VACRON
ADVANCES IN SECURITY SOLUTIONS

User Manual

AHD

2015 NOV V1.2

WARNING

- Do not expose the DVR under the sunlight, heat or wet environment while installation. As it could decrease the performance of DVR and damage the machine.
- Do not touch the power plug or case with wet hands as this could result electric shock.
- Do not forcedly bend or put heavy object on power cable as this could result in injury to personal or equipment.
- Do not operate with damaged power cord or loose electrical outlet as this could result in electric shock or accident.
- Please use individual power instead of share electrical outlets with other electrical equipment as this could result in damage or accident.
- Do not attempt to service this DVR by yourself as it may expose you to dangerous voltage or other hazards. Please refer all service to the qualified servicing distributor.
- Please do not remove the machine housing during operation. It may cause electric shock or accidental injury.

CAUTION

- Do not place the machine on an uneven surface or it would decrease the DVR efficiency or malfunction.
- Avoid any shock or bumping of the DVR while recording. Improper handling could damage the system.

CAUTION

Make sure the voltage selector switch is set to appropriate setting before plug in!

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A. DVR System Operation

1. Front Panel Operation
   Please refer to Front Panel Instruction in the User Manual in attached disk.

2. Operation with Mouse
   - In LIVE mode: Right click to enter MAIN MENU
   - Click LEFT Key to enter /select menu operation.
   - In MAIN MENU, user can enter SUBNENU by clicking left keys on the icon.
   - Click RIGHT key to quit
   - User can change setting by mouse or virtual keyboard in the menu.

B. DVR System Operation

1. Power ON

Make sure power cable is firmly connected, and then turn on the power. The initial process will take around 20 seconds, buzzer sound will be heard when process is finished.

The default video display is multiple screen display. Recording will start automatically if recording is scheduled, the assigned channel shows red-dot.

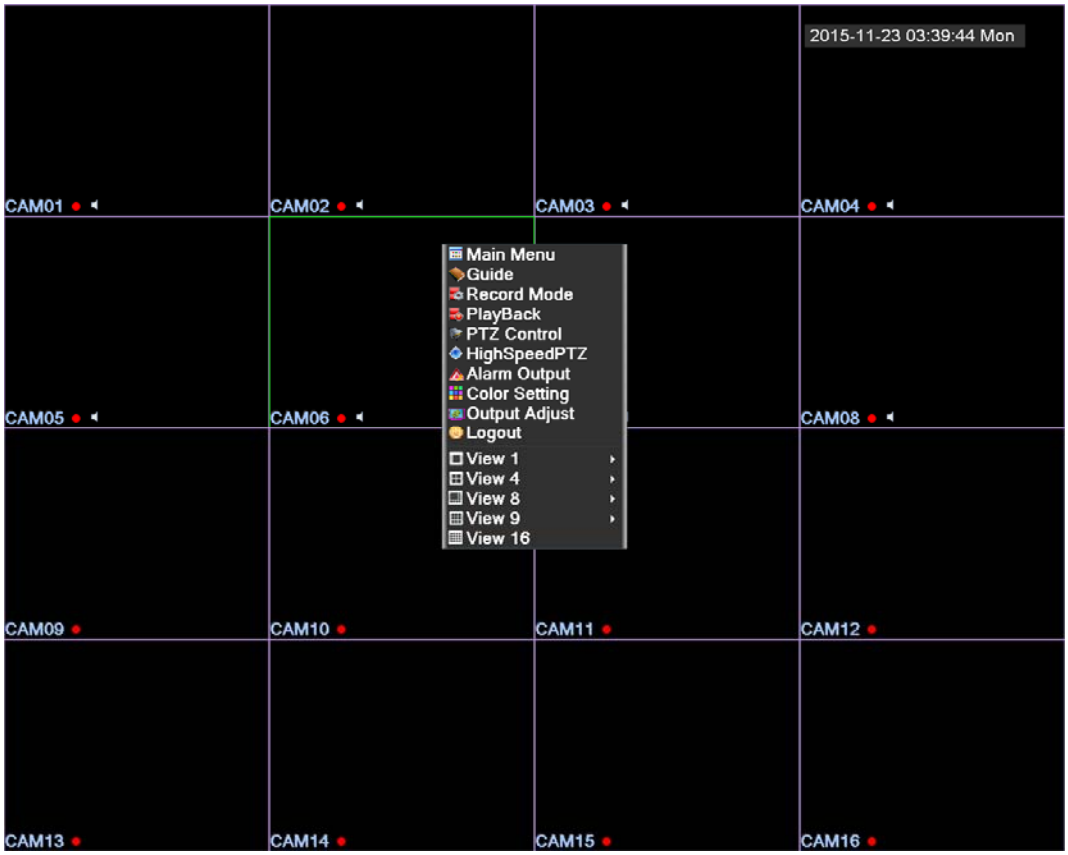
Memo:

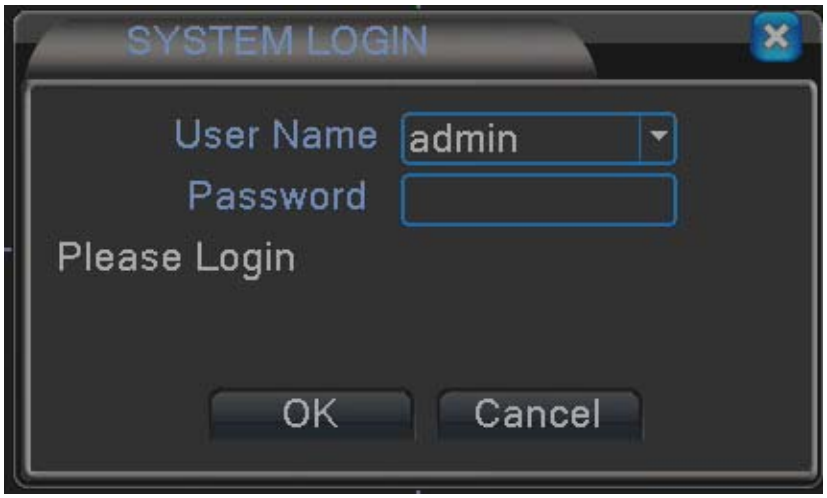
1. Please vertify imput power voltage is coherent to DVR power requirement, firmly plug on the power line befor switch the power on.
2. Please refer DVR hardware and power requirement on the specification chart. Strongly recommend connect DVR to a stable power supply, if possible, please connect to UPS system.

2. Power ON

User can shut off the system by [MENU] > [Shut Off] > [Comfirm], or to turn off the power on the back panel.

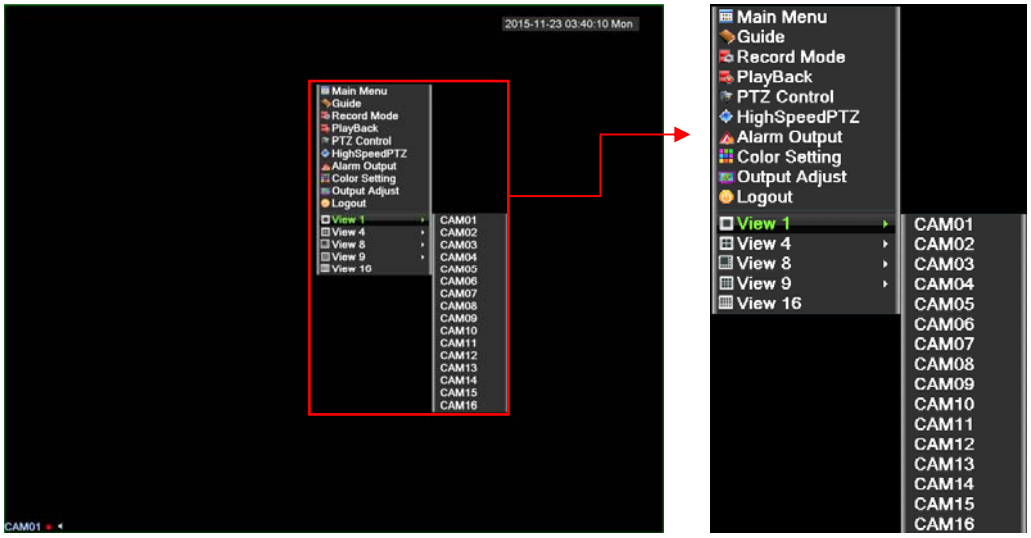
3. Function Illustration



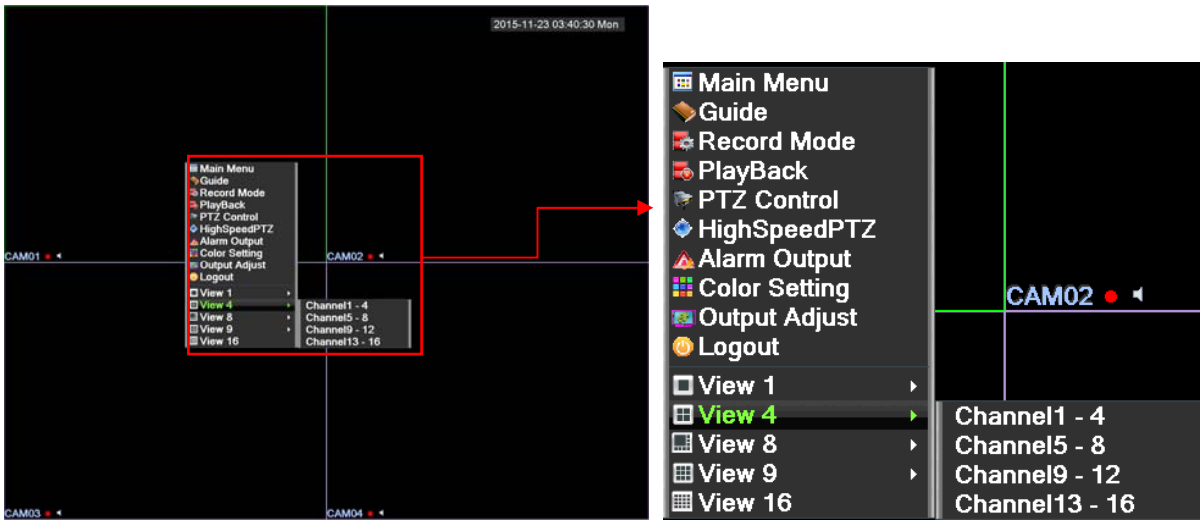


In the multi- screen, right click the mouse, and a Quick-menu pop up. Select Main Menu or rest functions, key in Account ID & Password to login. Default Value of Account ID: admin, Password: blank.

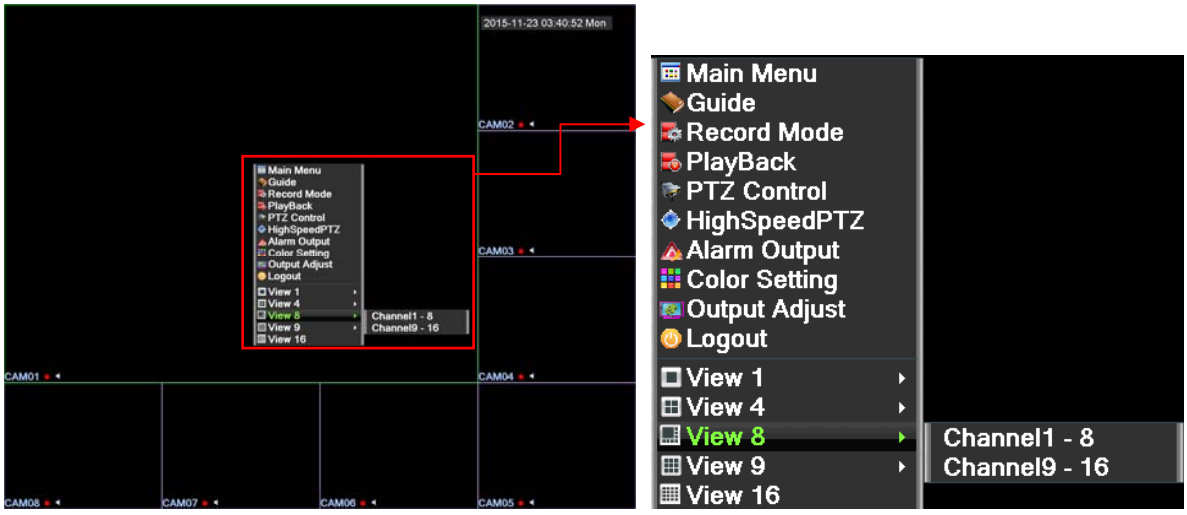
4. Display Setup



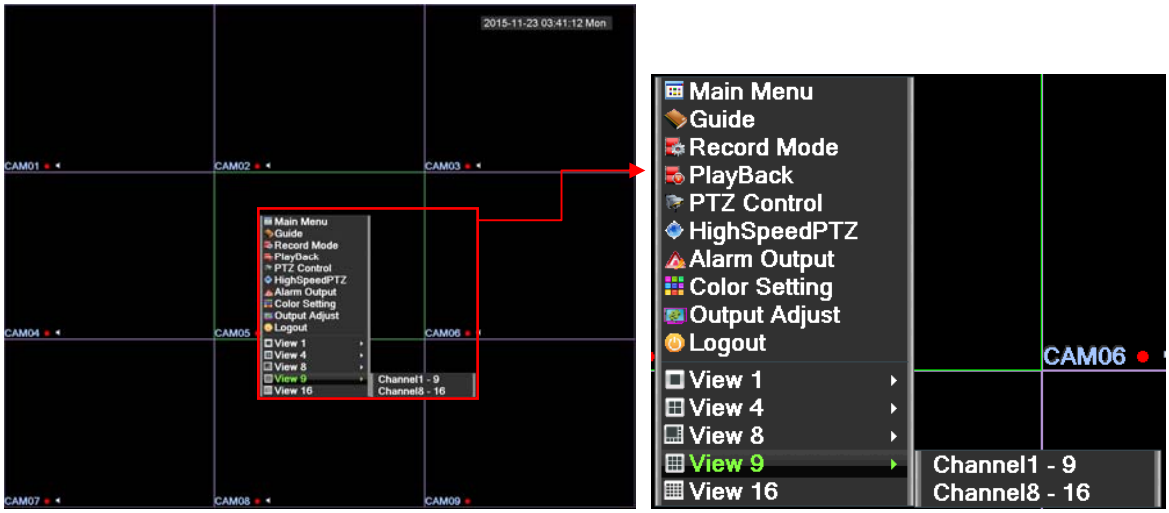
Select View 1 for monitoring Single screen, optional CAM01~16 single screen.



Select View 4 for monitoring 4 screens, optional CAM1~4 ,4, CAM5~8, CAM9~12, CAM13~16.



