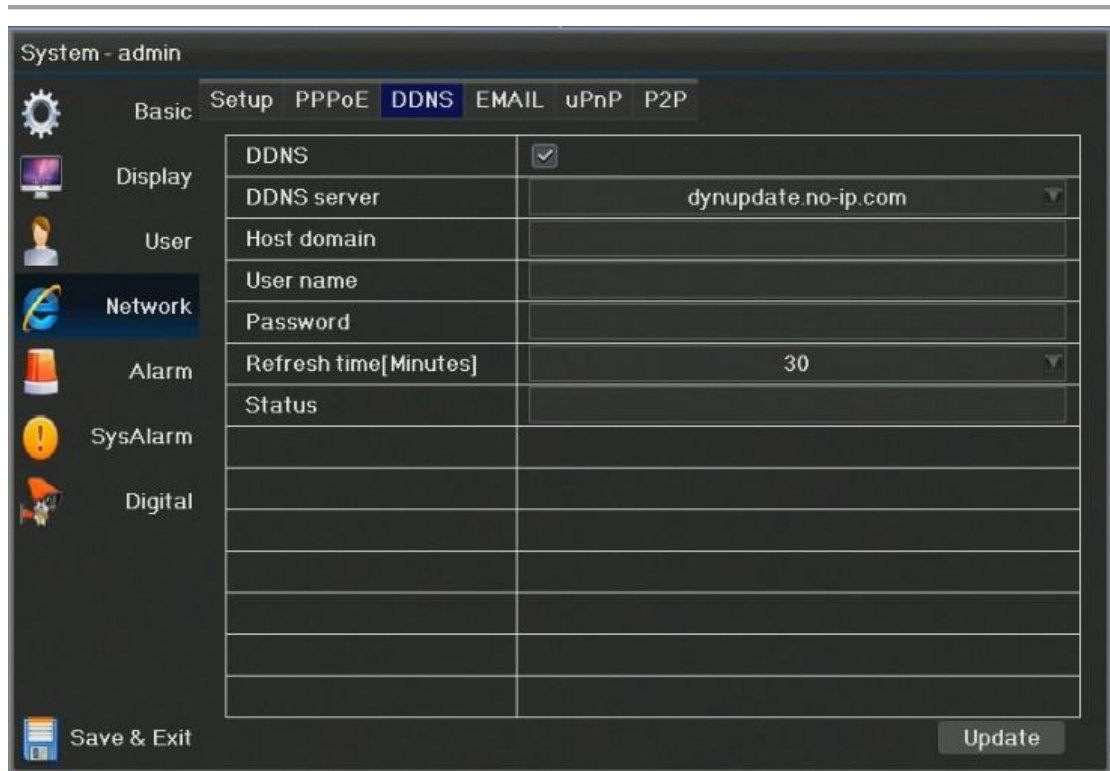
Second: Setup DDNS, check DDNS.

If DDNS is chosen, the server IP is: members.dyndns.org

Host domain: Users can apply host domain by themselves(go to websit of dyndns to apply) , Username and password is the one you registered on the website of dyndns, After finishing, Click【 Save & Exit】 , as following picture.

Third: Click【 Update】 , it' s registering, the status will be shown as the pictures, after finish register, the status will be “register successfully” If failure, the status will be “register failure” .

Notice: When register is failure, check the DDNS to see if the setup is correct or not, and then check the network to see if Ethernet and DNS is chosen or not.



3.4.4 EMAIL

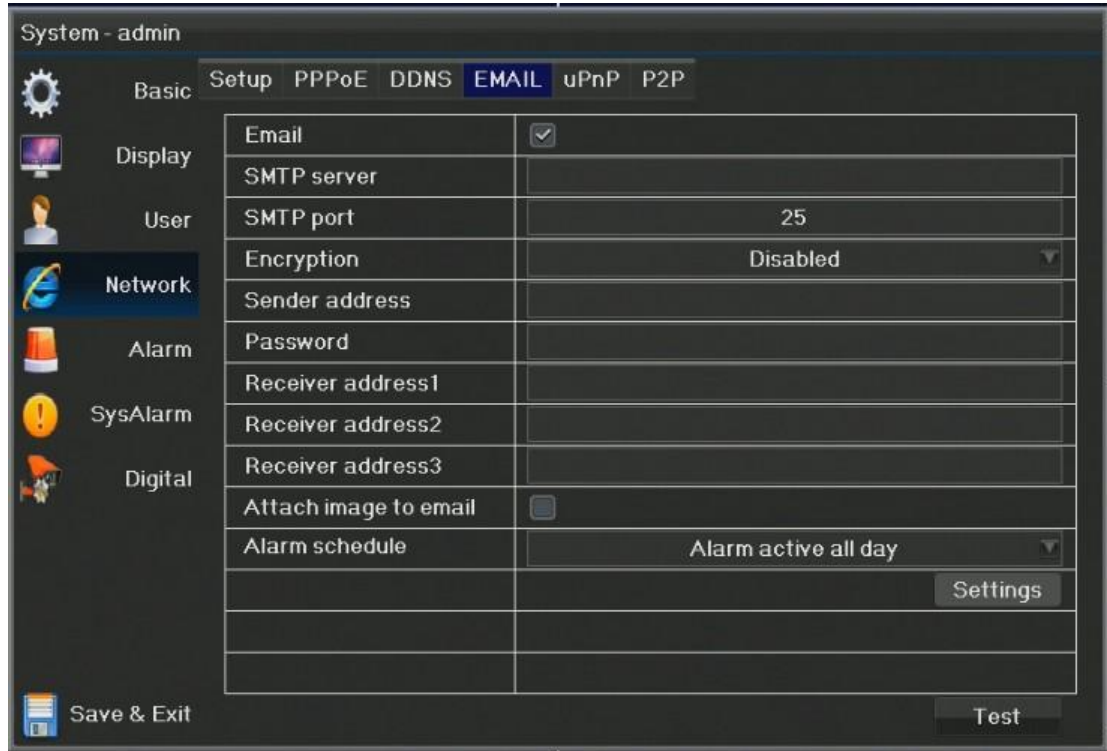
When email is checked, alarm will be sent via email, you can set the information, such as: SMTP server, SMTP sender, SMTP receiver' s email and so on. If snapshot is reported via email, Authentication needs to be chosen.

Notice: You can set SMTP port (Pls confirm SMTP server port), Pls check "SSL check" according to your email, (Some SMTP server may need it)

Test: Click 【Test】 to check the email.

If it email test is failure, pls check email' s setup and also the Ethernet' s

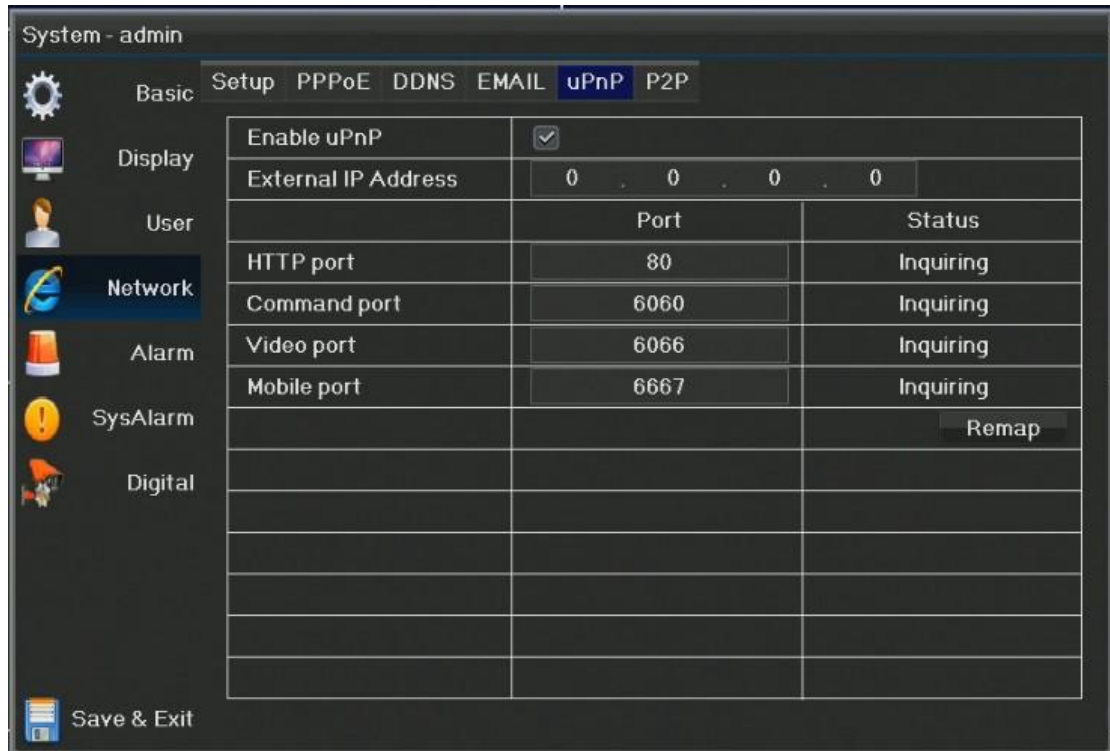
connection and DNS server' s setup.



3.4.5 UPnP

After setup, UPnP can map to Ethernet directly.

P.S. This function will be effective if Router support UPNP function.



3.4.6 P2P

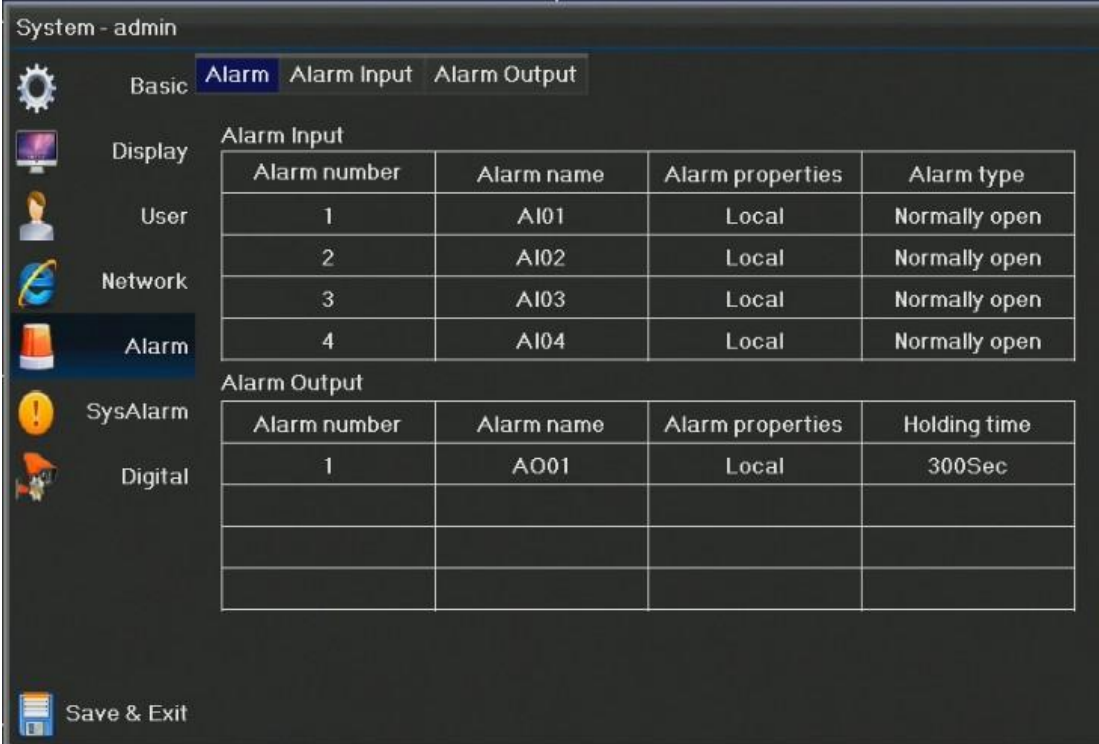
The default P2P is chosen, The UID and UID 2D barcode is correspondently matched. Setup network status. You can get UID manually or scan to get UID when remote login. Or you can also scan to download app when you use mobile to control remotely.



3.5 Alarm Setting

3.5.1 Alarm Status

Alarm Input and Alarm Output



The screenshot displays the 'System - admin' interface with a sidebar menu on the left containing icons for Basic, Display, User, Network, Alarm, SysAlarm, and Digital. The 'Alarm' menu item is selected, and the 'Alarm Input' sub-tab is active. The main content area shows two tables: 'Alarm Input' and 'Alarm Output'. The 'Alarm Input' table has four rows, each with an alarm number (1-4), name (AI01-AI04), local properties, and 'Normally open' type. The 'Alarm Output' table has one row with alarm number 1, name AO01, local properties, and a holding time of 300Sec. A 'Save & Exit' button is located at the bottom left of the interface.