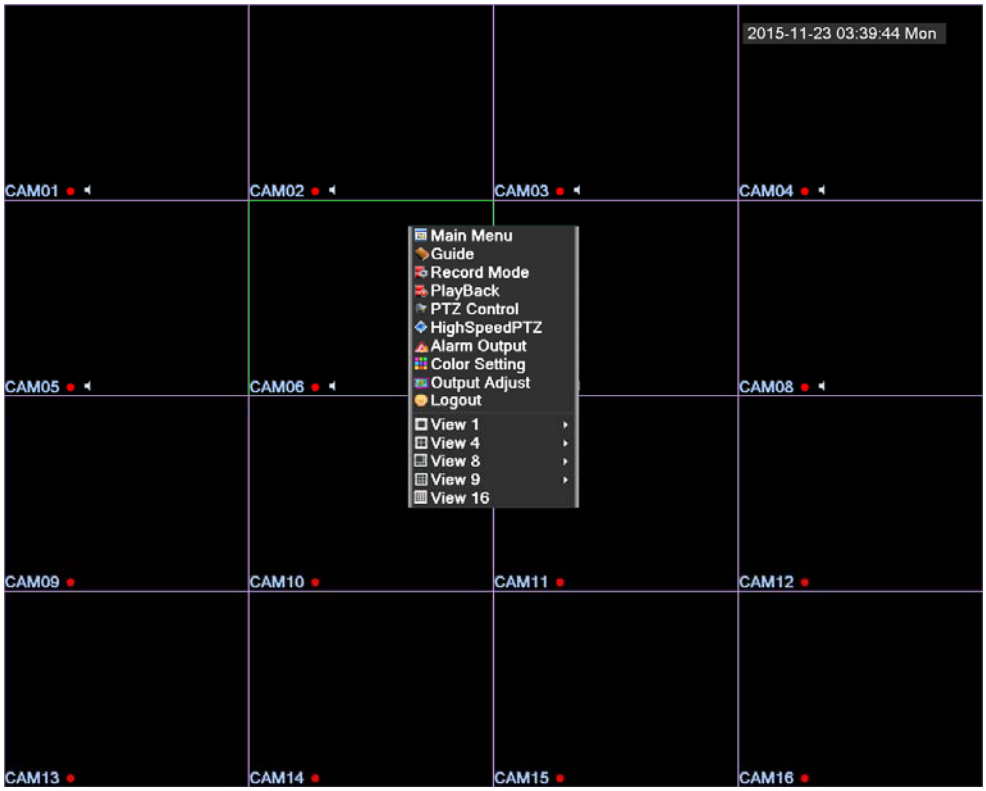
Select View 8 for monitoring 8 screens, optional CAM1~8, CAM9~16.



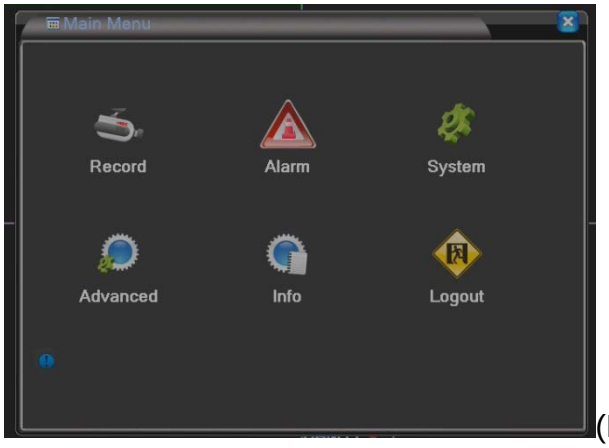
Select View 9 for monitoring 9 screens, optional CAM1~9, CAM8~16.

Select View 16 for monitoring 16 screens, 16 split screen.

5. Main Menu



(Figure 1)



(Figure 2)

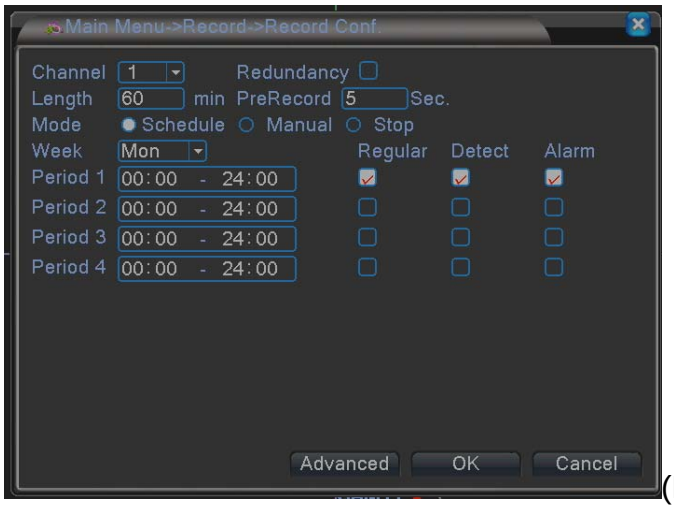
Right click the mouse, select Main Menu and it will pop out, as (Figure 1) & (Figure 2).

5.1 Record

(Figure 3)

：Select (Figure 2) Record icon, pop out (Figure 3) page.

5.1.1 Record Conf



(Figure 4)

: Select (Figure 3) Record Conf. icon, pop out (Figure 4) page.

Channel：Scroll down window to Set the settings for 1Ch or all Ch, default value is channel 1.

Redundancy：HDD RAID, when install the 2nd HDD, it is able to activate the disk mirror function. It simultaneously uploads the records to another HDD. Default value is Off.

Length：Adjust the time period of recording, at least 1 Min, Max 120 Min. Default value is 60 Min.

Prerecord：

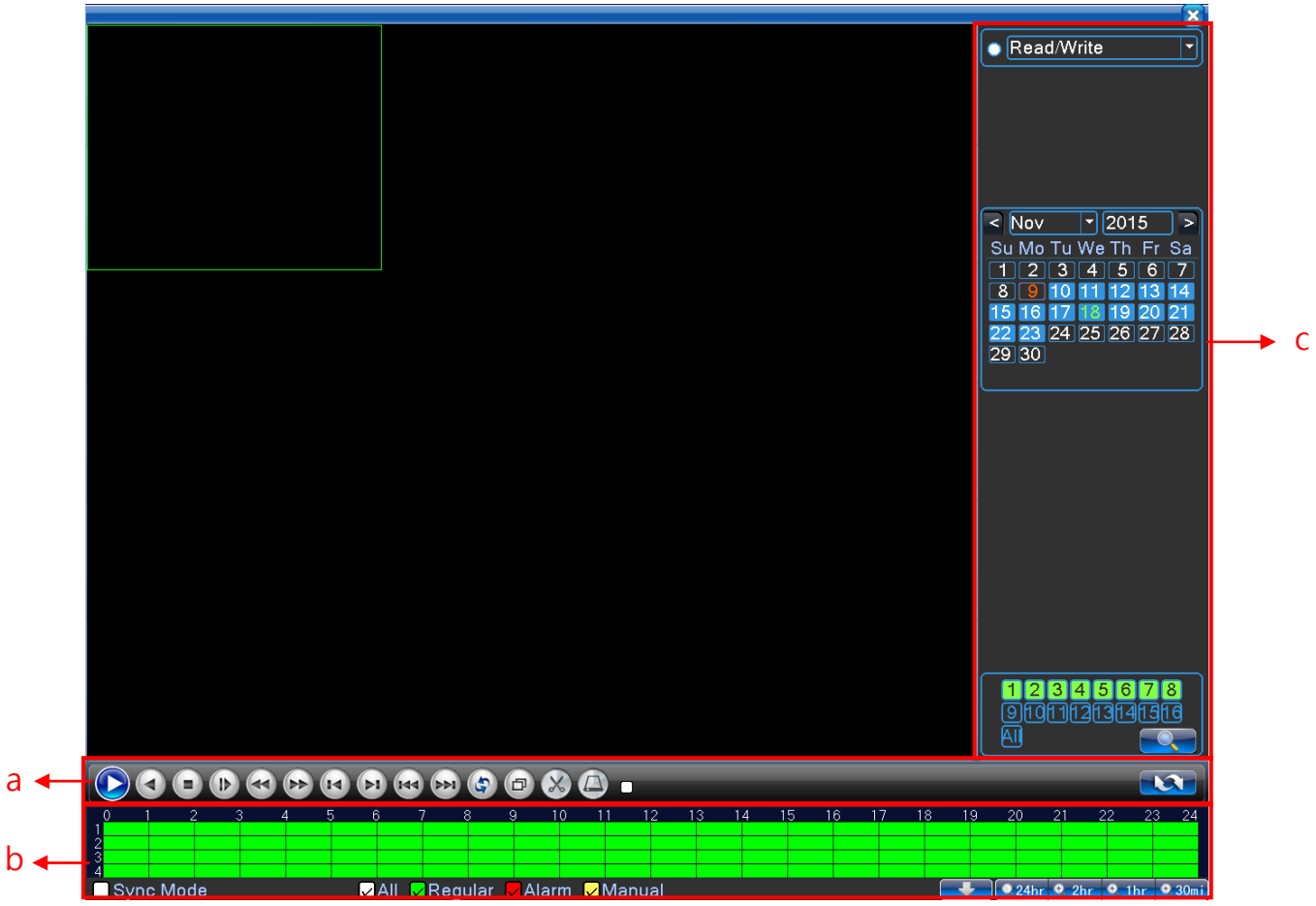
Mode：3 options: Schedule, Manual & Stop.

Schedule mode: select requested days first, and then select recording mode & time, total 4 periods of time to choose;

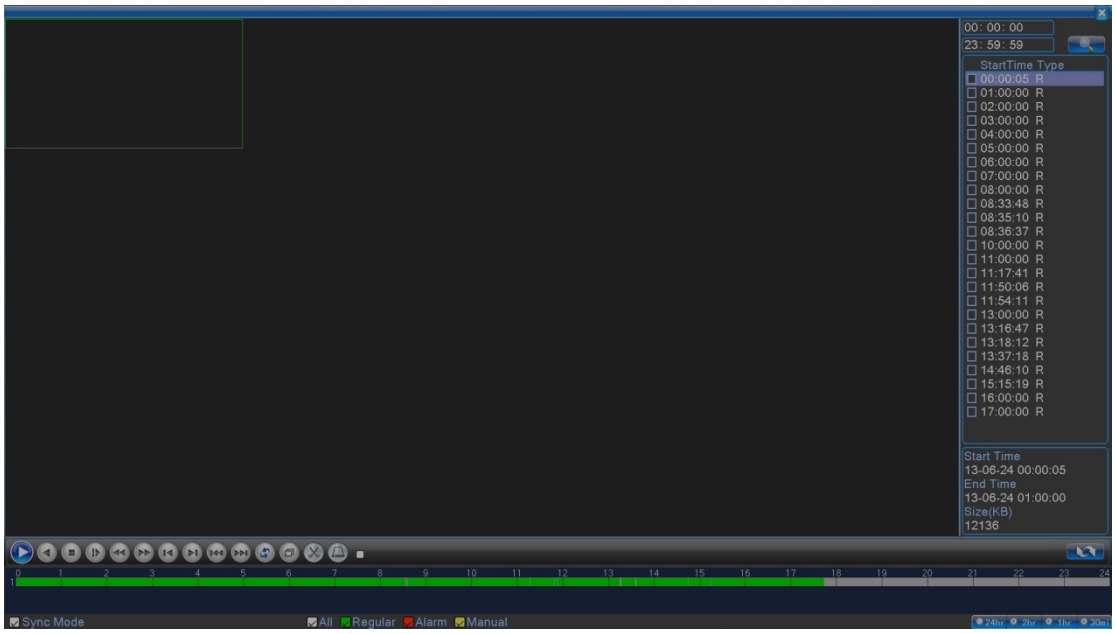
Manual mode: must complete the settings before recording;

Stop mode: no recording at all; default value is settings.

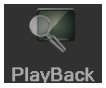
5.1.2 PlayBack



(Figure 5)



(Figure 6)



：Select (Figure 3) PlayBack icon, pop out (Figure 5) page.

a).

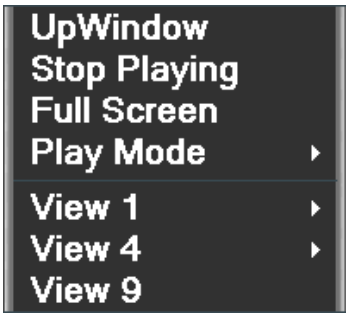
	Play	select date & channels, click play button to playback.
	Pause	Pause the video
	Back forward	Rewind Play Video
	Stop	Stop video playback
	Slow playback	4 speed options: 1X、2X、3X、4X. Return to normal speed, just click play button once again.
	Fast rewind	4 speed options: 1X、2X、3X、4X. Return to normal speed, just click play button once again.
	Fast forward,	4 speed options: 1X、2X、3X、4X. Return to normal speed, just click play button once again.
	Click pause rewind button	rewind the image frame by frame.
	Click pause playback button	playback the image frame by frame.
	Previous file button	back to last hour file and playback.
	Next file button	go to next hour file and playback.
	Click repeat button	icon becomes to , repeat same file.
	Click full screen button	enlarge the image. Click one more time back to normal.
	Click scissors button	let icon becomes to , select requested period of time, and click one more time to backup the file.
	While using scissors button	this function will be activated. Save modified file to USB (Flash disk).

b).

	Playback selected options; default value is select all.
	Select this function, click pause button or others to make it active; without selecting this function, only single Channel works.
	Select more accurate timing for playback, such as 24hr, 2 hr, 1 hr, 30 min; default value is 24 hr.

c). Select a date to get into time table page, like (Figure 6), and

click return to date searching page.



Right click mouse, a dialogue pops out.

UpWindow: Click to return previous layer, and back to Record page.

Stop playback：Click to stop, select “Stop playback” to stop playing.

Full screen display: Click “Full screen” to enlarge images to maximum, and then right click mouse to close full screen.

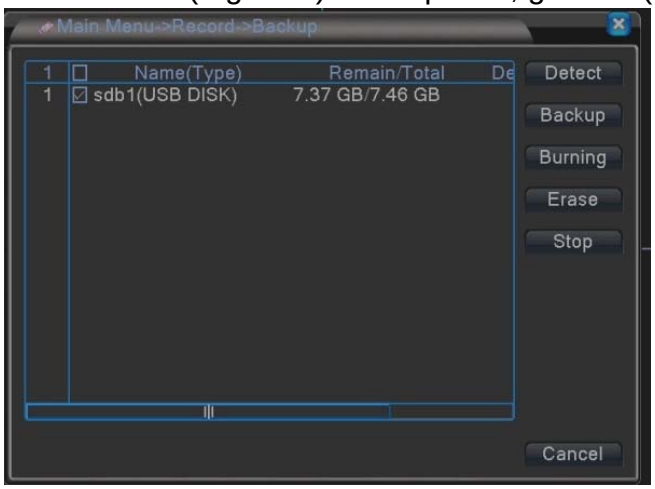
Single screen：Select single screen, choose 1~16 Ch to playback.