System - admin

Basic Alarm Alarm Input Alarm Output

Display Alarm Input

Alarm number	Alarm name	Alarm properties	Alarm type
1	AI01	Local	Normally open
2	AI02	Local	Normally open
3	AI03	Local	Normally open
4	AI04	Local	Normally open

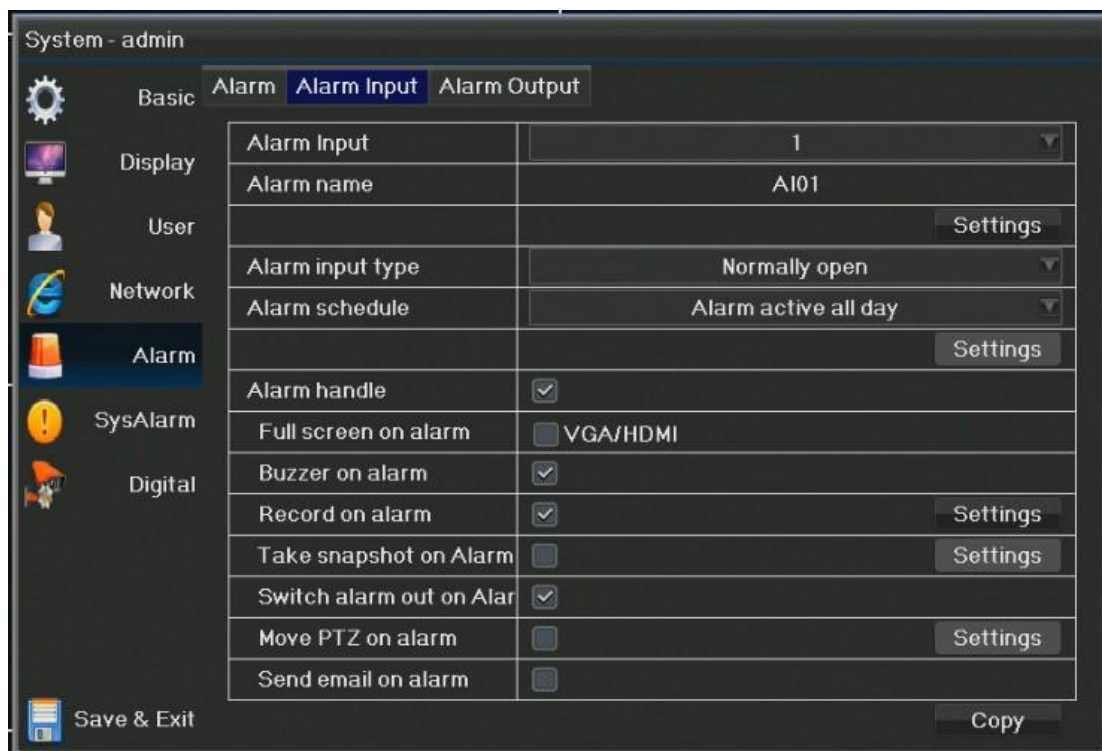
Alarm Output

Alarm number	Alarm name	Alarm properties	Holding time
1	AO01	Local	300Sec

Save & Exit

3.5.2 Alarm Input

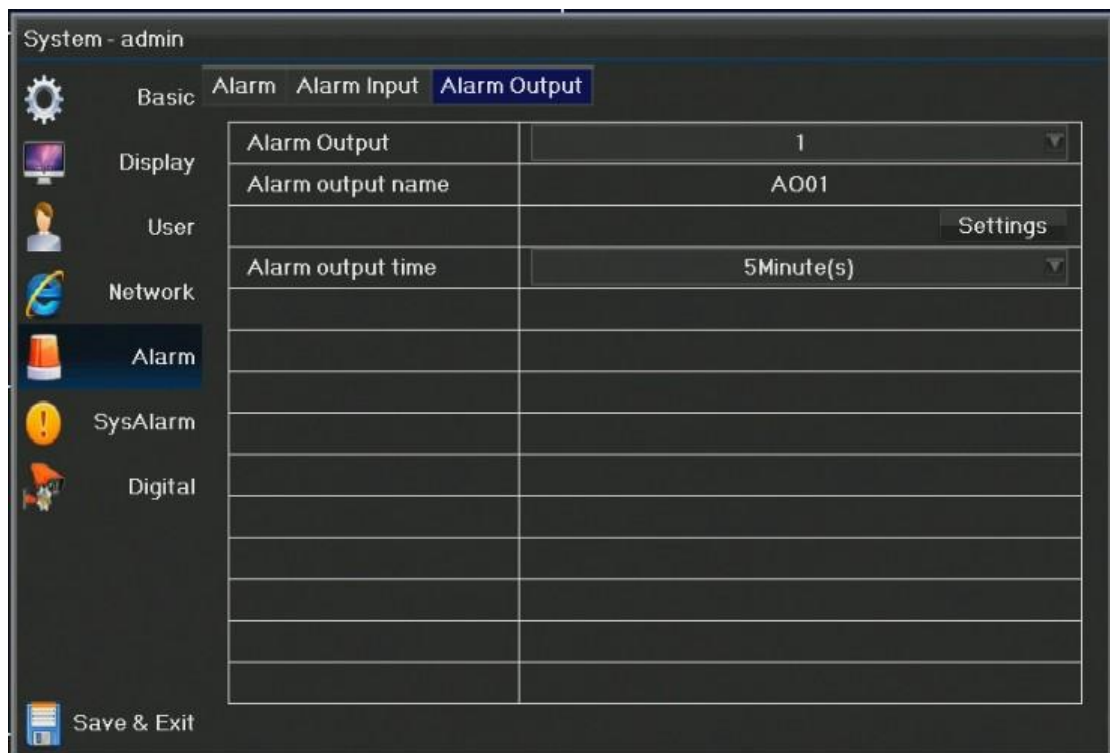
- **Alarm Input**—Choose the alarm channel
- Alarm Name- Click **Settings** to modify the alarm name
- Alarm input type:--Usually “normally open” is chosen
- Alarm schedule—You can choose alarm active all day or define it by yourself.
- Alarm handle—Choose to check the corresponding mode



3.5.3 Alarm Output

Alarm Output : Only one alarm output

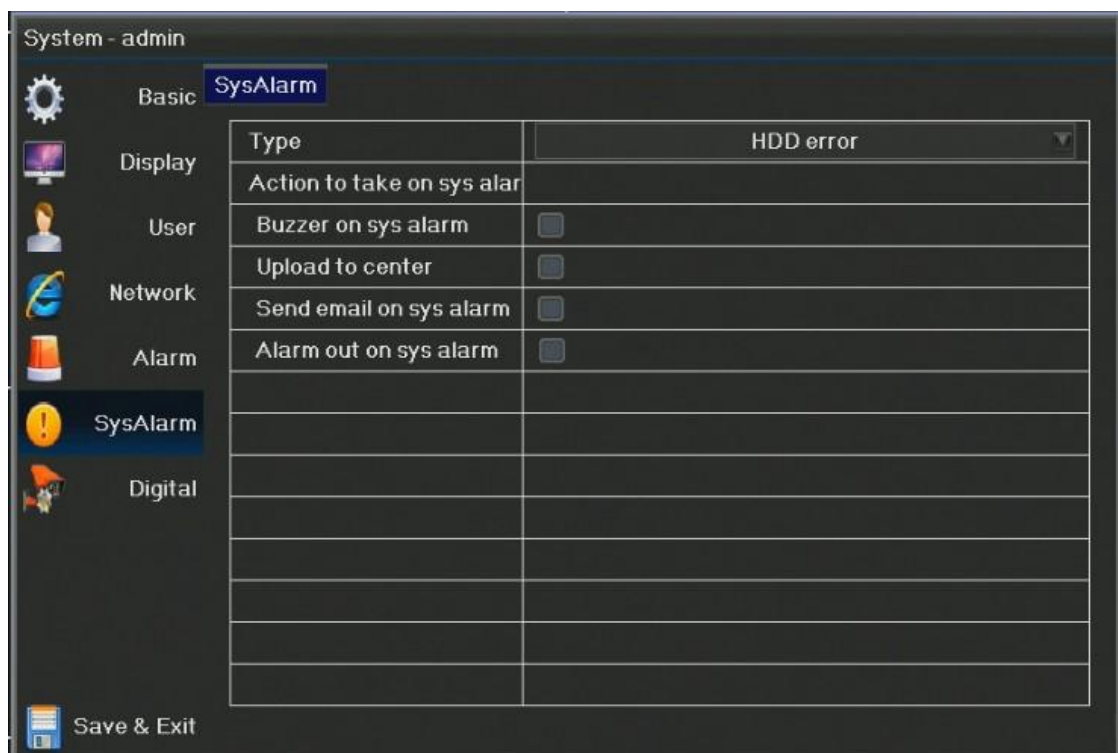
- Alarm Output Name—You can modify the alarm output name by your requirement
- Alarm output time—You can choose the alarm output delay time at your requirement (5, 10 minutes or continuous)



3.6 Sys alarm

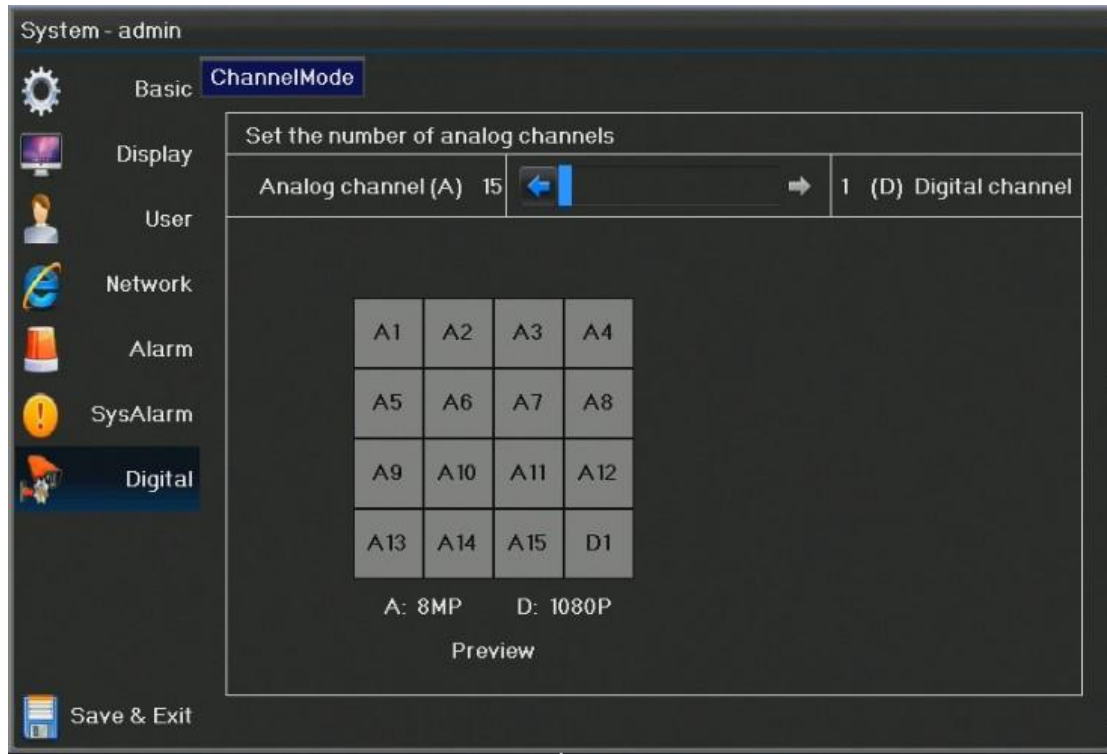
System alarm is the alarm for some exception. The exception includes Disk full, HDD error (Error writing, not Initialization), Network connect lost(doesn't connect network) , IP Conflict, Illegal user access,(error password) etc.