Four screens：Available options Ch1~4, Ch 5~8, Ch 9~12, Ch 13~16 to playback.

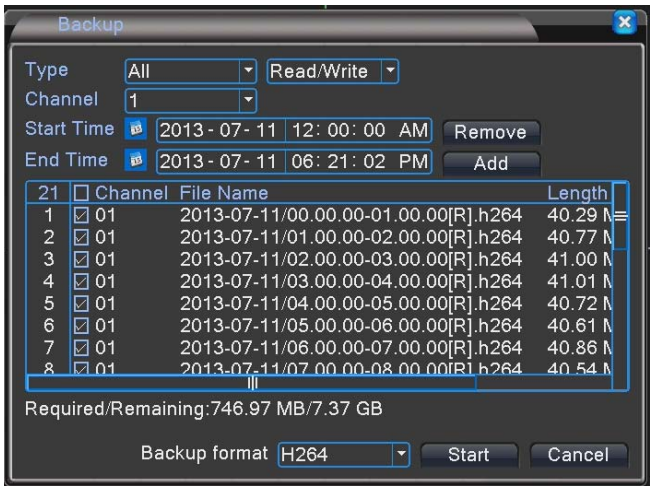
Nine screens：Available options Ch1~9, Ch 8~16.

5.1.3 Backup

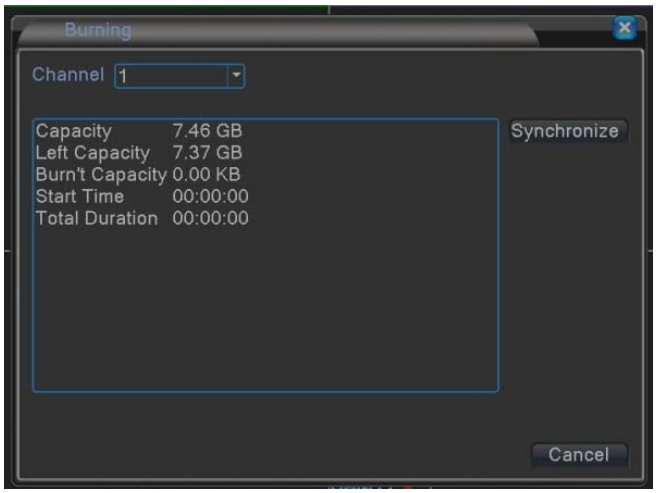
: Select (Figure 3) Backup icon, get into (Figure 6) page.



(Figure 6)



(Figure 7)



(Figure 8)

Detect：Plug in USB storage device, click detect to search USB storage which will be shown in window, like (Figure 6).

Backup ：Select backup icon to get into (Figure 7) page.

Type：All、External alarm、Motion detection、All alarm、Manual、Normal; default value is All channels.

Channel：select which channels need to Backup, optional from Ch1~16; default value is Ch1.

Start Time：select what time need to start backup.

End Time：select what time to end backup.

Remove：Remove selected files.

Add：Add selected types or channels.

Backup format：select H264 or AVI; default value is H264.

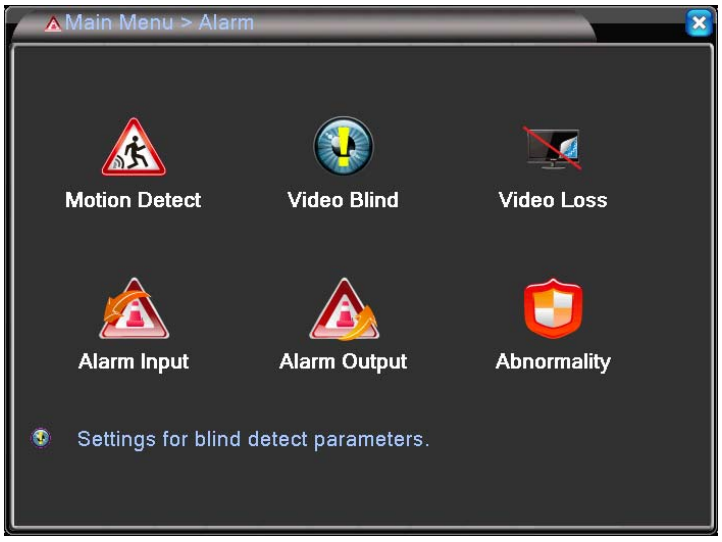
Burning ：Select Burning icon to get into (Figure 8) page, enable to save any one Channel's record into an USB storage device Synchronously.

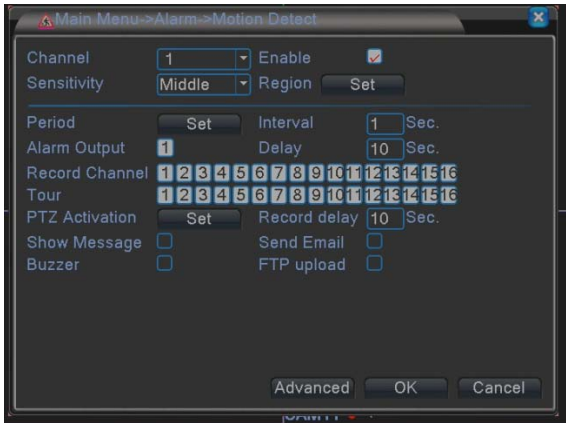
Erase ：Format selected USB storage device.

Stop ：While backup, click stop icon to stop backup.

5.2 Alarm

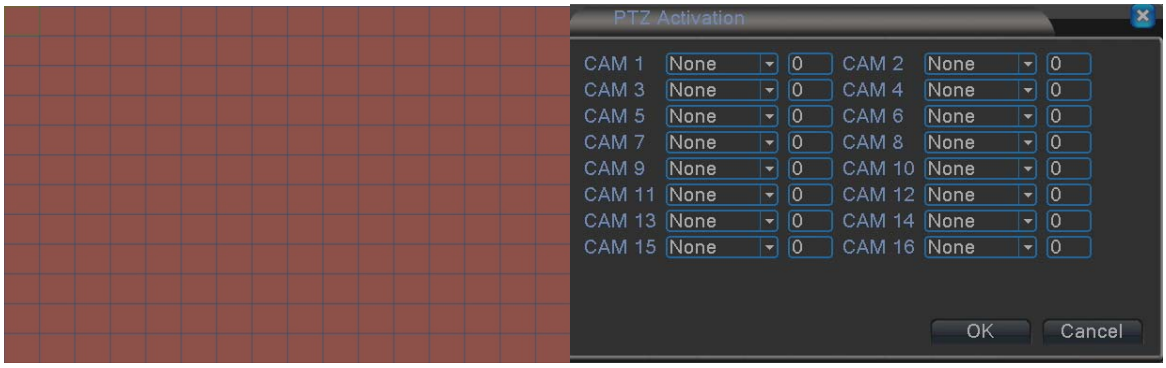
Alarm: Select (Figure 2) Alarm icon, get into (Figure 9) Page.





(Figure 9)

(Figure10)



(Figure 11)

(Figure 12)

5.2.1 Motion Detect

: Select (Figure 9) Motion Detect icon, get into (Figure 10) page.

Channel：setup ch1~ ch 16 for individual settings, also can setup for all channels.

Enable：Select to setup for the Motion Detect functions; default value is Off.

Sensitivity：Set the sensitivity level, from lowest、lower、middle、higher、much higher、highest, 6 options. Default value is middle.

Region: Select triggered area, as (Figure 11); default value is all area.

Period：setup the alarm settings from Monday to Sunday, Any 4 days.

Interval：Time between each trigger, 1 ~600 Sec.

Alarm Output：According to the settings to trigger alarm output; default value is Off.

Delay: A time period to record after triggering motion detect alarm, option: 10 ~ 300 Sec; default value is 10 Sec.

Channel Recording：Select which channel to record after motion detect is triggered; default value is Off.

Tour：Channel pops out after alarm is triggered. If select all channels, it jumps from Ch 1 to ch16 in sequence; default value is Off.

PTZ Activation：Setup the PTZ function from Ch1 ~ Ch16, as (Figure 12).

Record delay：The recording duration after the buzzer being triggered. Option: 10 ~ 300 Sec; default value is 10 Sec.

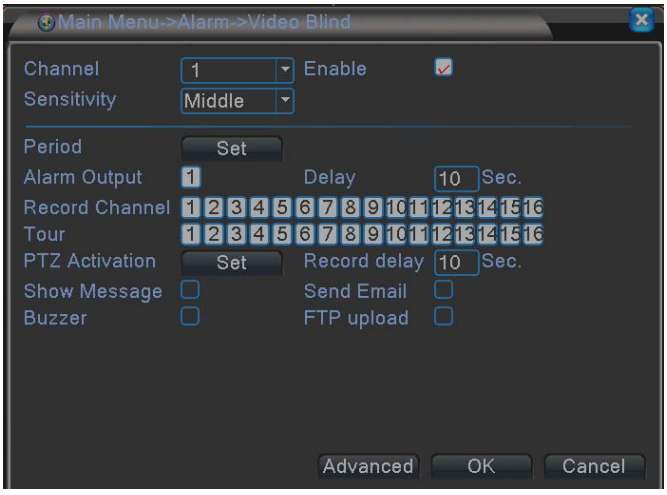
Show message：Setup for a prompt message show on the screen when motion alarm is triggered; default value is Off.

Send Email：Setup to send triggered Message to assigned email address when motion alarm is triggered; default value is Off.

Buzzer：Setup for buzzer beeping after motion alarm is triggered; default value is off.

FTP Upload：Setup to upload photos to assigned FTP server when motion alarm is triggered.

5.2.2 Video Blind



(Figure 13)

: Select (Figure 9) Video Blind icon, get into (Figure 13) page.

Channel：setup ch1~ ch 16 for individual settings, also can setup for all channels.

Enable：Select to setup for the Video Blind functions; default value is Off.

Sensitivity：Set the sensitivity level, from lowest、lower、middle、higher、much higher、highest, 6 options. Default value is middle.

Period： ：setup the Video Blind from Monday to Sunday, Any 4 days.

Alarm Output：According to the settings to trigger Video Blind output; default value is Off.

Delay: A time period to record after triggering Video Blind, option: 10 ~ 300 Sec; default value is 10 Sec.

Record Channel：select which channel to record after Video Blind is triggered; default value is Off.

Tour：Channel pops out after Video Blind is triggered. If select all channels, it jumps from Ch 1 to ch16 in sequence; default value is Off..

PTZ Activation：Set the PTZ function from Ch1 ~ Ch16, like (Figure 12).

Record Delay：The recording duration after the buzzer being triggered Video Blind. Option: 10 ~ 300 Sec; default value is 10 Sec.

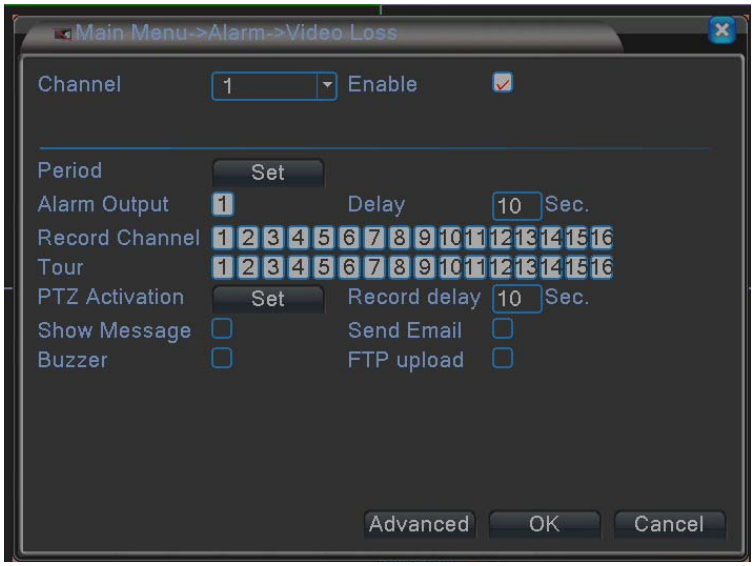
Show message：Setup for a prompt message show on the screen when Video Blind is triggered; default value is Off.

Send Email：Setup to send triggered Message to assigned email address when Video Blind is triggered; default value is Off.

Buzzer：Setup for buzzer beeping after Video Blind is triggered; default value is Off.

FTP Upload：Setup to upload photos to assigned FTP server when Video Blind is triggered.

5.2.3 Video Loss



(Figure 14)

:Select (Figure 9) Video loss icon, get into (Figure 14) page.

Channel：setup ch1~ ch 16 for individual settings, also can setup for all channels.

Enable：Select to setup for the Video Loss functions; default value is Off.

Period：setup the Video Loss from Monday to Sunday, Any 4 days.

Alarm Output：According to the settings to trigger Video Loss output; default value is Off.

Delay: A time period to record after triggering Video Loss, option: 10 ~ 300 Sec; default value is 10 Sec.

Record Channel：select which channel to record after Video Loss is triggered; default value is Off.

Tour：Channel pops out after Video Loss is triggered. If select all channels, it jumps from Ch 1 to ch16 in sequence; default value is Off..

PTZ Activation：Set the PTZ function from Ch1 ~ Ch16, like (Figure 12).

Record Delay：The recording duration after the buzzer being triggered Video Loss. Option: 10 ~ 300 Sec; default value is 10 Sec.

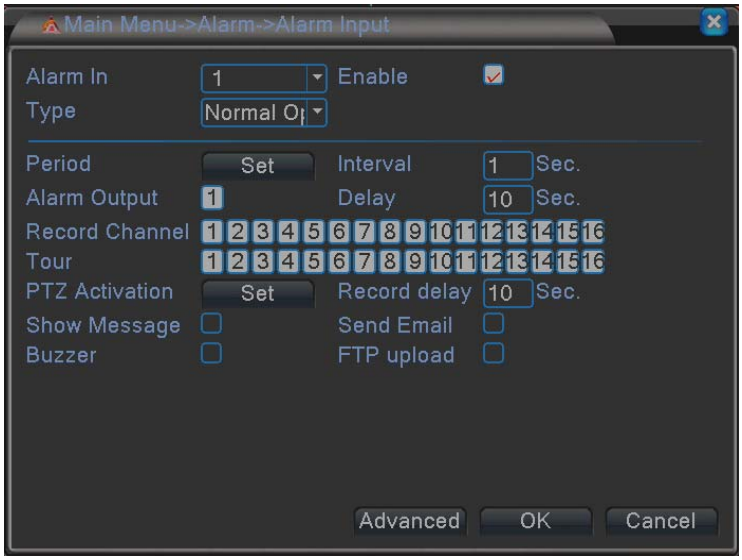
Show message：Setup for a prompt message show on the screen when Video Loss is triggered; default value is Off.