Enter <System settings>—<Mainmenu>—<System alarm> to set up alarm parameter of each channel

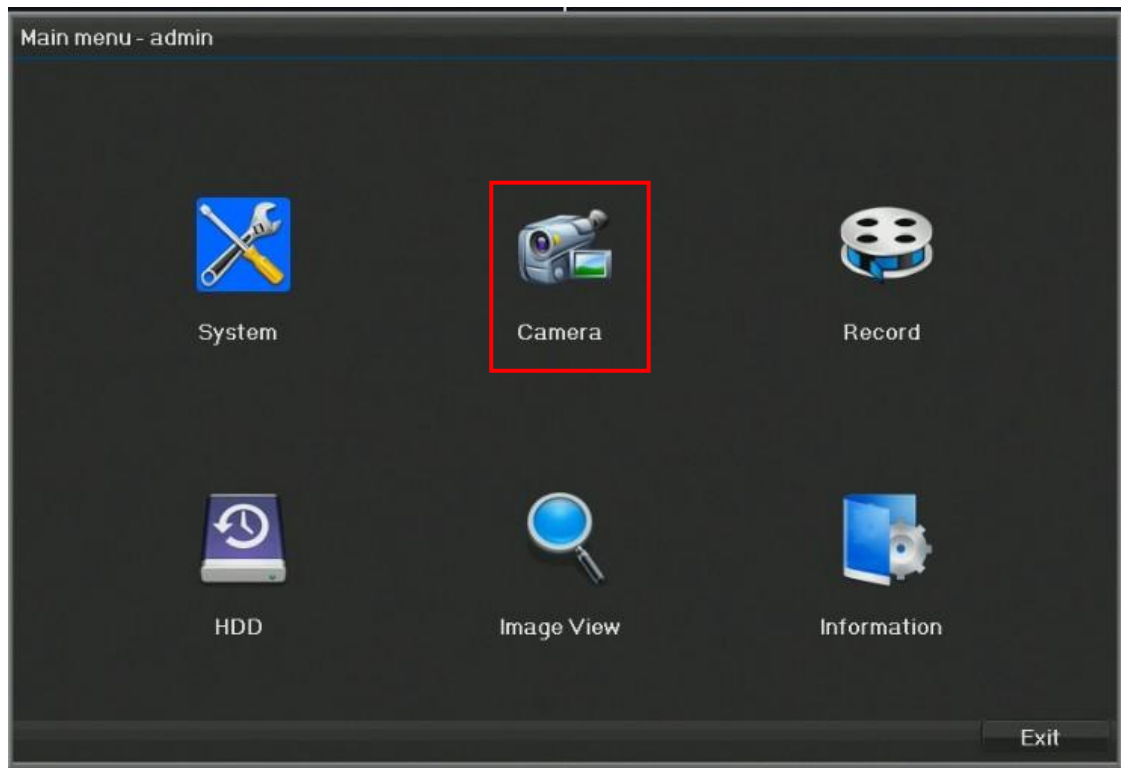


3.7 Channel Mode

Digital : Channel Mode: Set the number of analog channels.



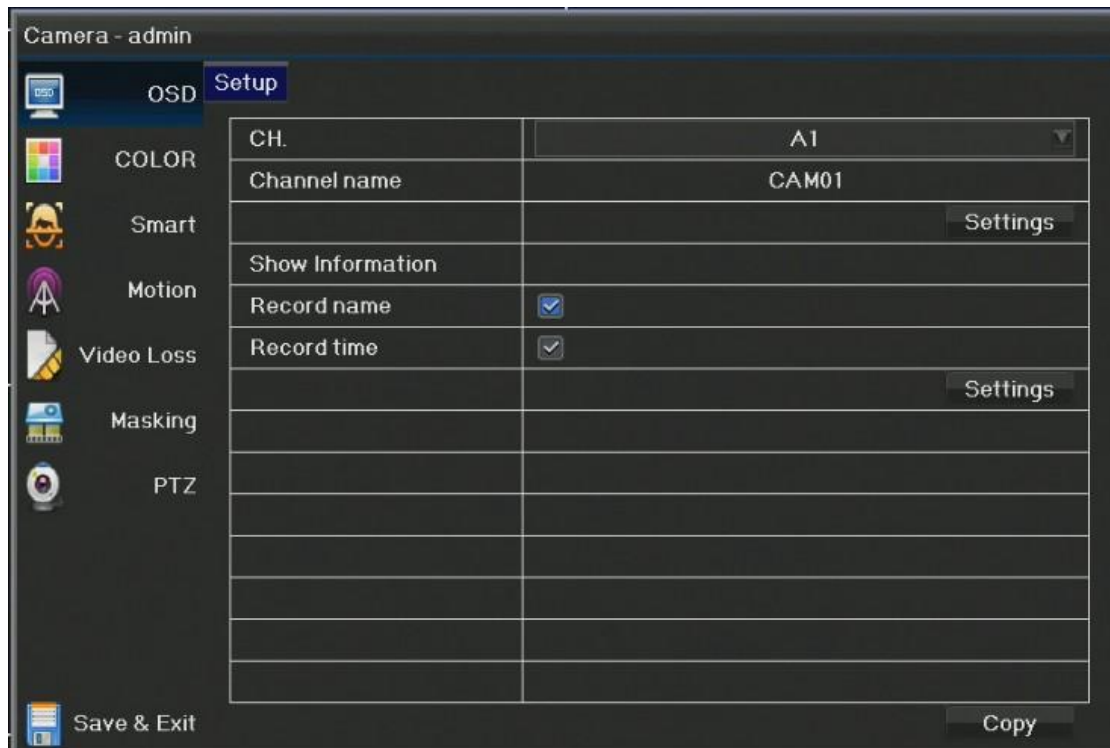
4 Main menu -Camera



4.1 OSD

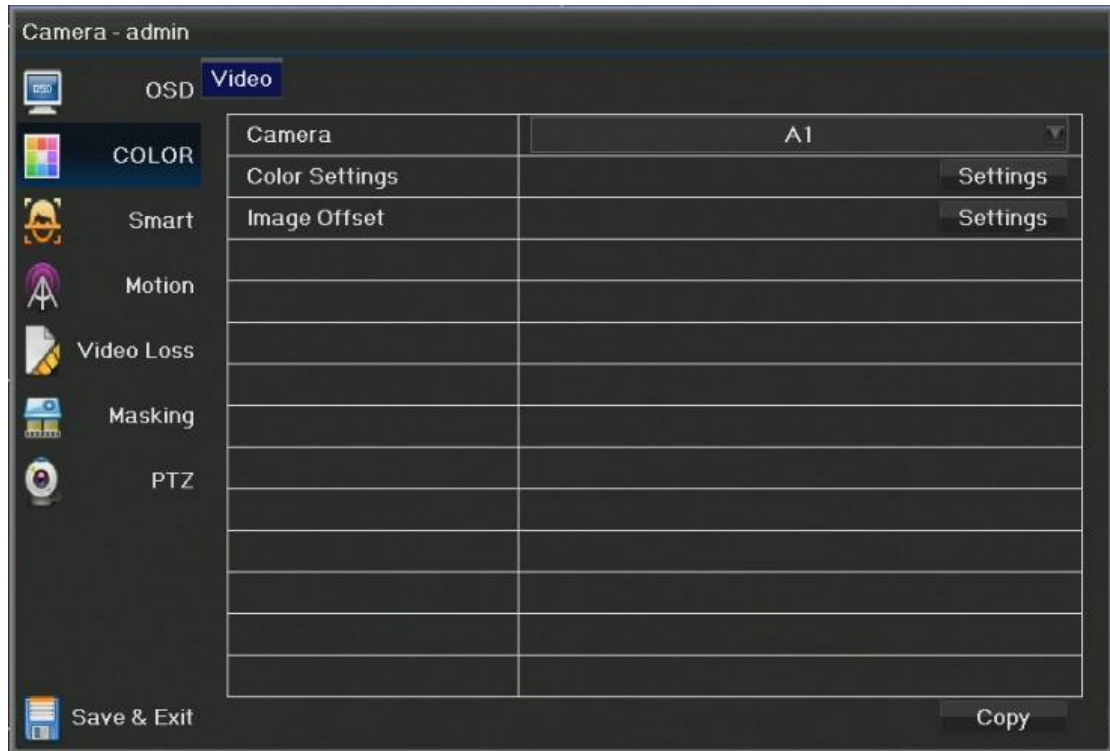
You can set up each channel' s name, The position of showing name and time can be adjusted by your own request. Click **Settings** , After

finishing, pls click **Save & Exit**



4.2 Color setting

Color setting : Adjust the camera' s brightness, contrast, etc.









Choose 【color settings】

You can adjust the color parameter (including brightness, contrast, chrome, saturation, H-Sharpness, V-sharpness) of time section according to the site conditions. After finish, click 【OK】

click **Default** to recover.

Camera1 - Color Settings

Time Section	DefaultTime Section ▾			
EnableTime Section	<input checked="" type="checkbox"/>			
	00 ▾	:	00 ▾	-- 24 ▾ : 00 ▾
Brightness	 128			
Contrast	 64			
Chroma	 128			
Saturation	 64			
H-Sharpness	 9			
V-Sharpness	 15			
Denoise	0			

Default OK Cancel

4.3 Motion Detection

1. Choose the channel which needs to start motion detection.
2. Choose sensitivity. (Low/Middle/High sensitivity)
3. Choose Protection Time. (Protection whole day/ The custom time)
4. Choose the linkage option when the motion detection channel being triggered.

<1.Big picture alarming---- Preview page of DVR pop up alarming image.

<2.Trigger channel recording---- Select the channel which need to be triggered recording.

<3.Trigger screenshot---- Select the channel which need to screenshot.

<4.Trigger PTZ---- Can trigger the preset position/cruise/locus of fast ball in the equipment.

<5.Send email---- Can trigger the Email option of Network Setting to alarm. (Set Email and send to System Configuration--Network Setting--EMAIL)

Camera - admin

OSD **Setup**

COLOR

Smart

Motion

Video Loss

Masking

PTZ

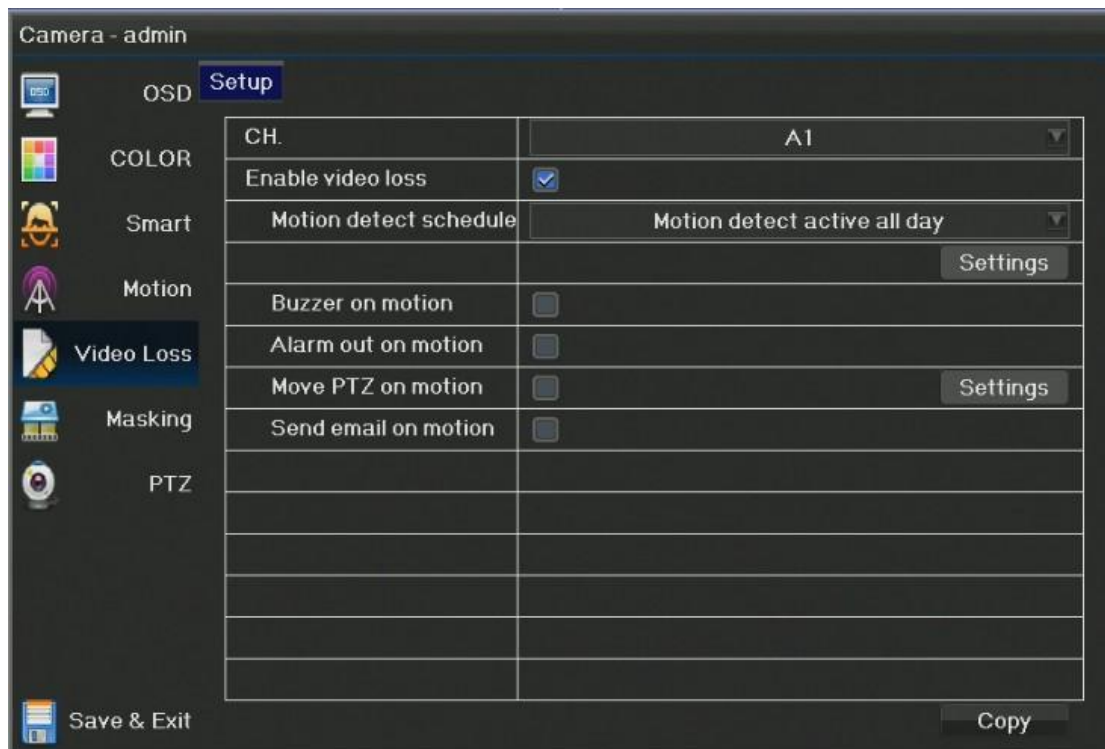
CH.	A1	
Motion detect enable	<input checked="" type="checkbox"/>	Settings
Motion detect sensitivit	Higher	
Motion detect schedule	Motion detect active all day	
		Settings
Full screen on motion	<input checked="" type="checkbox"/> VGA/HDMI	
Buzzer on motion	<input type="checkbox"/>	
Record on motion	<input checked="" type="checkbox"/>	Settings
Take snapshot on motie	<input type="checkbox"/>	Settings
Alarm out on motion	<input type="checkbox"/>	
Move PTZ on motion	<input type="checkbox"/>	Settings
Send email on motion	<input type="checkbox"/>	

Save & Exit

Copy

4.4 Video Loss

1. Choose the channel which alarming for video loss, check and deal with video loss, take some relative settings to this channel. Have linkage voice to alarm, trigger PTZ and send email functions.
2. Protection time----- Support Protection Whole Day and The Custom Time.
3. Trigger PTZ--- Can trigger the preset position/cruise/locus of fast ball in the equipment after the Video Loss.
4. Send email on motion: Send alarm notification through EMAIL. (For EMAIL setting, please refer to System/Network/EMAIL setting)



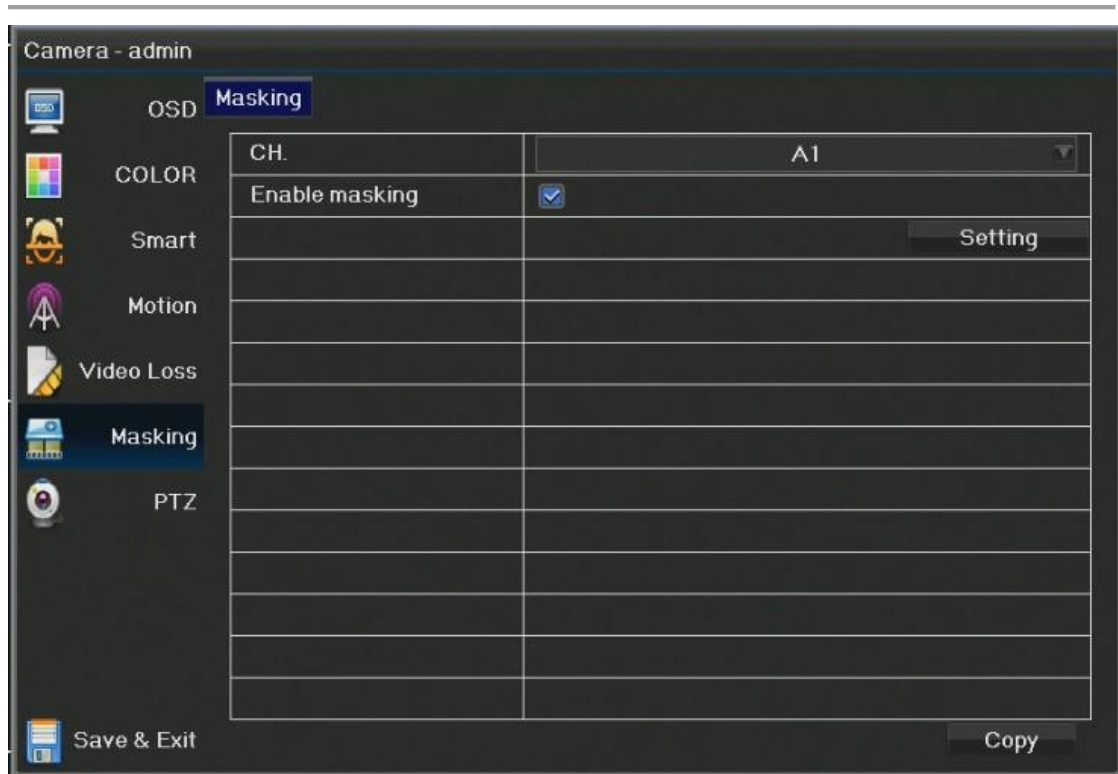
4.5 Video Masking

Cover some sensitive or related to privacy areas from surveillance live images. Select the channel to set, check starting video cover.


1. Select channel and check starting video masking.
2. Click【Set Masking Area】button, and enter into preview setting interface, click or move the designed masking area; if you want to cancel the designated masking area, just re-select the area is okay. After finishing the setting, click right-key and return back to video masking interface.

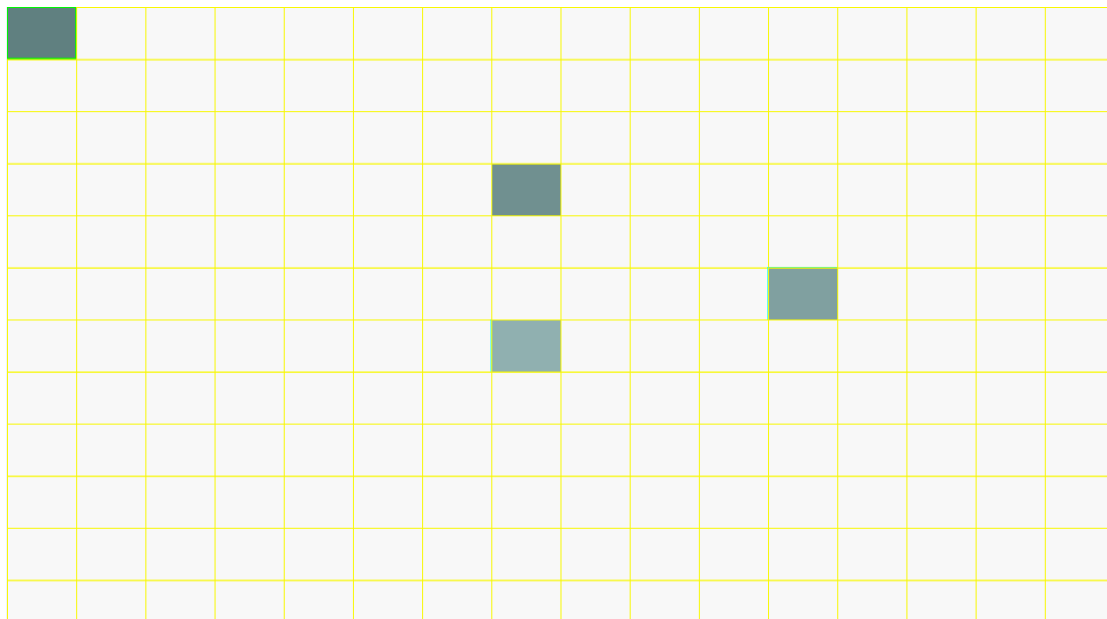
If other channels need to be changed, you can repeat the above steps; if has same setting, click 【Copy】 button, which will be copied to other channels.

Note: 4 masking areas can be set in each channel at most



masking area setting :

Click  to enter the masking area setting, like following



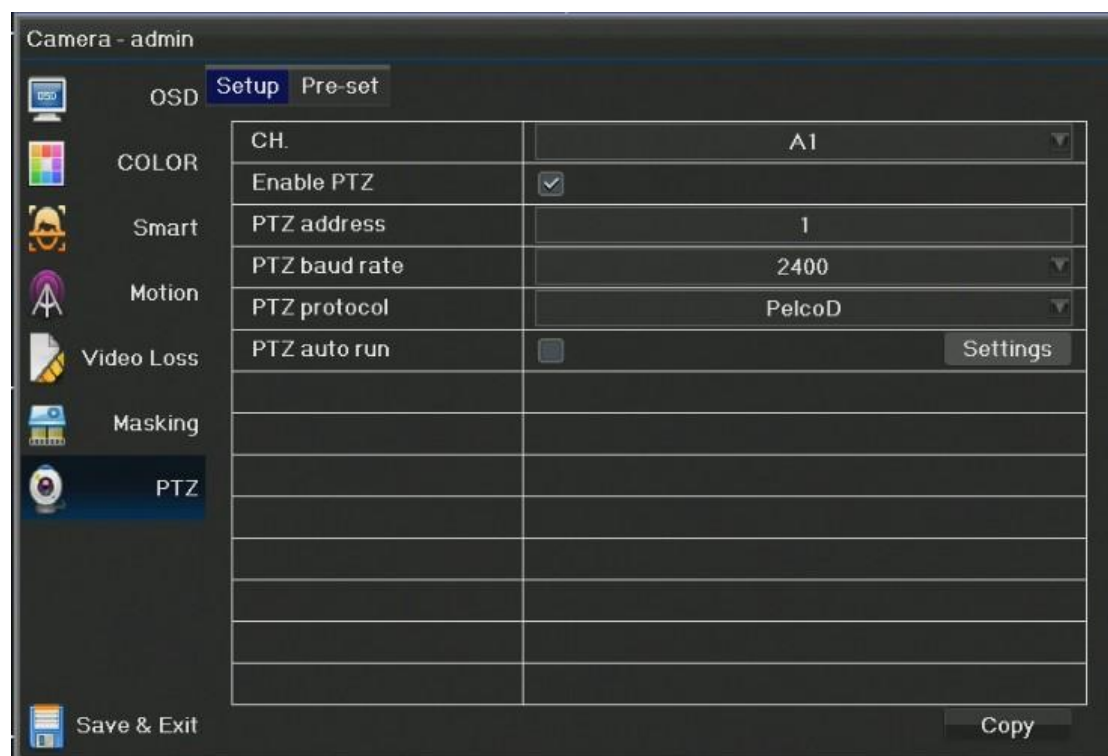
4.6 PTZ setting

4.6.1 Basic configuration

Basic configuration: can adjust PTZ protocol and address.

1. Choose the channel which will start the PTZ operation, check the Start PTZ operation, the interface is as below;
2. Input the PTZ address into its text-box; choose PTZ Baud rate and protocol.

Note: PTZ address should be same with PTZ dial-up, baud rate \ protocol and PTZ parameter should be the same.



Tick PTZ Auto Run, click the **【Settings】** button which is at the right side of

PTZ Auto Run, the interface is as below: Choose the Cycle, you can only tick one to set from preset positions, cruise and track; once finished, click 【Preview】 button to enter into preview interface, right-key to return back to interface; click 【Ensure】 button to return back to , succeed.

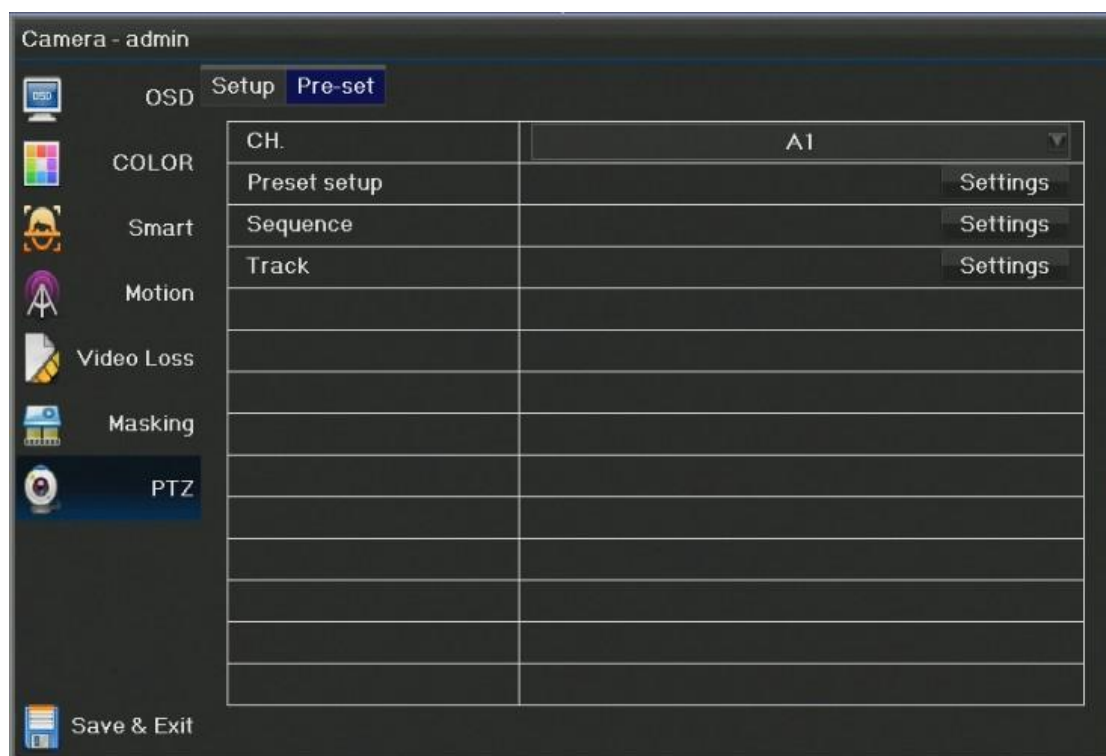
Note: PTZ Auto Run only can use one of preset positions, cruise and track.

(Linkage state mutually exclusive setting)

If other channels need to be changed, repeat the above steps; if has same setting, click 【Copy】 button, which will be copied to other channels

4.6.2 More configurations

More configurations (Pre-Set): you can set preset positions, sequence and track.



4.6.2.1 Setting of preset positions

Click right side **【Setting】** button to enter into interface, and select the channel and preset positions number , click **【Setting】** button to enter into interface, use PTZ control-key to adjust orientation, click **【Ensure】** button to return back to interface, succeed.