Send Email：Setup to send triggered Message to assigned email address when Video Loss is triggered; default value is Off.

Buzzer：Setup for buzzer beeping after Video Loss is triggered; default value is Off.

FTP Upload：Setup to upload photos to assigned FTP server when Video Loss is triggered.

5.2.4 Alarm Input



(Figure 15)

：Select (Figure 9) Alarm Input icon, get into (Figure 15) page.

Channel：setup ch1~ ch 16 for individual settings, also can setup for all channels.

Enable：Select to setup for the Alarm Input funtions; default value is Off.

Type: Setup Normal open or Normal close; default value is Off.

Period：setup the Alarm Input from Monday to Sunday, Any 4 days.

Alarm Output：According to the settings to trigger Alarm Input; default value is Off.

Interval：Time between each trigger, 1 ~600 Sec.

Alarm Output：According to the settings to trigger alarm output; default value is Off.

Delay: A time period to record after triggering Alarm Input, option: 10 ~ 300 Sec; default value is 10 Sec.

Record Channel：select which channel to record after Alarm Input is triggered; default value is Off.

Tour：Channel pops out after Alarm Input is triggered. If select all channels, it jumps from Ch 1 to ch16 in sequence; default value is Off.

PTZ Activation：Set the PTZ function from Ch1 ~ Ch16, like (Figure 12).

Record Delay：The recording duration after the buzzer being triggered Alarm Input. Option: 10 ~ 300 Sec; default value is 10 Sec.

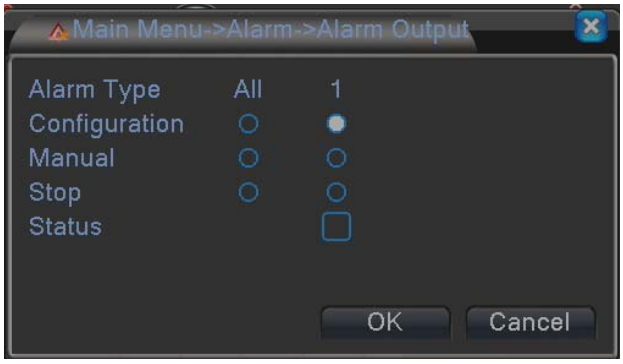
Show message：Setup for a prompt message show on the screen when Alarm Input is triggered; default value is Off.

Send Email：Setup to send triggered Message to assigned email address when Alarm Input is triggered; default value is Off.

Buzzer：Setup for buzzer beeping after Alarm Input is triggered; default value is Off.

FTP Upload：Setup to upload photos to assigned FTP server when Alarm Input is triggered.

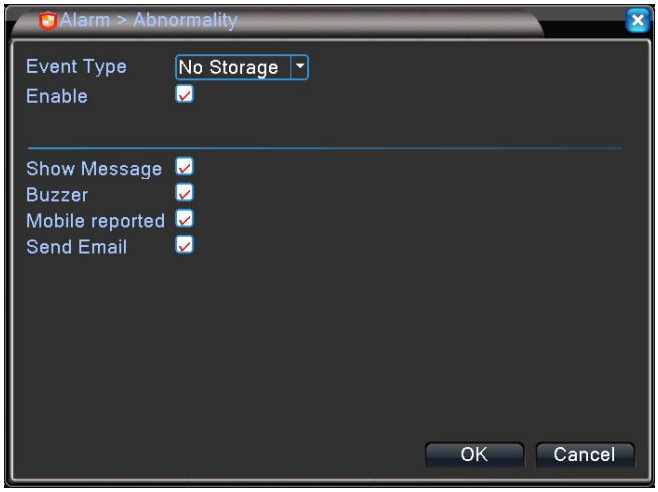
5.2.5 Alarm Output



(Figure 16)

：Select (Figure 9) Alarm Output icon, get into (Figure 16) page.

5.2.6 Abnormality



(Figure 17)

：Select (Figure 9) Abnormality icon, get into (Figure 17) page.

Event Type：Optional: No Disk, Disk Error, Disk No Space, Net Disconnection, IP conflict…etc.

Enable：Select to setup for the Abnormality function; default value is Off.

Show message：Setup for a prompt message show on the screen when Abnormality is triggered; default value is Off.

Buzzer：Setup for buzzer beeping after Abnormality is triggered; default value is Off.

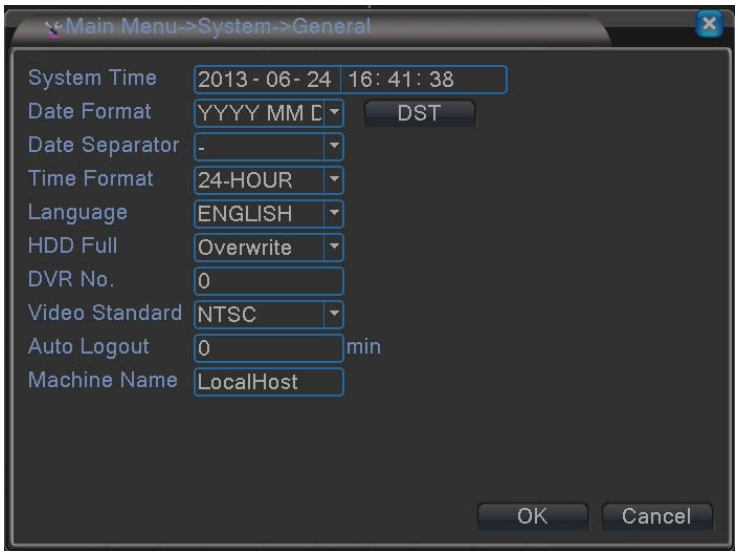
Send Email：Setup to send Abnormality Message to assigned email address default value is Off.

5.3 System

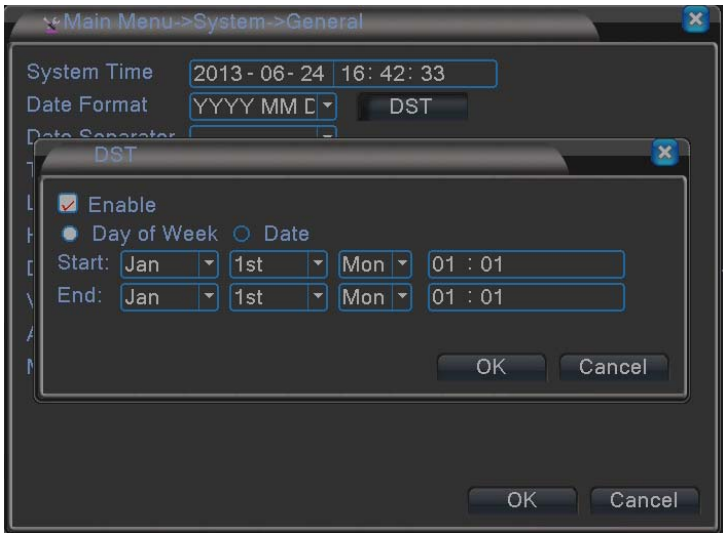
(Figure 20)

：Select (Figure 2) System icon, get into (Figure 20) page.

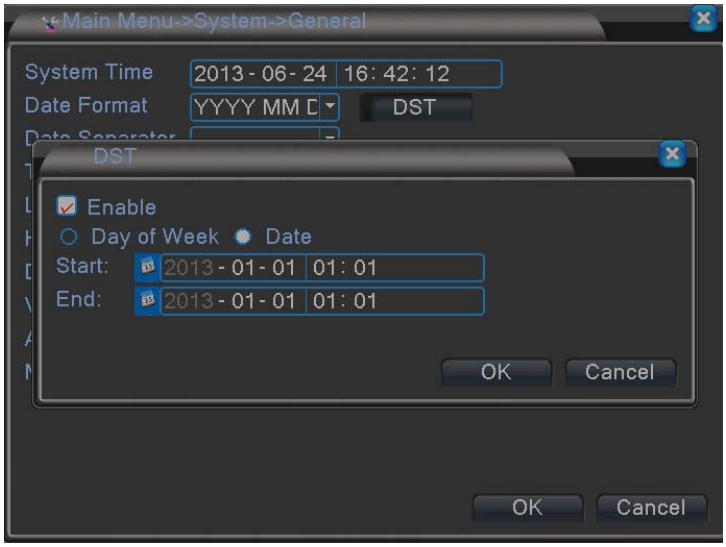
5.3.1 General



(Figure 21)



(Figure 22)



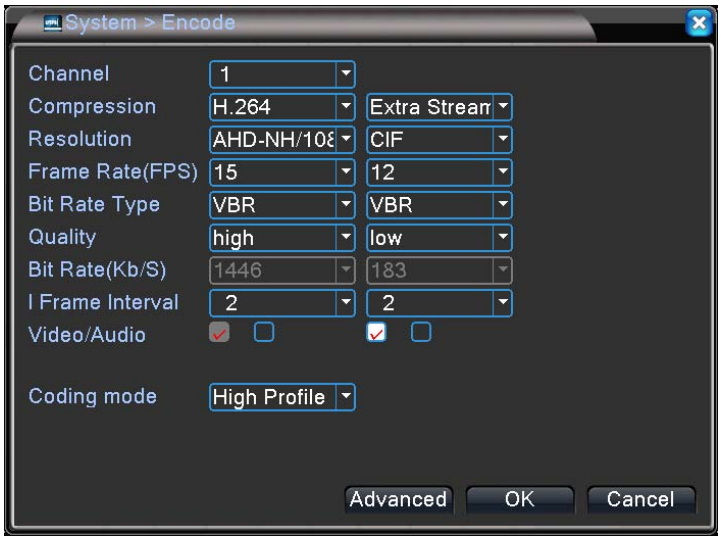
(Figure 23)

：Select (Figure 21) General icon, get into (Figure 21) page.

System Time：Setup current Year, date & time.
Date Format：Time format setup, set up of YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY, the default value is YYYY/MM/DD.
Date Separator：Options:**-./**, date presents by selected symbol; The default value is **-**.
Time Format：Set: 24-HOUR or 12-HOUR; The default value is 24-HOUR.
Language：There are 28 languages can select.
HDD Full：Setup Overwrite HDD or stop writing while HDD is full; The default value is Overwrite.
DVR No.：Set DVR No., Options: 0 ~998；The default value is 0.
Video Standard：Set Video Standard, NTSC or PAL.

Auto Logout：After a period of time without using, it requests to input Password to access Menu, options: 0 ~ 60 Min, 0 means no Password required; default value is 0.
Machine Name：Setup the Name of DVR, maximum 32 characters；default value is LocalHost.
Daylight Saving Time：Set Day of Week (Figure 22) & Date(Figure 23), it will add 1 hour for assigned time.

5.3.2 Encode



(Figure 24)

：Select (Figure 20) Encode icon, get into (Figure 24) page.

Channel：setup ch1~ ch16 for individual settings, also can setup for all channels.
Compression：H.264 & extra stream, H.264 for DVR recording model, extra stream for web or smart phone monitor mode.
Resolution：H.264 Resolution for device playback :
AHD-NH/1080N(960x1080)、AHD-M/720P(1280x720)、
AHD-L/960H(960x480)、D1(704x480),
Resolution for Extra stream : QCIF(176x120)、CIF(352x240).
Frame Rate(FPS)：AHDNH/1080N max NTSC:30 FPS,PAL 25 FPS
AHD-M/720P max NTSC:25 FPS,PAL 25 FPS
AHD-L/960H max NTSC:30 FPS,PAL 25 FPS
D1 max NTSC: 30 FPS, PAL: 25 FPS;
QCIF & CIF max NTSC/PAL: 30 FPS.
Bit Rate Type： Variable (VBR) & Constant (CBR) bit rate.
Quality：Several options, from low to highest; default value is high.
Bit Rate(Kb/s)： It depends on selected resolution and FPS; default value as shown in Figure 24.

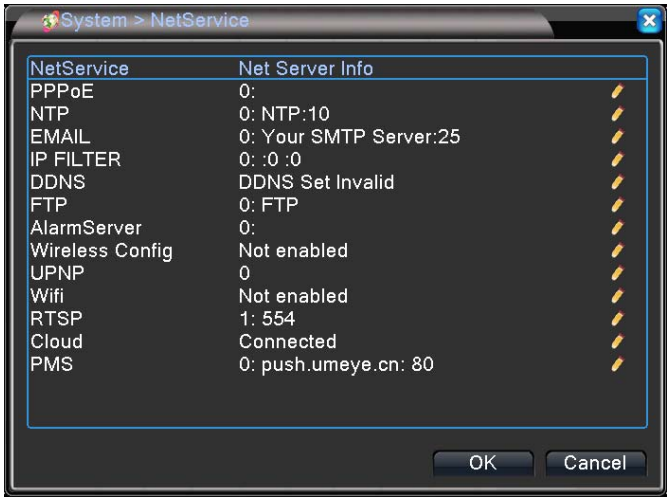
1 Frame Interval：Optional from 2 ~ 12.
Video/Audio：Select enable Video & Audio, default value is Video On/ Audio Off.

5.3.3 Network

(Figure 25)

：Select (Figure 20) Network icon, get into (Figure 25) page.
This figure is only available while connect to IP router.
Net Card：Wire Netcard.
DHCP Enable：Select to auto dispatch IP, unable select is need to key in IP manual.
IP Address：Input correspondence IP address; default value is 192.168.1.10.
Subnet Mask：Input correspondence Subnet Mask; default value is 255.255.255.0.
Gateway：Input correspondence gateway; default value is 192.168.1.1.
Primary DNS：Input primary DDNS server; default value is 192.168.1.1.
Secondary DNS：Input secondary DDNS server; default value is 8.8.8.8.
Media Port：Input Media Port; default value is 34567.
HTTP Port：Input HTTP Port; default value is 80.
Transfer Policy：Options: Adaptive、Quality Preferred、Fluency Preferred; default value is Quality Preferred.

5.3.4 NetService



(Figure 26)

：Select (Figure 20) NetService icon, get into (Figure 26) page.

PPPOE：After selected, click set, keyin account & Password of PPPOE and save to create an IP; default value is Off.

NTP：Network Time Protocol, setup to adjust current local time; default value is Off.

Email：After alarm is triggered, send messages to assigned email address; default value is Off.

IP Filter：Setup the Restricted Type: Blacklist & Whitelist; default value is Off.

DDNS：Set DDNS IP via IE browser, DDNS types: CN99、DynDns、Oray、NO-IP、MYQ-SEE; default value is Off.

FTP：Set FTP, send an alarm triggered message via FTP, default value is Off.

ARSP：Input ARSP server; default value is Off.

AlarmServer：Set Alarm Server; default value is Off.

Wireless Config：Set Wireless Config; default value is Off.

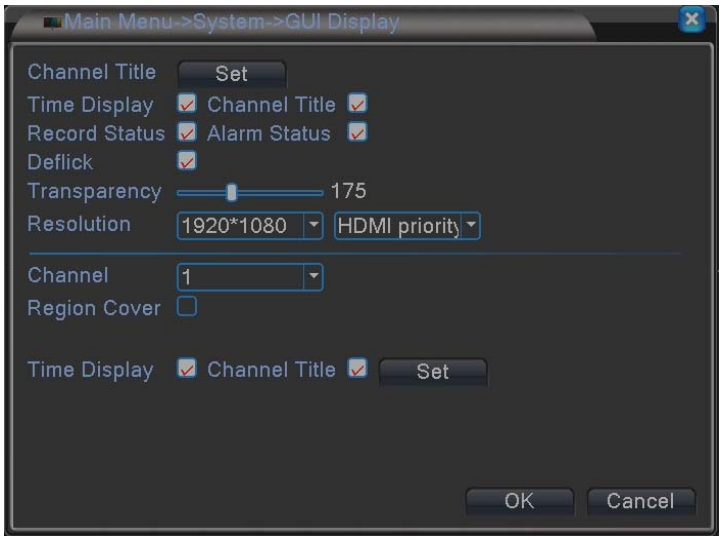
Mobile Monitor：Monitoring DVR via mobile phone, default PORT is 34599; default value is On.

UPNP：Set UPNP; default value is Off.

WiFi：Connect USB dongle to receive WiFi signal; default value is Off.

RTSP：Input RTSP_PORT; default value is 554.

5.3.5 GUI Display



(Figure 27)

(Figure 28)

：Select (Figure 20) GUI Display Icon, get into (Figure 27) page.

Channel Title：Setup the title name for 16 channels, as (Figure 28).

Time Display：Select to display time; default value is On.

Channel Title：Select to display channel titles; default value is On.

Record Status：Select to display record status; default value is On.

Alarm Status：Select to display alarm status；default value is On.

Deflick：Prevent images flicking; default value is On.

Transparency：Adjust the transparency of dialogue GUI.

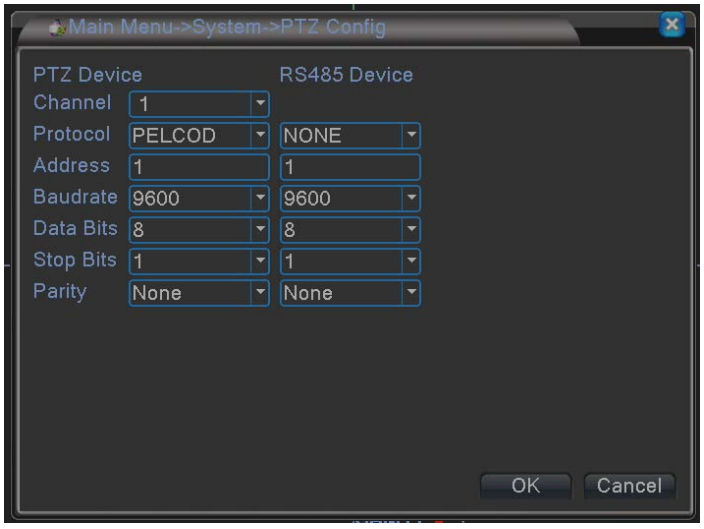
Resolution：Adjust the resolution for VGA & HD OUT, default value is VGA, 1920*1080.

Channel：Select ch1 ~ ch16.

Region Cover：Choose which channel to display after selected, Ch 1 to 4, and assign positions.

Time display & Channel Title：Adjust the positions of time display and channel title.

5.3.6 PTZ Config



(Figure 29)

：Select (Figure 20) PTZ Config icon, get into (Figure 29) page.

Channel：Select Ch 1 ~ 16.

Protocol：22 options can select; default value is PELCOD.

Address：PTZ address Number; default value is 1.

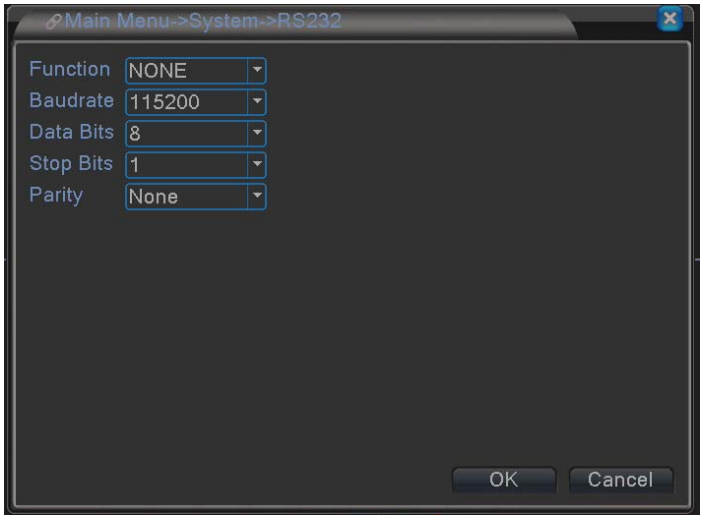
Baud rate：8 options can select; default value is 9600.

Data Bits : 4 options can select; default value is 8.

Stop Bits：2 options can select; default value is 1.

Parity： 4 options can select; default value is None.

5.3.7 RS232



(Figure 30)

：Select (Figure 20) RS232 icon, get into (Figure 30) page.

Function：5 options can select; default value is NONE.

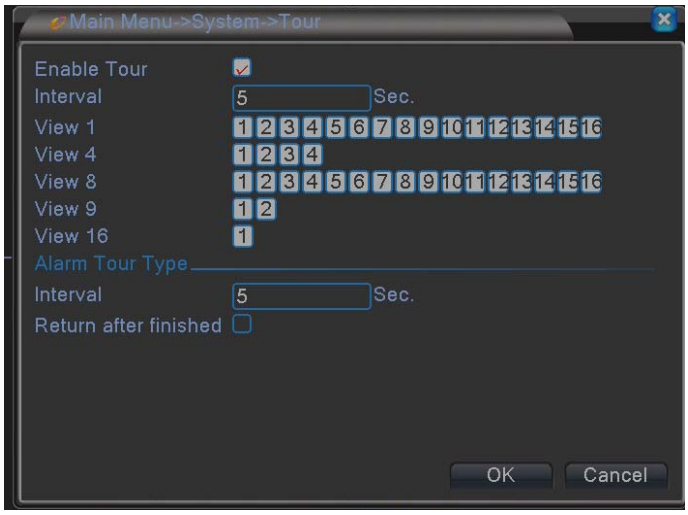
Baud rate：8 options can select; default value is 115200.

Date Bits：4 options can select; default value is 8.

Stop Bits：2 options can select; default value is 1.

Parity：4 options can select; default value is None.

5.3.8 Tour



(Figure 31)

：Select (Figure 20) Tour icon, get into (Figure 30) page.

Enable Tour：Enable the auto switching tour function; default value is Off.

Interval：Set the switching tour time, min 5 Sec, max 120 Sec; default value is 5 Sec.

View 1：Set single screen for each switch tour; default value is All open.

View 4：Set 4 screens for each switch tour; default value is All open.

View 8：Set 8 screens for each switch tour; default value is All open.

View 9：Set 9 screens for each switch tour; default value is All open.

View 16：Set 16 screens for each switch tour; default value is All open.

Alarm Tour Type：

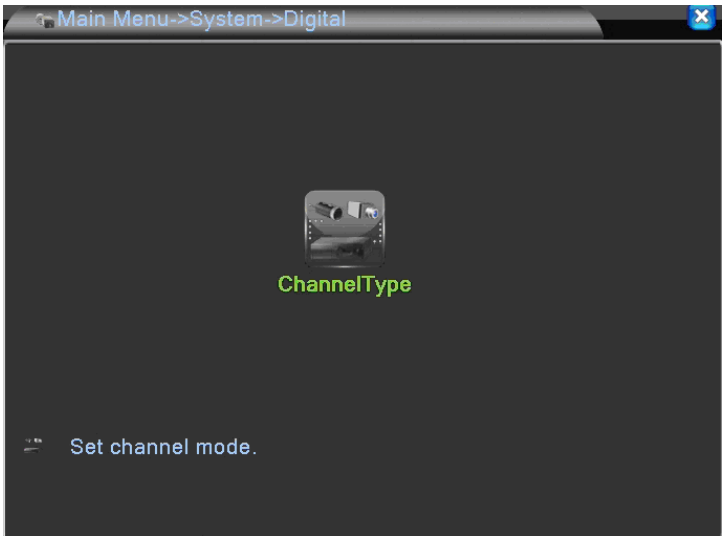
Interval：Set the switching time when alarm is triggered, min 5 Sec, max 120 Sec; default value is 5 Sec.

Return after finished：Return to Live image after alarm end.

5.3.9 Digital

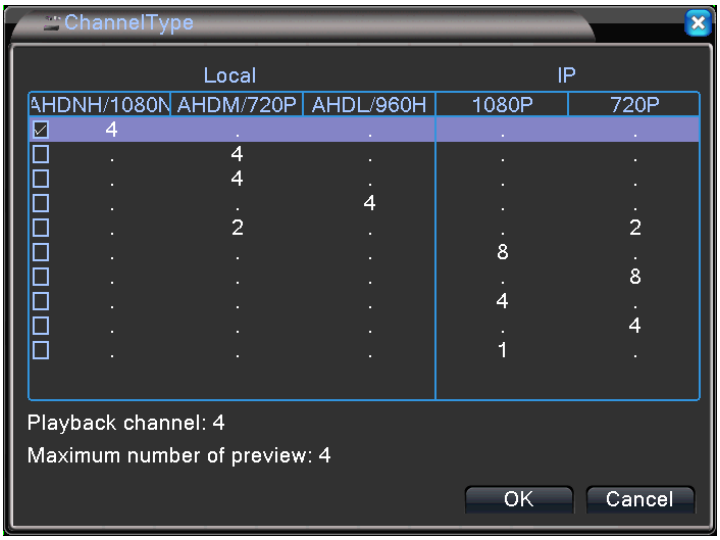
- Main Menu/ System/Digital
-

: Set channel mode. User can set the channel model here.

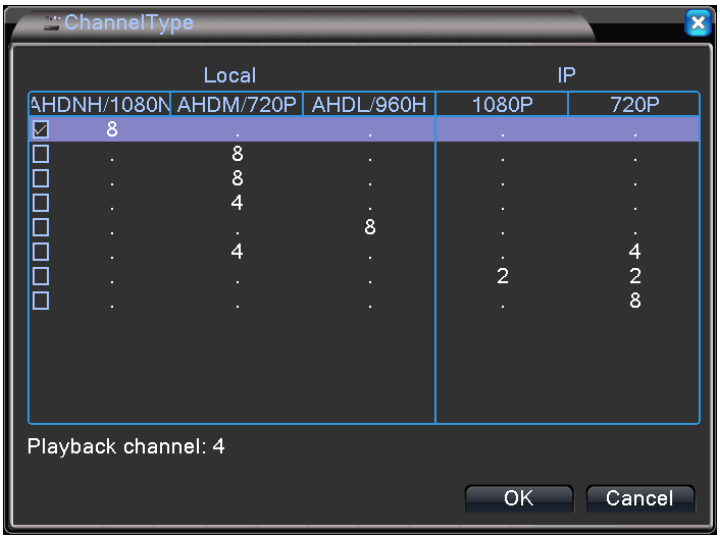


a). Channel Type：When setting resolution of cameras, ANALOG means analog cameras, NETWORK means IP cameras. Choose "Channel Type", you will have the following different setting views: 4CH models; 8CH models; 16CH models.

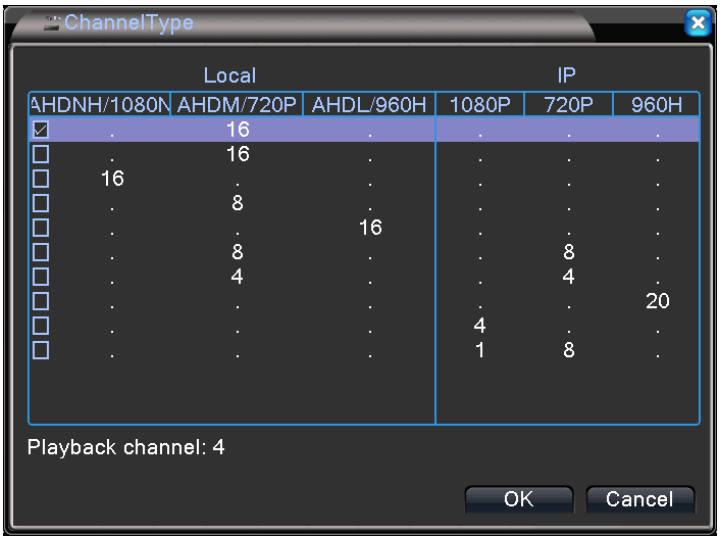
1) 4CH models



2) 8CH models

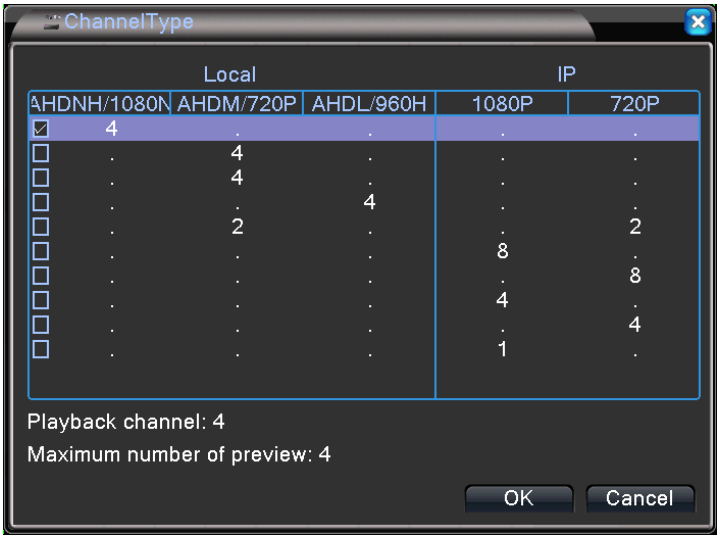


3) 16CH models



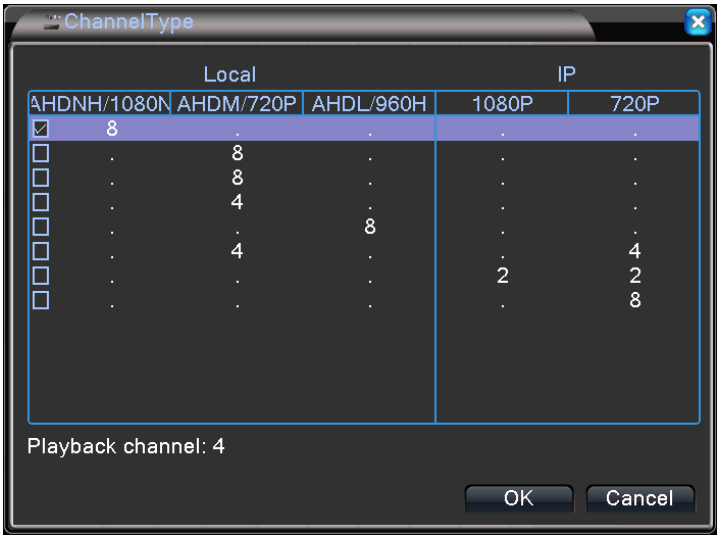
5.3.9.1 Normal recording: Only analog cameras need to be recorded.