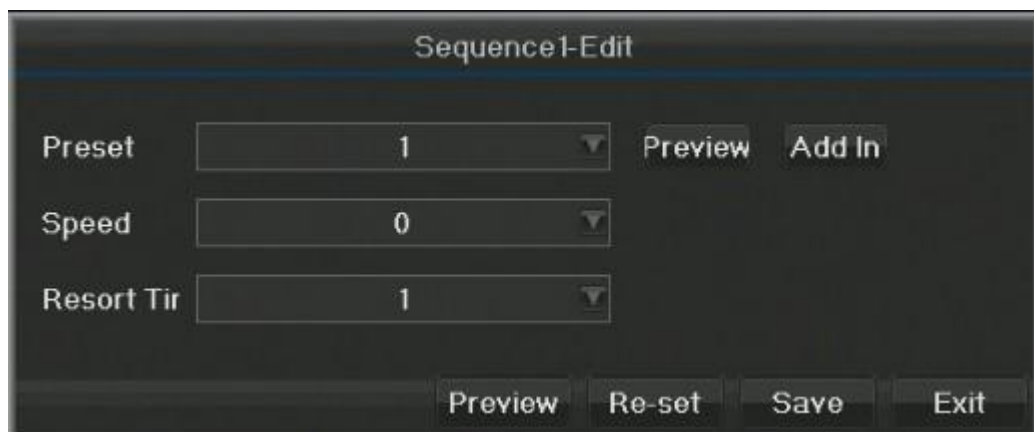


If you want to set more preset positions, repeat the above operations.

4.6.2.2 Setting of Sequence

Select the channel and sequence number to set, click right side **【Setting】**

button to enter into interface of this number sequence.

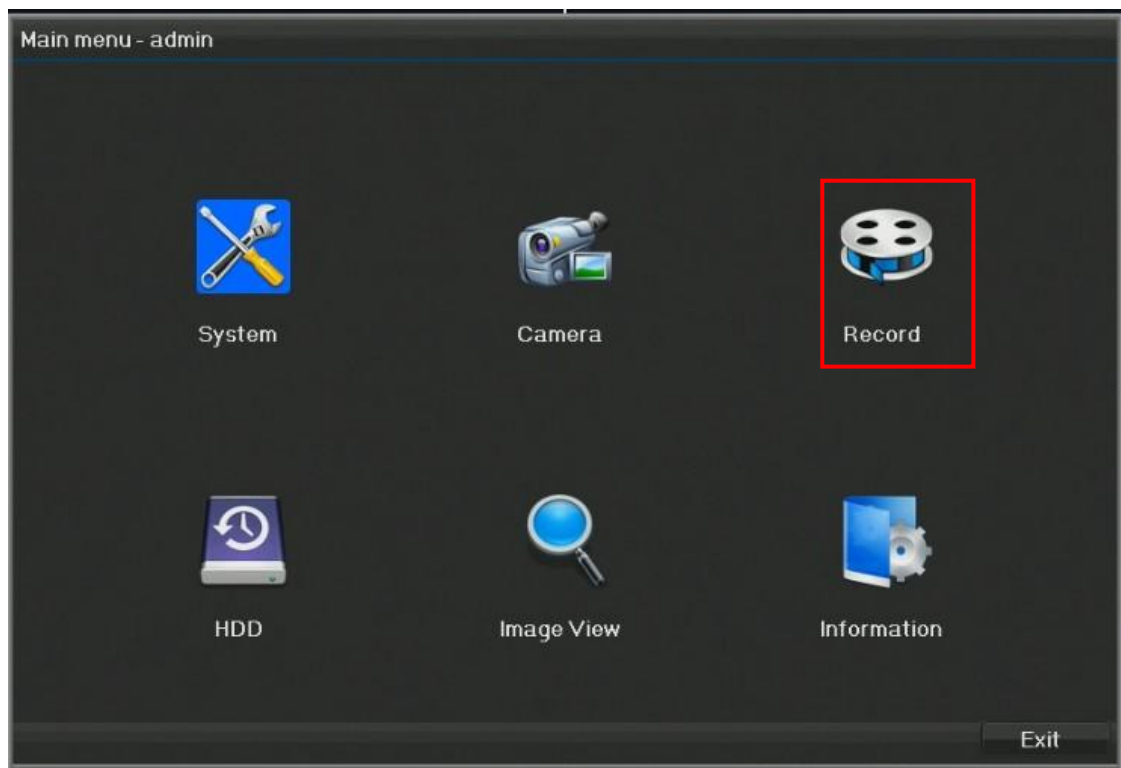


4.6.2.3 Setting of Track

Track is being used to record the traveling routine of PTZ, choose the setting channel, click the right side【Setting】 button and tick to start track recording, click 【Ensure】 button to return back to interface and make all kinds of control operations to PTZ, for example: make up, down, left, right orientation controls and etc. Setting finished, click【Setting】button of right side of Locus to enter into interface, tick to end the track recording, then click 【Ensure】 button to return back to PTZ control interface.



5 Main menu-Record



5.1 Main stream

- **Main stream :**
 - ◆ Code: H.264 or H.265
 - ◆ Stream type : Integrated flow (with audio), video stream.
 - ◆ Resolution : 8M-N/5M-N/4MP/3MP/1080P/720P/960H/D1 resolution
 - ◆ Frame rate : 8M@8fps 、 5M@10fps 、 4M@8fps 、 3M@10fps 、

3MN@18fps 、 4MN/1080P@15fps 、

720P/960H/D1@30/25fps ◦

- ◆ Quality: highest 、 higher 、 high 、 middle 、 low 、 lower
- ◆ Bit rate type : Constant stream, VBR.
- ◆ Bit rate : Maximum support 5415kbs

- **Sub-stream :**

- ◆ Code: H.264 or H.265
- ◆ Stream type : Integrated flow (with audio), video stream.
- ◆ Resolution : CIF/D1 resolution
- ◆ Frame rate : CIF/D1@30/25fps ◦
- ◆ Quality: highest 、 higher 、 high 、 middle 、 low 、 lower
- ◆ Bit rate type : Constant stream, VBR.
- ◆ Bit rate : Maximum support 333kbs

Record - admin

Setup Setup

Snapshot

Schedule

Advanced

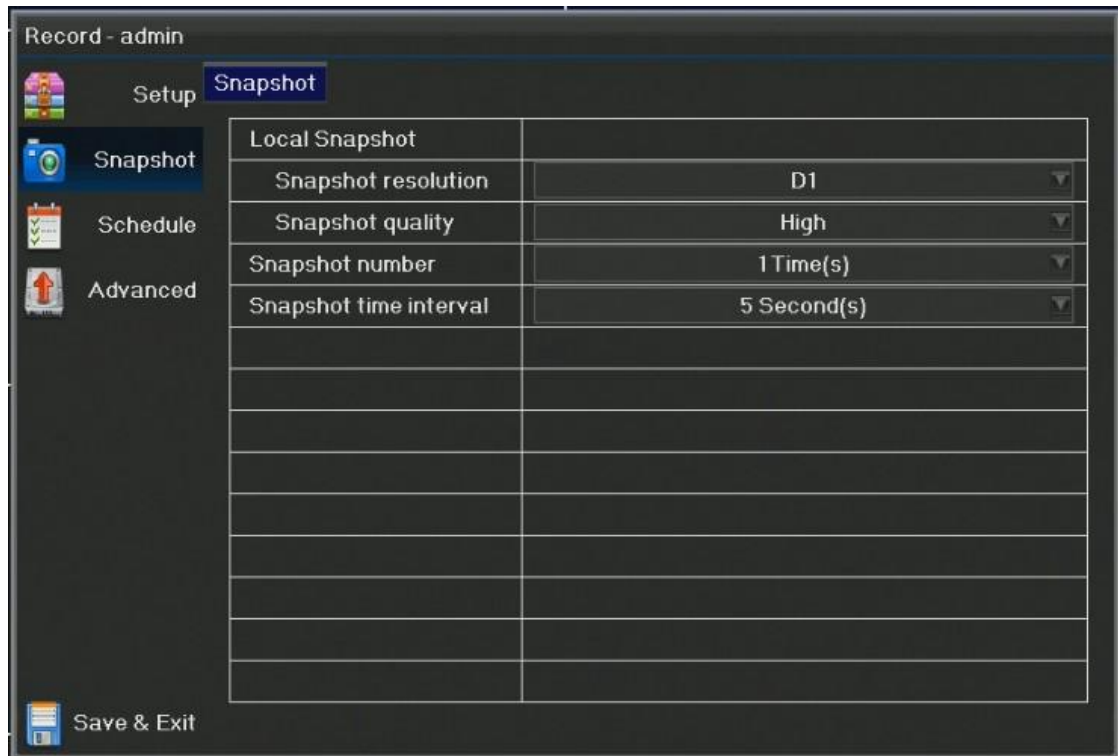
CH.	A1	
	Main	Sub Stream
Codec	H265	H265
Type	Video Only	Video Only
Resolution	5MP	CIF
Frame Rate	6fps	6fps
Bit rate type	Variable bit rate	Variable bit rate
Quality	High	Normal
Bit rate	----	----
	Input	Input

Save & Exit

Copy

5.2 Snap shot

Can set Screenshot Parameters(the screenshot button be used for toolbar and playback page)



5.3 Record Schedule

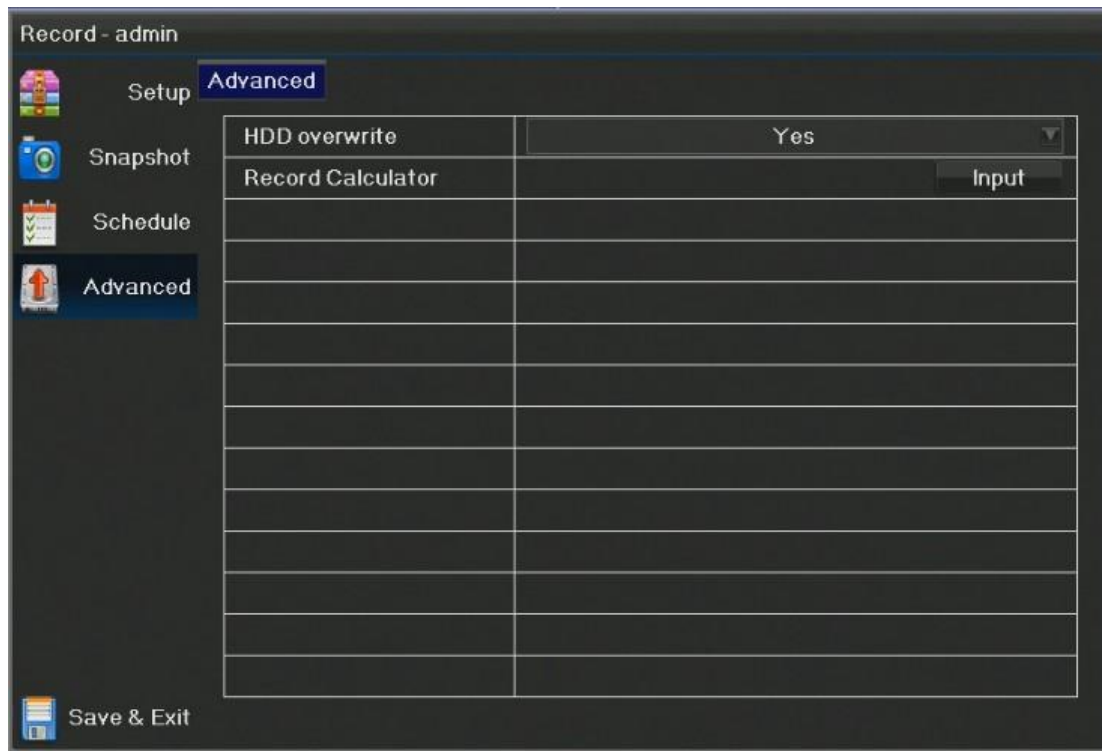
Can set various video schedule of channels. Support timing video, mobile video, and alarming video.

Copy button can make copy to other channels



5.4 Advanced configuration

- Recurrent writing: Whether the hard disk is in recurrent writing.
- Video computer: Click **Input** button to calculate the recording time.



- Record calculator :

Record Calculator

CH.	Resolution	FR	BR(kbps)	Recommend BR(Kbps)
CAM1	5MP	6	921	1843
CAM2	4MP	8	867	1735
CAM3	4MP	8	867	1735
CAM4	4MP	8	867	1735
CAM5	4MP	8	867	1735
CAM6	4MP	8	867	1735
CAM7	4MP	8	867	1735
CAM8	4MP	8	867	1735
CAM9	8MP-N	8	1137	2275
CAM10	1080P	15	850	1701
CAM11	1080P	15	850	1701
CAM12	1080P	15	850	1701
CAM13	1080P	15	850	1701
CAM14	1080P	15	850	1701
CAM15	1080P	15	850	1701

Disk Capacity Fixed ▾

Record Time

0	Month
= 1	Week
= 12	Day

Start Calculate

Disk Capacity

1	TB
= 1863	GB

Record hours per d 24

Exit


6 Main menu-HDD

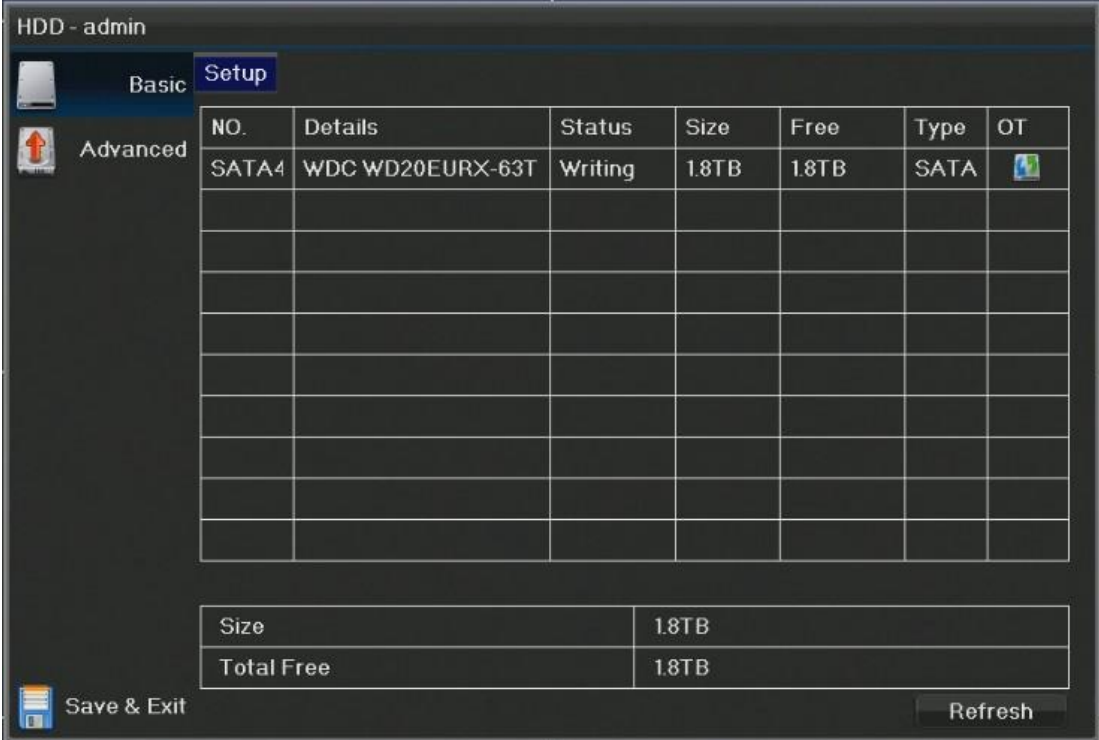


basic	Check All HDD of DVR which you can format
advanced	S.M.A.R.T detection can check disk condition


6.1 Basic configuration

Reveal all hard disks on the DVR.

click  this button to format hard disk.



The screenshot shows the 'HDD - admin' interface. On the left, there are two tabs: 'Basic' and 'Advanced'. The 'Basic' tab is selected, and within it, the 'Setup' sub-tab is active. The main area displays a table with the following data:

NO.	Details	Status	Size	Free	Type	OT
SATA4	WDC WD20EURX-63T	Writing	1.8TB	1.8TB	SATA	

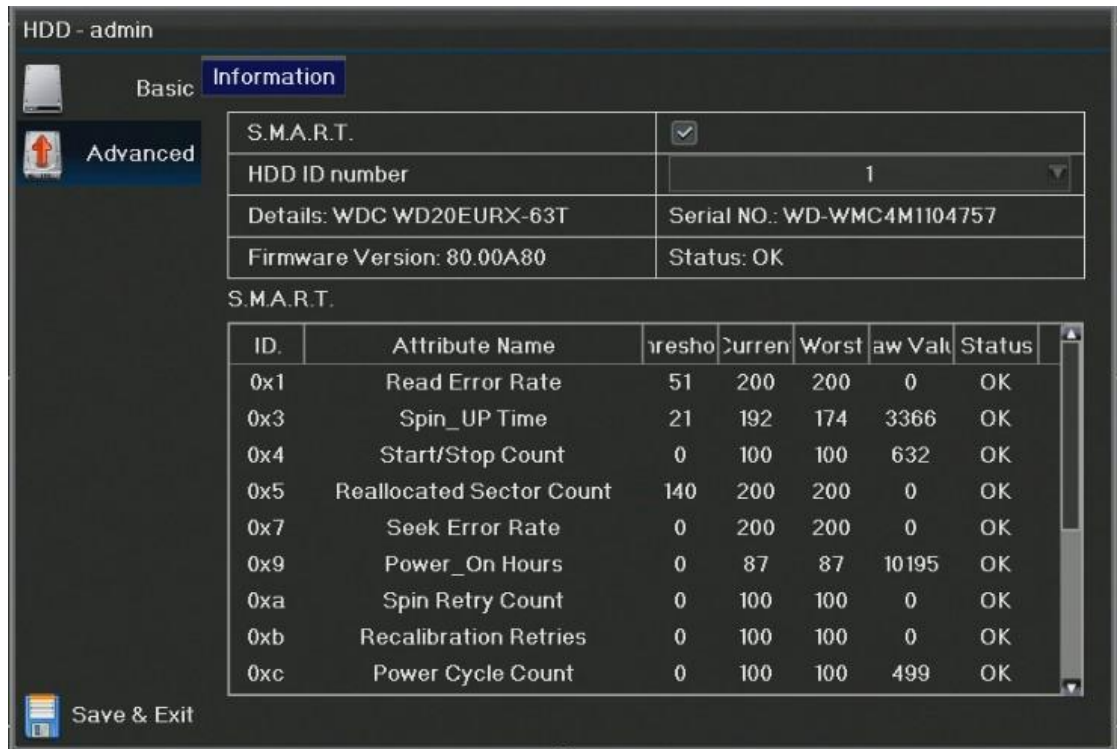
Below the table, there is a summary section with two rows:

Size	1.8TB
Total Free	1.8TB

At the bottom left, there is a 'Save & Exit' button with a floppy disk icon. At the bottom right, there is a 'Refresh' button.

6.2 Advanced configuration

After S.M.A.R.T detection, you can check the condition of hard disk



The screenshot shows the 'HDD - admin' interface with the 'Information' tab selected. The 'Advanced' section is expanded, displaying S.M.A.R.T. details for a hard disk. The S.M.A.R.T. status is 'OK'.

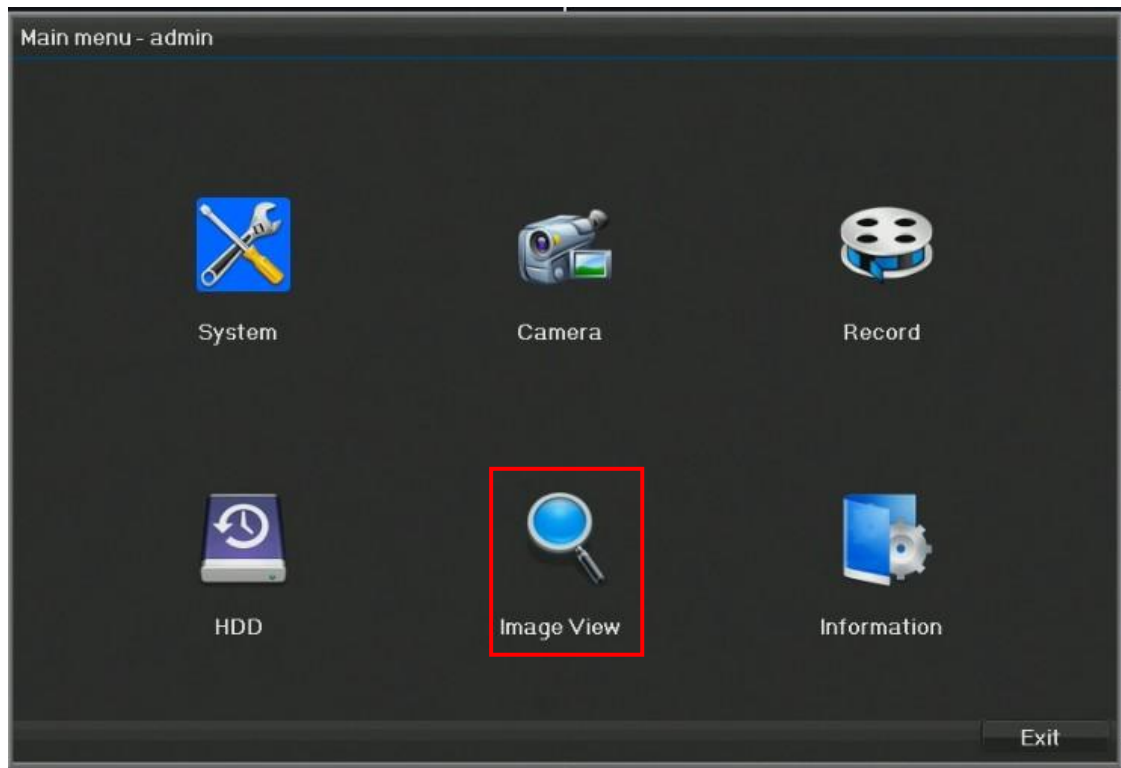
ID.	Attribute Name	resho	Curren	Worst	aw Val	Status
0x1	Read Error Rate	51	200	200	0	OK
0x3	Spin_UP Time	21	192	174	3366	OK
0x4	Start/Stop Count	0	100	100	632	OK
0x5	Reallocated Sector Count	140	200	200	0	OK
0x7	Seek Error Rate	0	200	200	0	OK
0x9	Power_On Hours	0	87	87	10195	OK
0xa	Spin Retry Count	0	100	100	0	OK
0xb	Recalibration Retries	0	100	100	0	OK
0xc	Power Cycle Count	0	100	100	499	OK

Additional information displayed in the interface:

- S.M.A.R.T. status:
- HDD ID number: 1
- Details: WDC WD20EURX-63T
- Serial NO.: WD-WMC4M1104757
- Firmware Version: 80.00A80
- Status: OK

Buttons: Basic, Information, Advanced, Save & Exit

7 Main menu-Image View

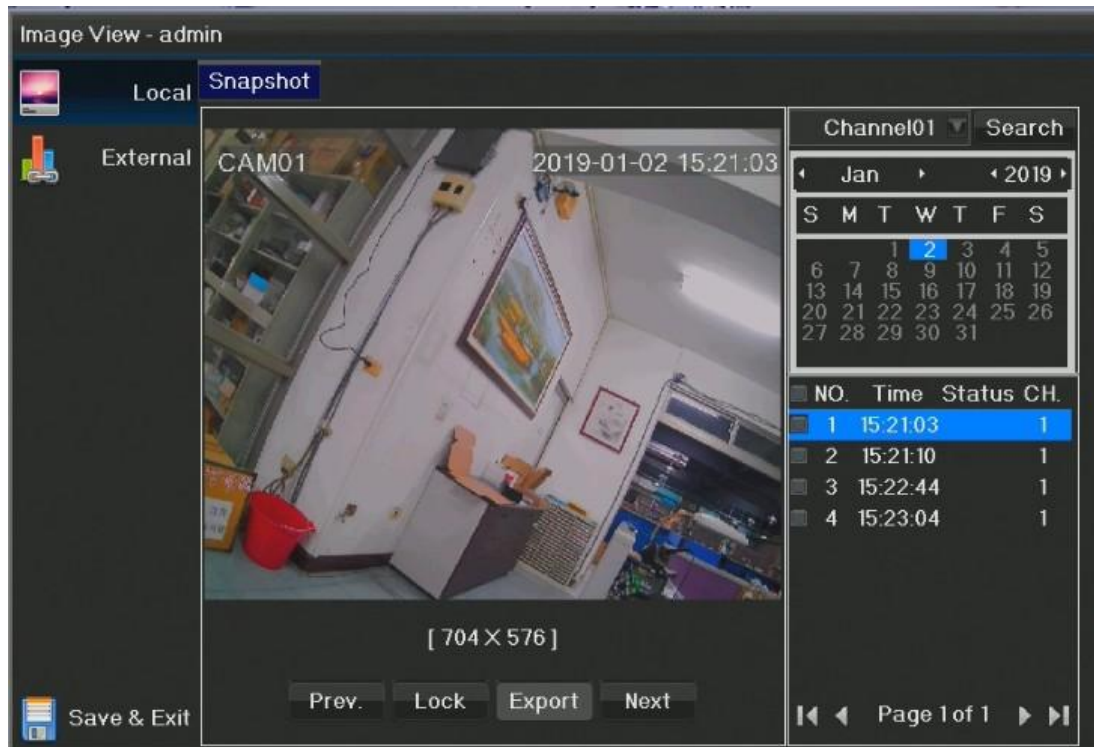


(click to enter into the matched sub-menu)