■ 4CH



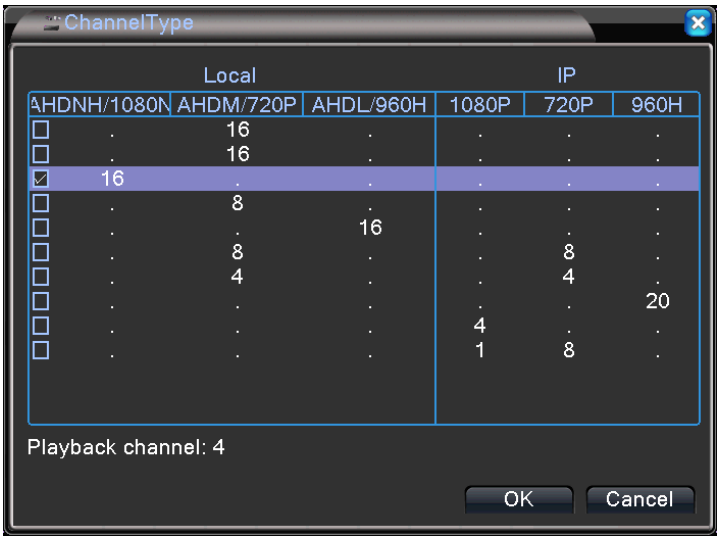
In the 4CH ChannelType, choose different modes to record videos of different resolutions. For example, choose AHDNH/1080N_4CH mode to record 4 channel AHDNH/1080N videos.
And maximum tunnel of replay supported is shown below. After clicking OK, the DVR will request to reboot the system.

■ 8CH



In the 8CH ChannelType, choose different modes to record videos of different resolutions. For example, choose AHDNH/1080N_8CH mode to record 8 channel AHDNH/1080N video.
And maximum tunnel of replay supported is shown below. After clicking OK, the DVR will request to reboot the system.

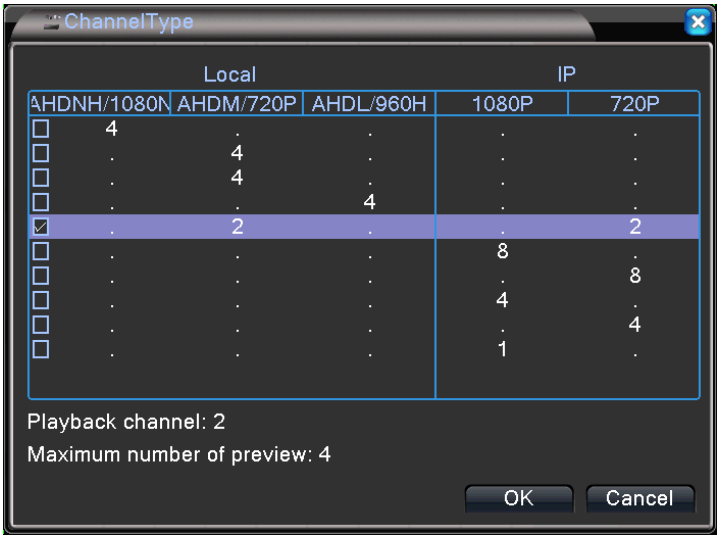
■ 16CH



AHDNH/1080N_16CH mode to record 16 channel AHDM videos.And maximum tunnel of replay supported is shown below. After clicking OK, the DVR will request to reboot the system.

5.3.9.2 Hybrid recording: Both analog cameras and IP cameras need to be recorded.

■ 4CH



In the 4CH ChannelType, choose different analog/IP combination (modes) to record videos of different resolutions. For example, choose Analog AHDM_2CH/Network 720P_2CH mode to record 2 channel D1, 1CH 1080P and 1CH 720P videos. And maximum tunnel of replay supported is shown below.

After clicking OK, the DVR will request to reboot the system.

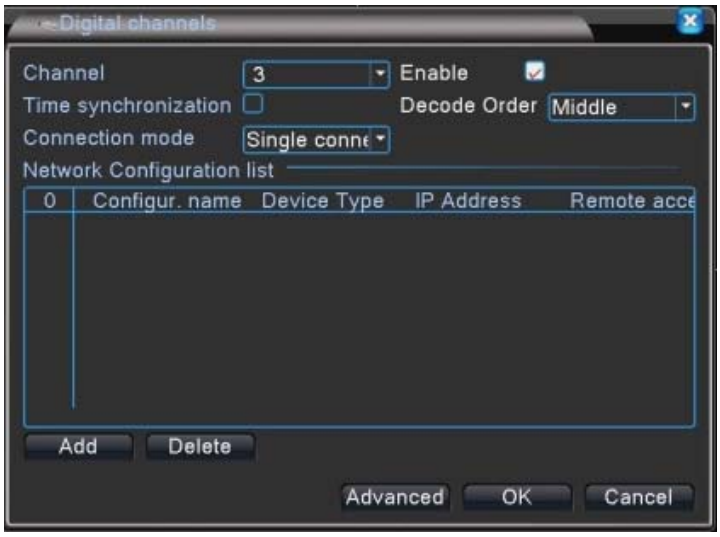
- Main Menu/ System/Digital
-

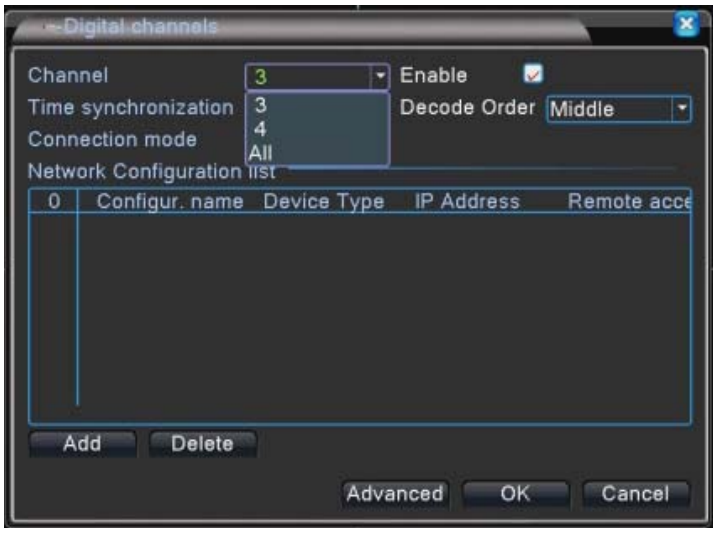
: After rebooting, there will be three settings available: Digital Channels, Channel status and ChannelType, because Network ChannelType recording is added.

◆ Digital channels

- Main Menu/ System/Digital/ Digital channels
-

: You can set the target IP cameras or DVRs that you want to record.





a). Channel: Set the NETWORK channels one by one or set all channels at once to have the same settings.
b). Enable: Check it to enable the setting function. Default is unchecked.
c). Time synchronization: Check it to synchronize connected IP cameras/DVRs with the system time on DVR.
d). Decode Order: Choose modes of network transmission, Real time first/Middle/ fluency first. Default: Middle.
e). Connection Mode: Single Connection/Multiple Connection. Multiple Connections can connect several IP Cams/DVRs to a single channel and switch between them. Default : Single Connection.
f). Add: Search available IP Cam/DVR for connection.
g). Delete: Delete the selected IP Cam/DVR from the list.

◆ Remote access configuration

■ Main Menu/ System/Digital/ Digital channels/ Remote access configuration

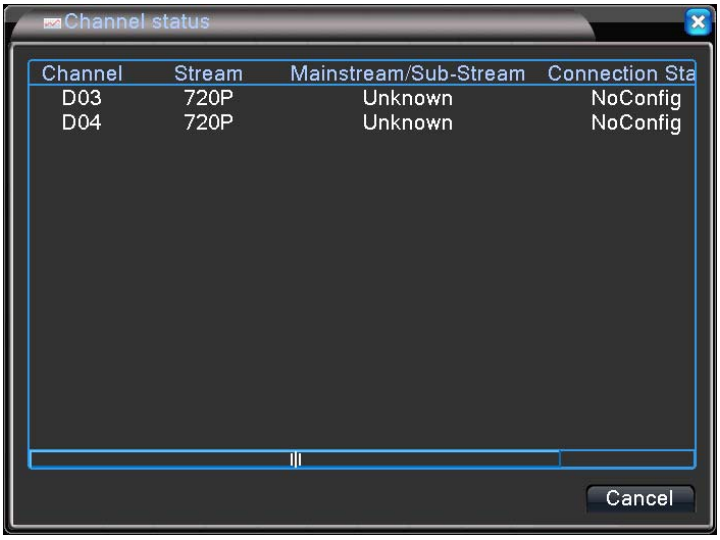
■ Add : Choose "Add" to do the Remote access configuration. Choose Search to find all available IP Cam/DVR and select which one to connect.

a). Configure name: Edit device name. Default: chConfig01.
b). Device Type: Choose IPC、DVR or HVR. Default: IPC.
c). Remote access: Set remote access. Value: 0~65535.
d). Protocol: Use NETIP or ONVIF. Default: NETIP.
e). Stream: Main stream or Sub stream. Default: Main stream.
f). Device address: Show the IP address of the selected IP Cam/DVR.
g). Port: Display the port of the selected IP Cam/DVR.
h). Username: Input the Username of the IP Cam/DVR. Default: admin.
i). Password: Input the password of the IP Cam/DVR. Default: (BLANK).

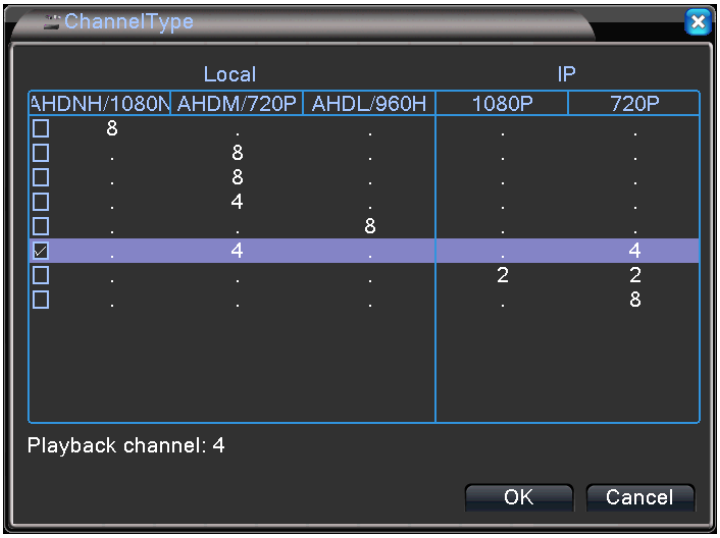
◆ Channel status

■ Main Menu/ System/Digital / Channel status

■
Channel status：display the connection status of each NETWORK channel.



■ 8CH



In the 8CH ChannelType, choose different analog/IP combination (modes) to record videos of different resolutions. For example, choose Analog AHDM_4CH/Network 720P_4CH. And maximum tunnel of replay supported is shown below. After clicking OK, the DVR will request to reboot the system.

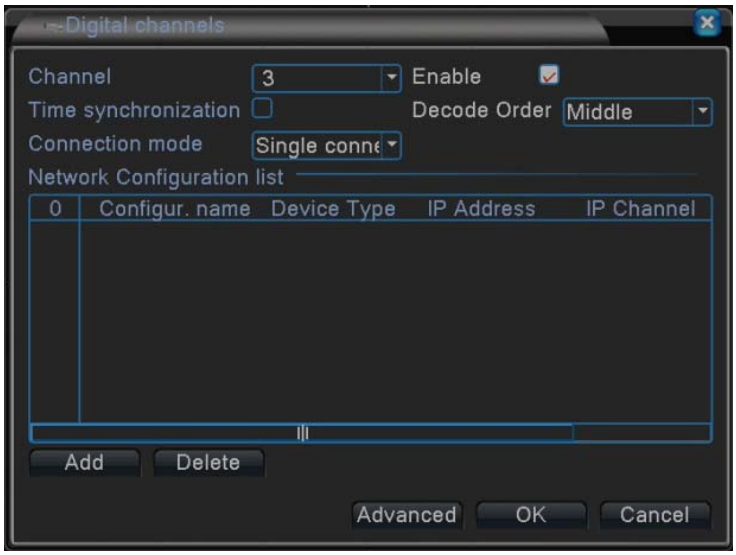
- Main Menu/ System/Digital
-

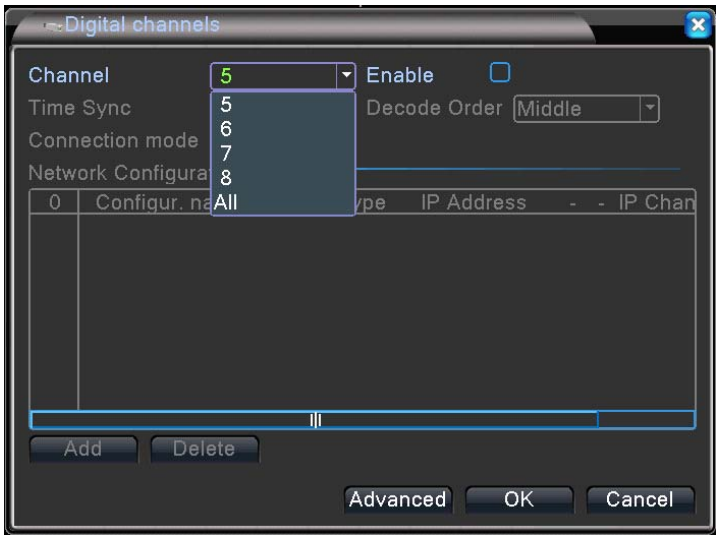
: After rebooting, there will be three settings available: Digital Channels, Channel status and Channel Type, because Network Channel Type is added.

◆ Digital channels

- Main Menu/ System/Digital/Digital channels
-

: You can set the target IP cameras or DVRs that you want to record.

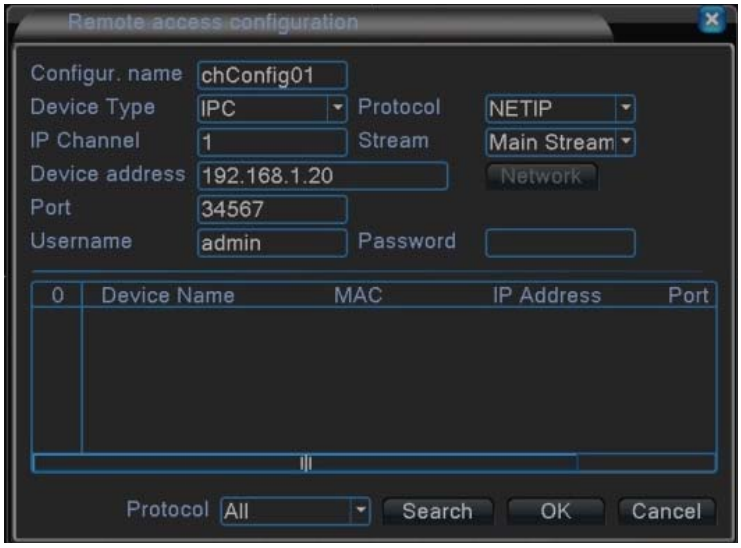




a). Channel: Set the NETWORK channels one by one or set all channels at once to have the same settings.
b). Enable: Check it to enable the setting function. Default is unchecked.
c). Time synchronization: Check it to synchronize connected IP cameras/DVRs with the system time on DVR.
d). Decode Order: Choose modes of network transmission, Real time first/Middle/ fluency first. Default: Middle.
e). Connection Mode: Single Connection/Multiple Connection. Multiple Connections can connect several IP Cams/DVRs to a single channel and switch between them. Default : Single Connection.
f). Add: Search available IP Cam/DVR for connection.
g). Delete: Delete the selected IP Cam/DVR from the list.

◆ Remote access configuration

- Main Menu/ System/Digital/ Digital channels/ Remote access configuration
- Add : Choose "Add" to do the Remote access configuration. Choose Search to find all available IP Cam/DVR and select which one to connect.

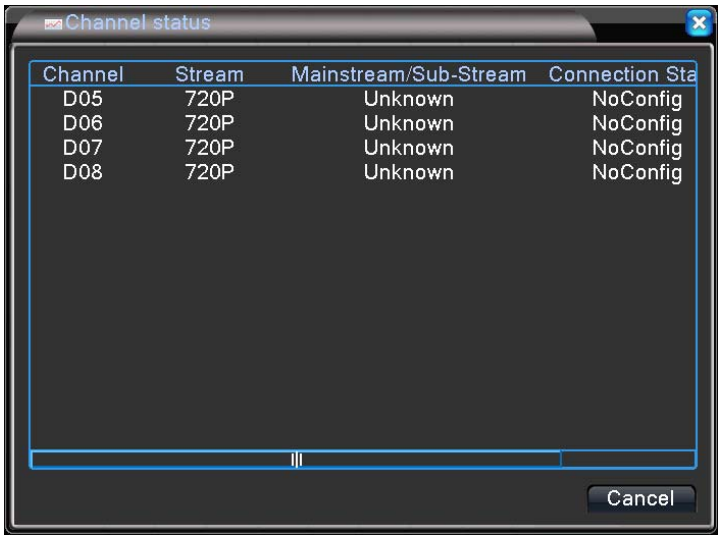


a). Configure name: Edit device name. Default: chConfig01.
b). Device Type: Choose IPC、DVR or HVR. Default: IPC.
c). Remote access: Set remote access. Value: 0~65535.
d). Protocol: Use NETIP or ONVIF. Default: NETIP.
e). Stream: Main stream or Sub stream. Default: Main stream.
f). Device address: Display the IP address of the selected IP Cam/DVR.
g). Port: Display the port of the selected IP Cam/DVR.
h). Username: Input the Username of the IP Cam/DVR. Default: admin.
i). Password: Input the password of the IP Cam/DVR. Default: (BLANK).

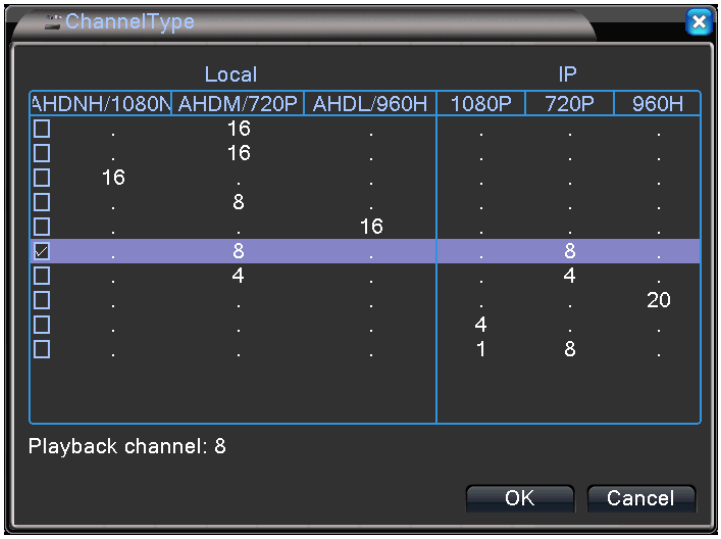
◆ Channel status

- Main Menu/ System/Digital / Channel status

- Channel status：display the connection status of each NETWORK channel.



■ 16CH



In the 16CH ChannelType, choose different analog/IP combination (modes) to record videos of different resolutions.For example, choose Analog AHDM_8CH/Network 720P_8CH. And maximum tunnel of replay supported is shown below. After clicking OK, the DVR will request to reboot the system.

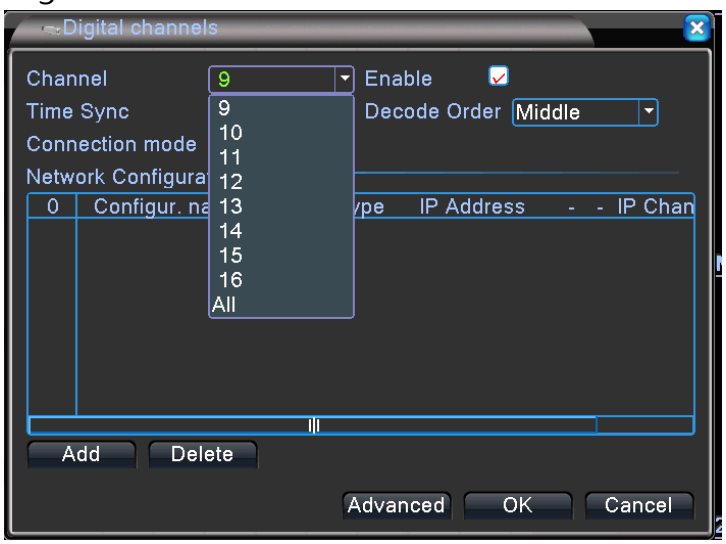
- Main Menu/ System/Digital
-

: After rebooting, there will be three settings available: Digital Channels, Channel status and Channel Type, because Network Channel Type is added.

◆ Digital channels

- Main Menu/ System/Digital/Digital channels
-

: You can set the target IP cameras or DVRs that you want to record.



a). Channel: Set the NETWORK channels one by one or set all channel at once to have the same settings.

b). Enable: Check it to enable the setting function. Default is unchecked.

c). Time synchronization: Check it to synchronize connected IP cameras/DVRs with the system time on DVR.

d). Decode Order: Choose modes of network transmission, Real time first/Middle/ fluency first. Default: Middle.

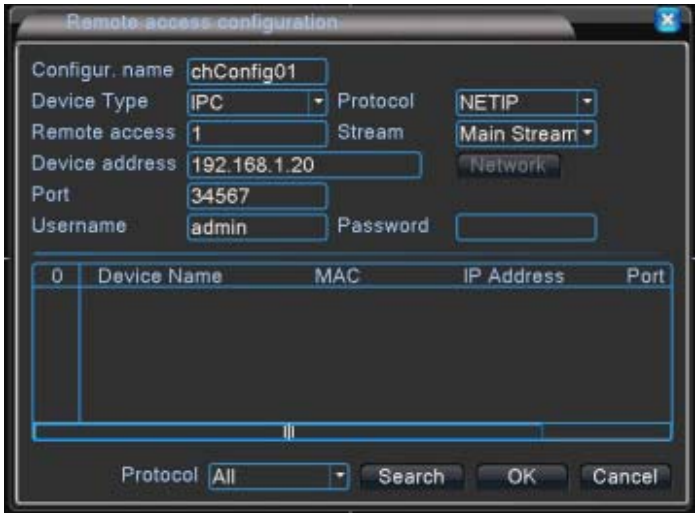
e). Add: Search available IP Cam/DVR for connection.

f). Delete: Delete the selected IP Cam/DVR from the list.

- Main Menu/ System/Digital/ Digital channels/ Remote access configuration

- Add : Choose "Add" to do the Remote access configuration. Choose Search to find all available IP Cam/DVR and select which one to connect.

◆ Remote access configuration



a). Configure name: Edit device name. Default: chConfig01.

b). Device Type: Choose IPC、DVR or HVR. Default: IPC.

c). Remote access: Set remote access. Value: 0~65535.

d). Protocol: Use NETIP or ONVIF. Default: NETIP.

e). Stream: Main stream or Sub stream. Default: Main stream.

f). Device address: Display the IP address of the selected IP Cam/DVR.

g). Port: Display the port of the selected IP Cam/DVR.

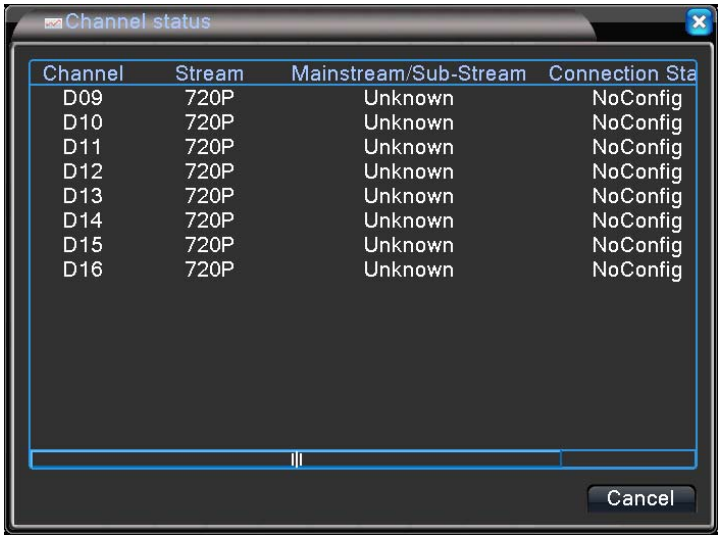
h). Username: Input the Username of the IP Cam/DVR. Default: admin.

Password: Input the password of the IP Cam/DVR. Default: (BLANK).

◆ Channel status

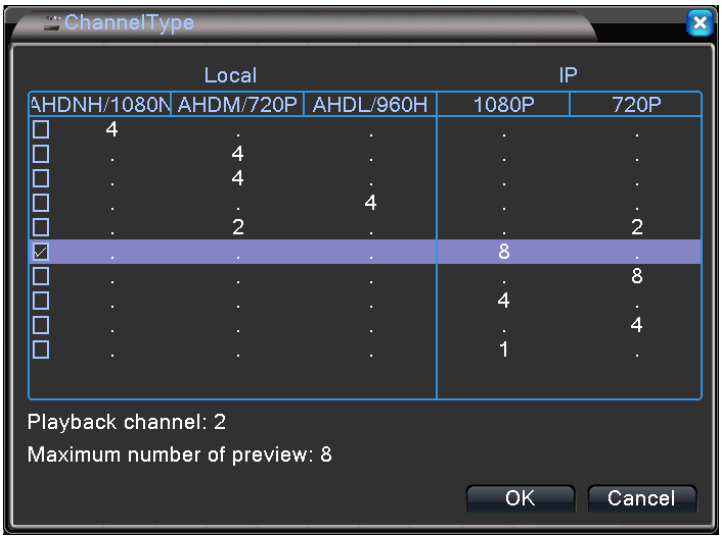
■ Main Menu/ System/Digital / Channel status

■
Channel status：Display the connection status of each NETWORK channel.



5.3.10.1 NETWORK recording: Only IP cameras need to be recorded

■ 4CH



In the 4CH ChannelType, choose different combination (modes) to record IP cameras of different resolutions. For example, choose 1080P_8CH mode to record 8 channel 1080P videos.And maximum tunnel of replay supported is shown below. After clicking OK, the DVR will request to reboot the system.