Local Image	Retrieve DVR local screenshot
External Image	Retrieve USB files

7.1 Local image

Can check the images inside of the equipment.(Click the pictures captured by main page screenshot button or playback screenshot button)

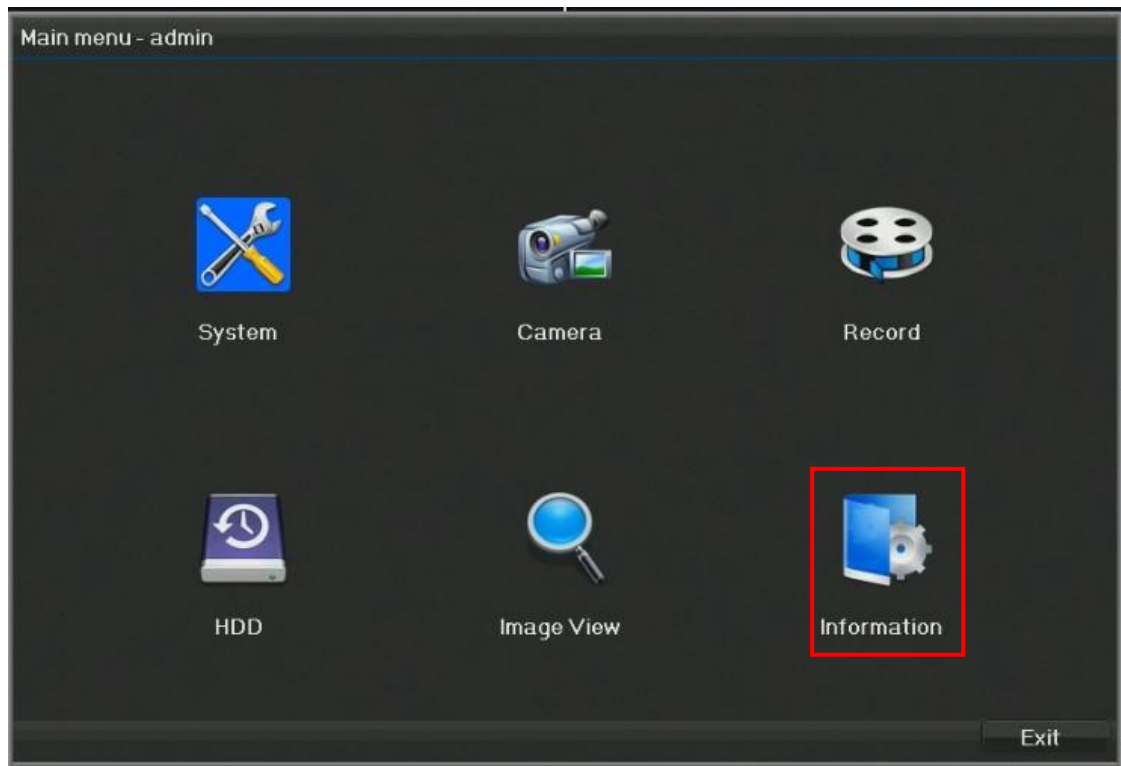


7.2 External

Plug USB Sticker to DVR and click **Refresh**, Can read the file inside of USB and play the pictures and videos from the USB equipment.



8 Main menu -Information



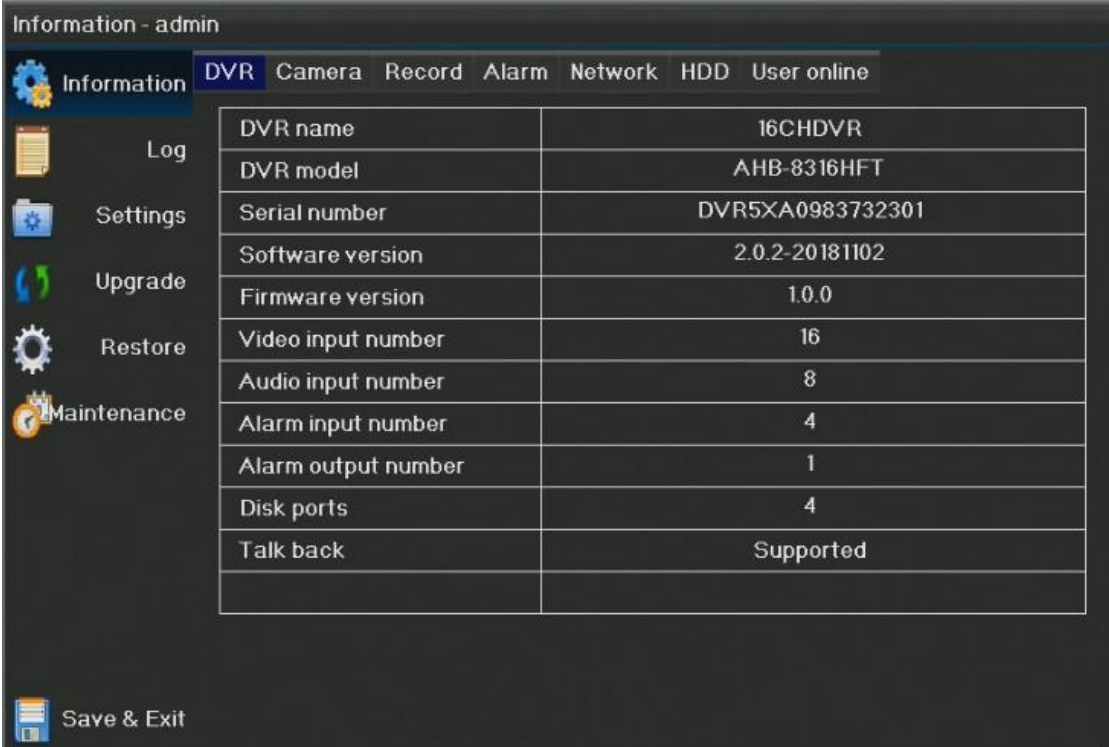
(click to enter into the matched sub-menu) **System Maintenance :**

System information	Reveal equipment' s system information
Log Information	Check equipment' s log information
Configuration Management	Backup/Recover Setting of equipment
Version Upgrade	Equipment software upgrade
Default Configuration	Equipment recover default setting
Automatic Maintenance	Equipment maintain functions automatically

8.1 System information

Reveal present system condition and information of DVR.

8.1.1 Basic information : Reveal equipment name, model NO and version



The screenshot displays the 'Information - admin' web interface. The 'DVR' tab is selected in the top navigation bar. The left sidebar contains menu items: Information, Log, Settings, Upgrade, Restore, and Maintenance. The main content area shows a table of system information.

DVR name	16CHDVR
DVR model	AHB-8316HFT
Serial number	DVR5XA0983732301
Software version	2.0.2-20181102
Firmware version	1.0.0
Video input number	16
Audio input number	8
Alarm input number	4
Alarm output number	1
Disk ports	4
Talk back	Supported

At the bottom left of the interface, there is a 'Save & Exit' button.

8.1.2 Camera : Reveal the present conditions of all channels

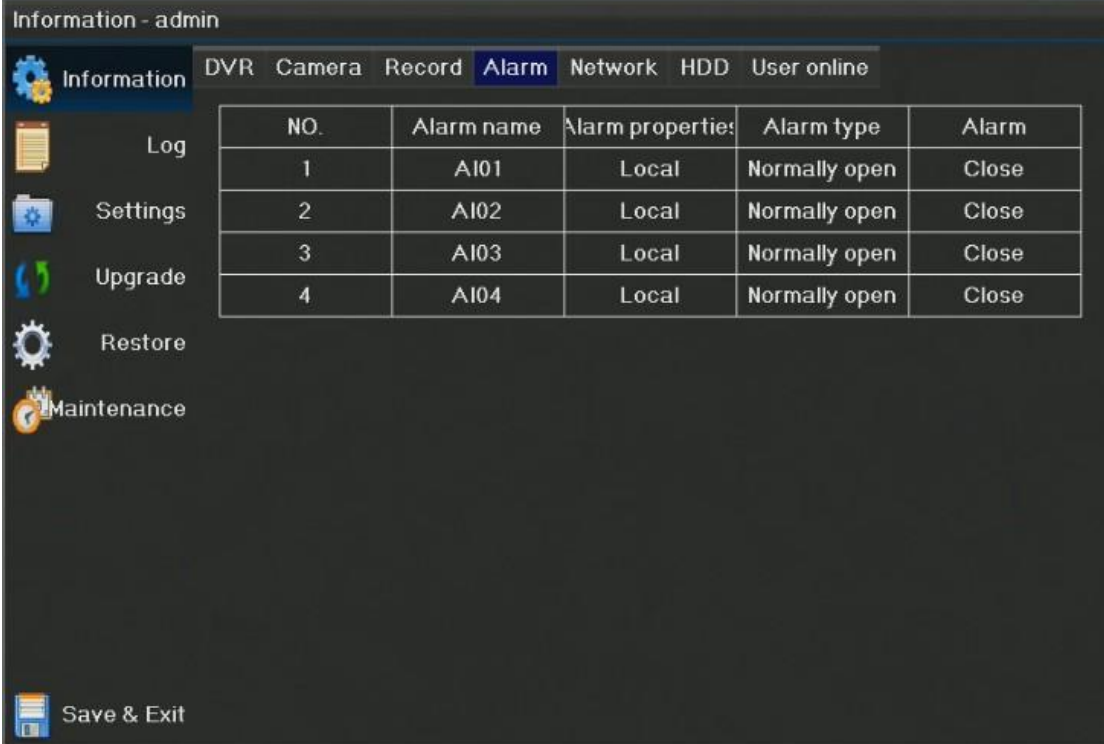
CH.	Motion detect	Video loss	Mask
A1	Disable	Disable	Disable
A2	Disable	Disable	Disable
A3	Disable	Disable	Disable
A4	Disable	Disable	Disable
A5	Disable	Disable	Disable
A6	Disable	Disable	Disable
A7	Disable	Disable	Disable
A8	Disable	Disable	Disable
A9	Disable	Disable	Disable
A10	Disable	Disable	Disable
A11	Disable	Disable	Disable
A12	Disable	Disable	Disable

8.1.3 Record : Reveal the present video states of all channels

CH.	Record	Type	FPS	Main (kbps)	Secondary (kbps)	Resolution
A1	Close	Video only	6fps	22	10	5MP
A2	Close	Video only	8fps	24	10	4MP
A3	Plan	Video only	6fps	540	16	5MP
A4	Close	Video only	8fps	24	10	4MP
A5	Close	Video only	8fps	23	10	4MP
A6	Close	Video only	8fps	24	10	4MP
A7	Close	Video only	8fps	24	10	4MP
A8	Close	Video only	8fps	24	10	4MP
A9	Close	Video only	8fps	24	10	8MP-N
A10	Close	Video only	15fps	26	10	1080P
A11	Close	Video only	15fps	26	9	1080P

Flow Total: 1Mbps

8.1.4 Alarm : show the alarm status(some DVR type didn' t support)

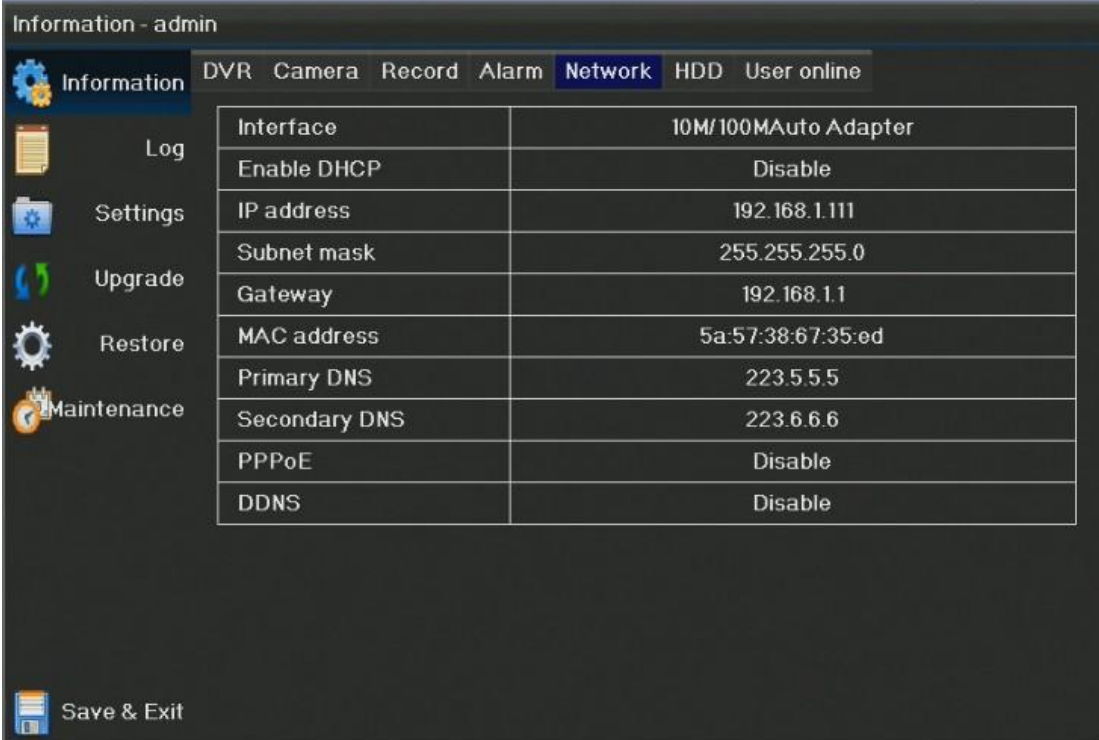


The screenshot displays the 'Information - admin' interface. The 'Alarm' tab is selected, showing a table with the following data:

NO.	Alarm name	Alarm properties	Alarm type	Alarm
1	AI01	Local	Normally open	Close
2	AI02	Local	Normally open	Close
3	AI03	Local	Normally open	Close
4	AI04	Local	Normally open	Close

The interface also features a sidebar with the following menu items: Information, Log, Settings, Upgrade, Restore, Maintenance, and Save & Exit. The top navigation bar includes: DVR, Camera, Record, Alarm, Network, HDD, and User online.

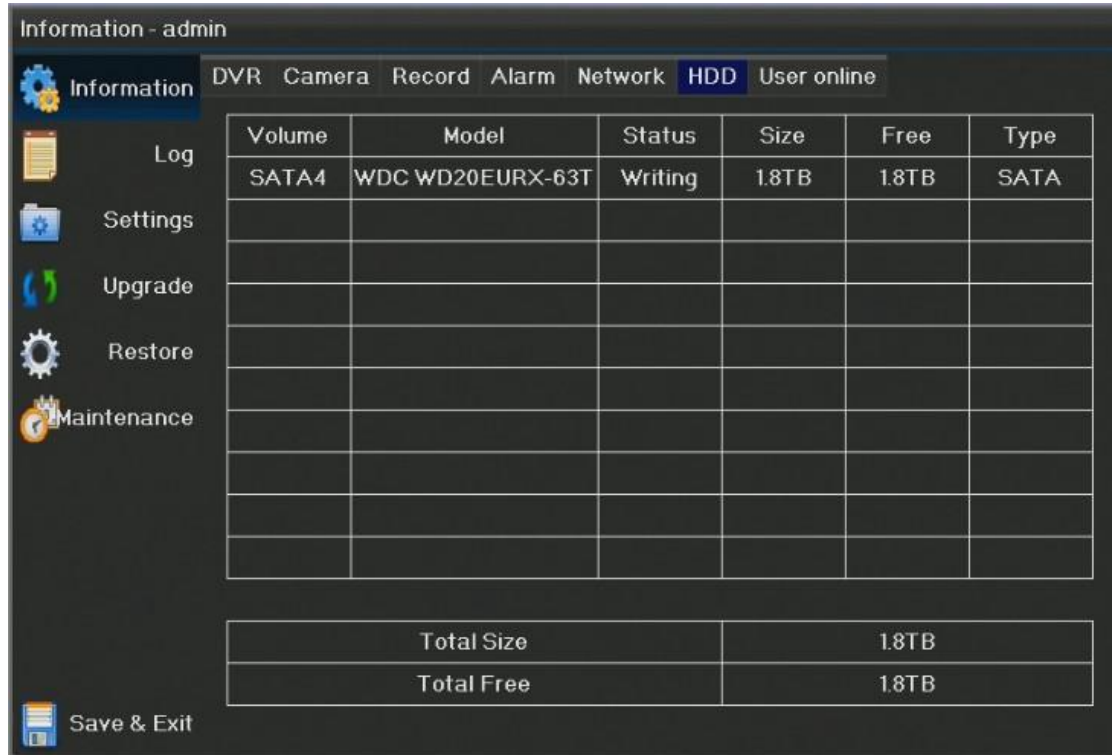
8.1.5 Network condition : Reveal the network information of DVR,
which involves DHCP condition and MAC address.



Interface	10M/100MAuto Adapter
Enable DHCP	Disable
IP address	192.168.1.111
Subnet mask	255.255.255.0
Gateway	192.168.1.1
MAC address	5a:57:38:67:35:ed
Primary DNS	223.5.5.5
Secondary DNS	223.6.6.6
PPPoE	Disable
DDNS	Disable

Save & Exit

8.1.6 HDD : Reveal all present disks installed on DVR and display the status.



8.1.7 User online : Can reveal the current log in users of equipment, also can reveal the IE and VMS log in users.

Information - admin

Information DVR Camera Record Alarm Network HDD **User online**

NO.	User name	Login type	Login time	FLUX
1	admin	Local	2019-01-02 15:47:12	-

Log Settings Upgrade Restore Maintenance

Save & Exit Page Up Page Down Disconnect

8.2 Log

Can check operation, alarming and error messages of equipment.

1. Choose log type. (the default is all)
2. Choose start time and end time.
3. Click Query Button to inquire the log information.
4. If need backup, you can insert USB flash disk and click Export button, after recognized the USB flash disk, click Backup will be okay.

Note: It has easy operation here: The hint of motion detection alarm log, click the play button and can playback the motion detection recording of this time directly.

Information - admin

Information **Log**

Log

Settings

Upgrade

Restore

Maintenance

Save & Exit

Log type	All					
Start time	2018	-	01	-	2	00 : 00 : 00
End time	2019	-	01	-	3	23 : 59 : 59

NO.	Recording time	Event	Link
424	2018-11-17 09:34:28	Detection Alarm Stop - Select Vide	
425	2018-11-17 09:34:16	Detection Alarm start - Select Vide	▶
426	2018-11-17 09:34:13	Detection Alarm Stop - Select Vide	
427	2018-11-17 09:34:00	Detection Alarm start - Select Vide	▶
428	2018-11-17 09:10:30	Detection Alarm Stop - Select Vide	
429	2018-11-17 09:10:18	Detection Alarm start - Select Vide	▶
430	2018-11-17 09:04:32	Detection Alarm Stop - Select Vide	
431	2018-11-17 09:04:18	Detection Alarm start - Select Vide	▶
432	2018-11-17 09:00:05	Detection Alarm Stop - Select Vide	

Total 519 Page 48 of 58

Export Search

8.3 Configuration management(Settings)

Can backup current device settings and recover setting backups of former device.

1. Insert USB flash disk and click export button, then you can export all current settings from DVR to USB flash disk.

2. Insert USB flash disk and pick on exported files, click import button and import the former exported setting data, the device will prompt to reboot after importing. DVR setting will be recovered as the imported setting data after restarted.

Note: USB flash disk need to be recognized, it should have backups before if you want to import. Please don't import or export between different devices.

Information - admin

Information **Settings**

Log

Settings

Upgrade

Restore

Maintenance

Device	/dev/sdb1			Refresh
Name	Size	Type	Modified time	
20181120113435.xml	157KB	File	2018-11-20 11:34:34	
teraterm		Folder	2017-10-23 16:35:14	
tem Volume Informa		Folder	2018-09-03 15:14:50	
IS-1.0.13.3(CMS&NV		Folder	2018-10-17 10:46:06	
PL2303driver		Folder	2017-10-24 14:16:12	
P210x_VCP_Window		Folder	2018-06-04 14:28:52	
123		Folder	2018-11-06 15:38:50	
Tool-v0[1].06T37U_2		Folder	2018-11-08 10:39:04	
SDFormatter4exe		Folder	2014-12-30 16:05:48	
RS232_driver		Folder	2018-11-20 14:32:34	

Total 12 Page 1 of 2

Save & Exit 20181120113435.xml Export Import Full Import

8.4 Version upgrade

Can make upgrading for device version, the left side upgrade button can reveal full name of selected files.

1. Can double-click the file to upgrade.
2. Can select the file with left-key and click upgrade button to make upgrading.

The equipment will reboot automatically after upgrade, which will remind error information of file if upgrade failure.

Note: USB flash disk need to be recognized and should have upgrade software inside. (Format the USB flash disk in advance will be better)

Information - admin

Information Upgrade

Log

Settings

Upgrade

Restore

Maintenance

Device	/dev/sdb1		Refresh
Name	Size	Type	Modified time
x876_V2.0.2.20181102	14MB	File	2018-11-12 10:57:22
RS232_driver		Folder	2018-11-20 14:32:34
AHG-5350PR-U_201	1MB	File	2018-11-29 15:38:26
8T-GL_V4.03.R11.76	12MB	File	2018-11-29 16:25:54
car_set		Folder	2018-12-03 13:42:26
MP_NVP2475_PS55	1MB	File	2018-12-04 15:43:54
ameraSearcher(v3.0		Folder	2017-12-07 14:15:06
E872_V4.02.R11.2018	11MB	File	2018-04-09 08:50:56
nk3xx_usb.bin	36MB	File	2017-10-31 13:32:50
4R-GS_V4.03.R11.76	12MB	File	2018-12-19 09:31:30

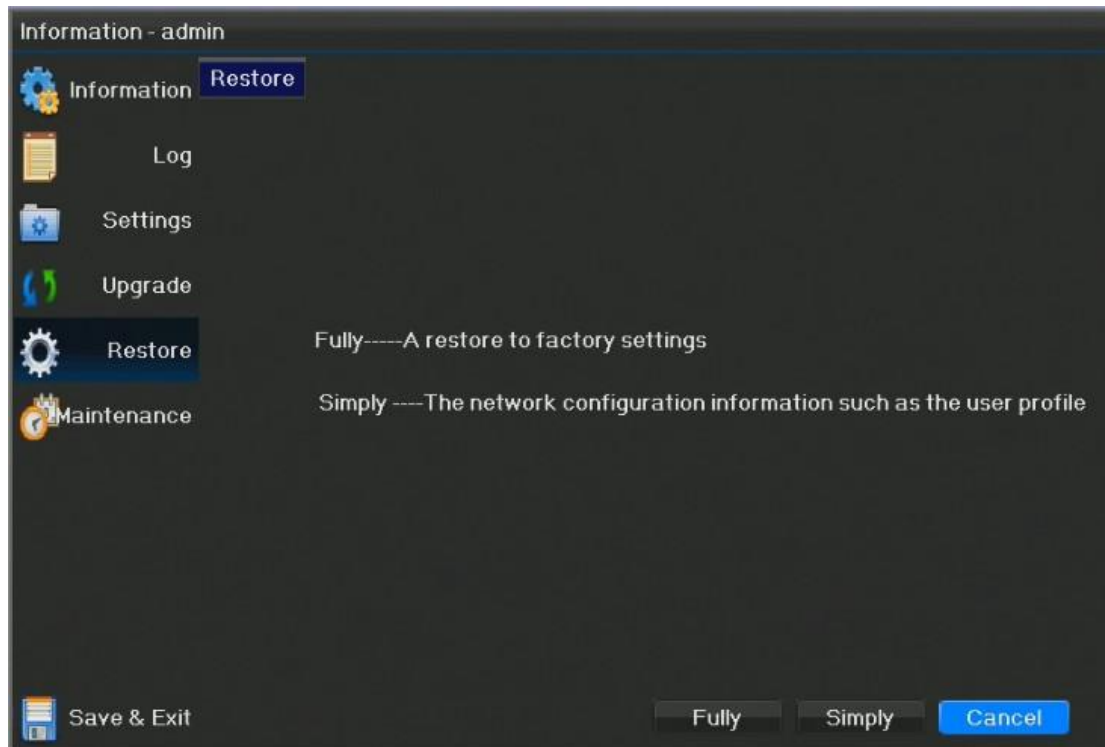
Total 55 Page 5 of 6

Save & Exit VDH-x876_V2.0.2.20181102.bin Upgrade

8.5 Default configuration(Restore)

This item is recovering default setting option: 1, simple recovering 2.

Default recovering (back to the default)



Click Ensure button, then will remind you whether need to be restarted or not. The equipment will recover to factory default status after reboot.

Note: IP address and user name won't recover to settings whe simply recover is selected.

8.6 Automatically Maintenance

The device can restart the maintenance automatically in a certain time after enabling the feature.

- Maintenance mode: Disable, Every day, Every week, Once.
- Disable: Cannot use the function
- Every day: After setting the time, it can restart maintenance every day at the same time.
- Every week: Can set timing maintenance at single day, and set specific date maintenance from Monday to Sunday.
- Once: This mode will become Forbidden mode after Single-pass maintenance.