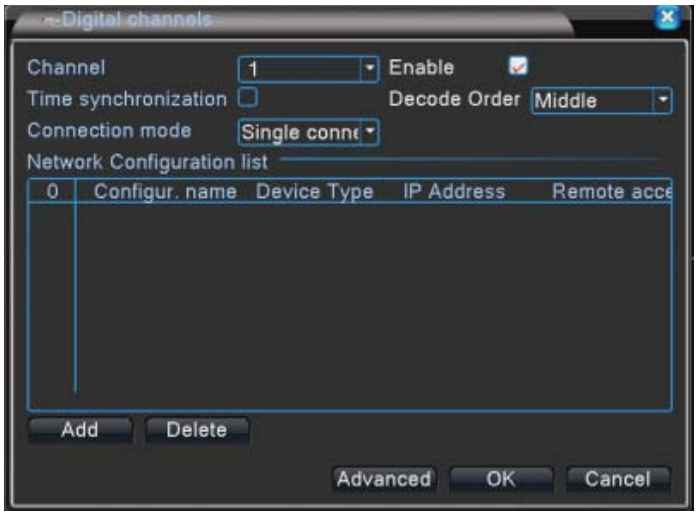
- Main Menu/ System/Digital
-

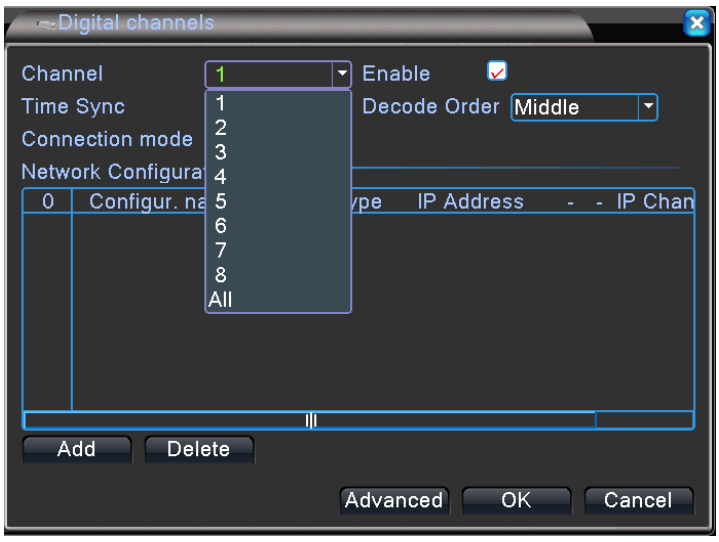
: After rebooting, there will be three settings available: Digital Channels, Channel status and Channel Type, because Network Channel Type is added.

◆ Digital channels

- Main Menu/ System/Digital/Digital channels
-

: You can set the target IP cameras or DVRs that you want to record.



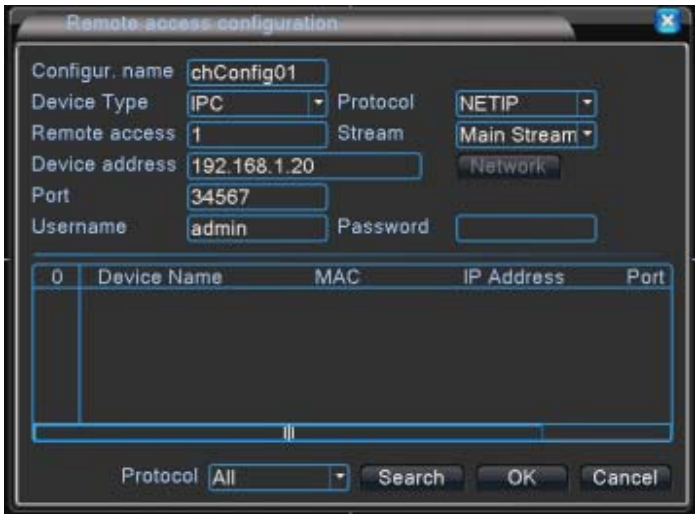


a). Channel: Set the NETWORK channels one by one or set all channel at once to have the same settings.
b). Enable: Check it to enable the setting function. Default is unchecked.
c). Time synchronization: Check it to synchronize connected IP cameras/DVRs with the system time on DVR.
d). Decode Order: Choose modes of network transmission, Real time first/Middle/ fluency first. Default: Middle.
e). Connection Mode: Choose Single Connection/Multiple Connection mode. Multiple Connection can connect several IP Cams/DVRs to a single channel and switch between them. Default : Single Connection.
f). Add: Search available IP Cam/DVR for connection.
g). Delete: Delete the selected IP Cam/DVR from the list.

◆ Remote access configuration

■ Main Menu/ System/Digital/ Digital channels/ Remote access configuration

■ Add : Choose "Add" to do the Remote access configuration. Choose Search to find all available IP Cam/DVR and select which one to connect.



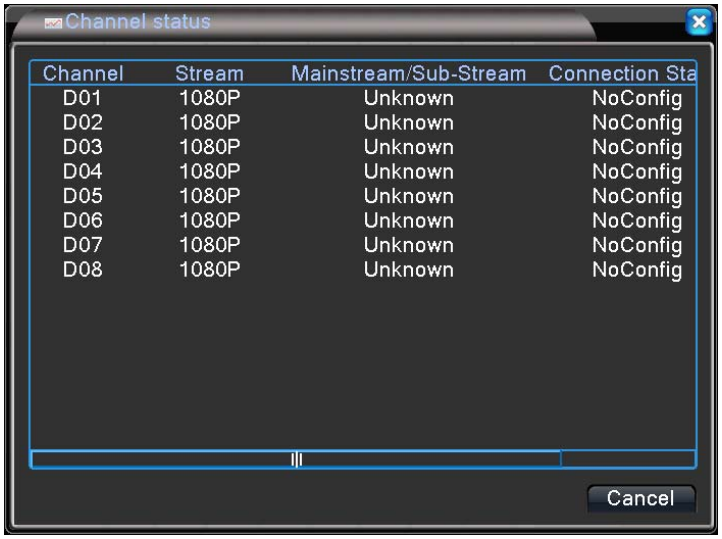
a). Configure name: Edit device name. Default: chConfig01.
b). Device Type: Choose IPC、DVR or HVR. Default: IPC.
c). Remote access: Set remote access. Value: 0~65535.
d). Protocol: Use NETIP or ONVIF. Default: NETIP.
e). Stream: Main stream or Sub stream. Default: Main stream.

f). Device address: Display the IP address of the selected IP Cam/DVR.
g). Port: Display the port of the selected IP Cam/DVR.
h). Username: Input the Username of the IP Cam/DVR. Default: admin.
i). Password: Input the password of the IP Cam/DVR. Default: (BLANK).

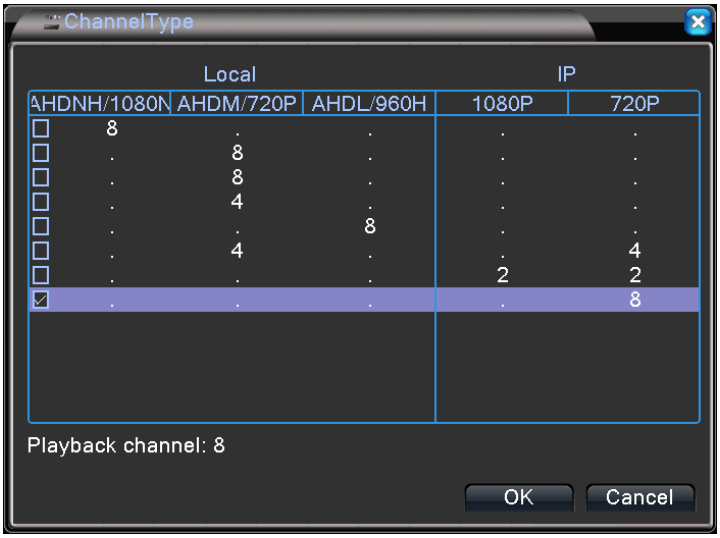
◆ Channel status

■ Main Menu/ System/Digital / Channel status

■
Channel status：Display the connection status of each NETWORK channel.



■ 8CH

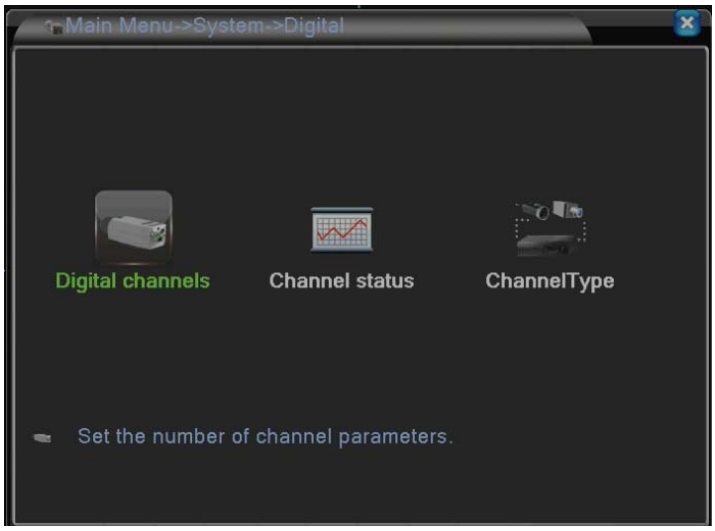


In the 8CH ChannelType, choose different combination (modes) to record IP cameras of different resolutions. For example, choose

720P_8CH mode to record 8 channel 720P videos. And maximum tunnel of replay supported is shown below. After clicking OK, the DVR will request you to reboot the system.

- Main Menu/ System/Digital
-

: After rebooting, there will be three settings available: Digital Channels, Channel status and Channel Type, because Network Channel Type is added.

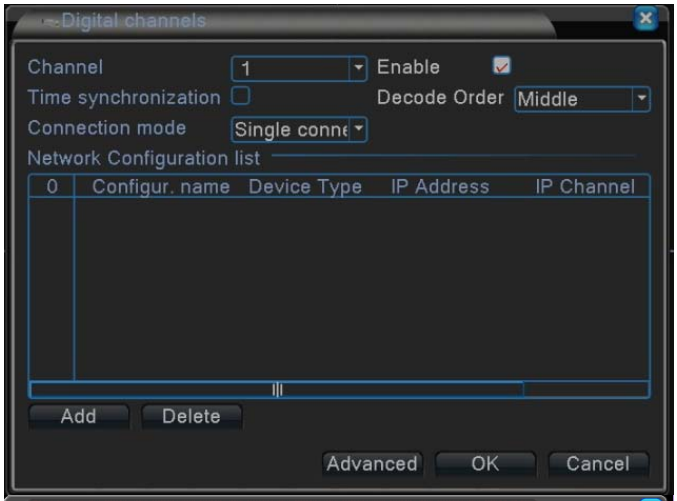


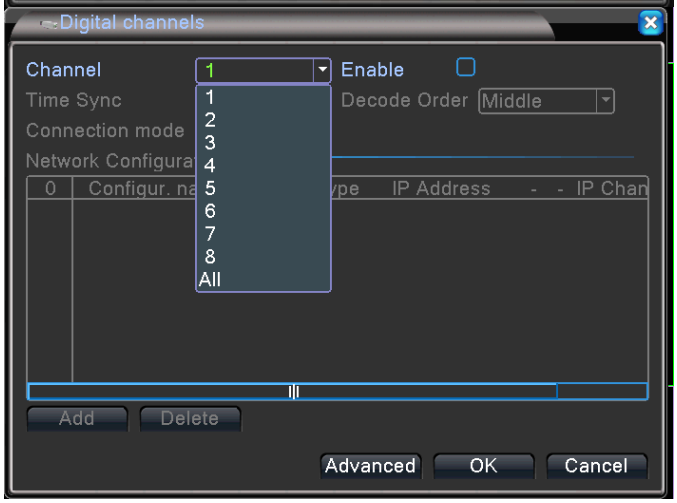
◆ Digital channels

■ Main Menu/ System/Digital/Digital channels

■

: You can set the target IP cameras or DVRs that you want to record.



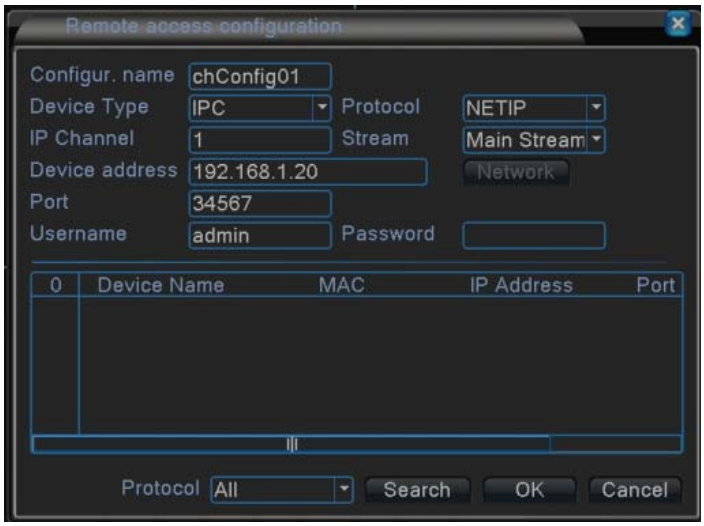


a). Channel: Set the NETWORK channels one by one or set all channels at once to have the same settings.
b). Enable: Check it to enable the setting function. Default is unchecked.
c). Time synchronization: Check it to synchronize connected IP cameras/DVRs with the system time on DVR.
d). Decode Order: Choose modes of network transmission, time first/Middle/ fluency first. Default: Middle.
e). Connection Mode: Choose Single Connection/Multiple Connection mode. Multiple Connection can connect several IP Cams/DVRs to a single channel and switch between them. Default : Single Connection.
f). Add: Search available IP Cam/DVR for connection.
g). Delete: Delete the selected IP Cam/DVR from the list.

◆ Remote access configuration

■ Main Menu/ System/Digital/ Digital channels/ Remote access configuration

■ Add : Choose "Add" to do the Remote access configuration. Choose Search to find all available IP Cam/DVR and select which one to connect.



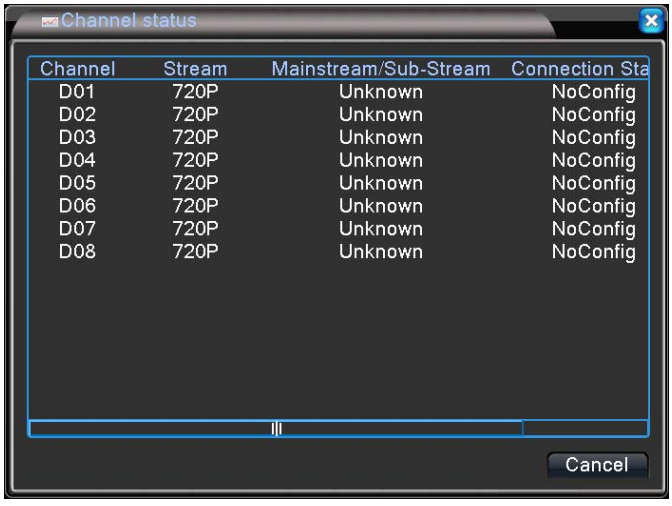
a). Configure name: Edit device name. Default: chConfig01.
b). Device Type: Choose IPC、DVR or HVR. Default: IPC.
c). Remote access: Set remote access. Value: 0~65535.
d). Protocol: Use NETIP or ONVIF. Default: NETIP.
e). Stream: Main stream or Sub stream. Default: Main stream.
f). Device address: Display the IP address of the selected IP Cam/DVR.
g). Port: Display the port of the selected IP Cam/DVR.
h). Username: Input the Username of the IP Cam/DVR. Default: admin.

Password: Input the password of the IP Cam/DVR. Default: (BLANK).

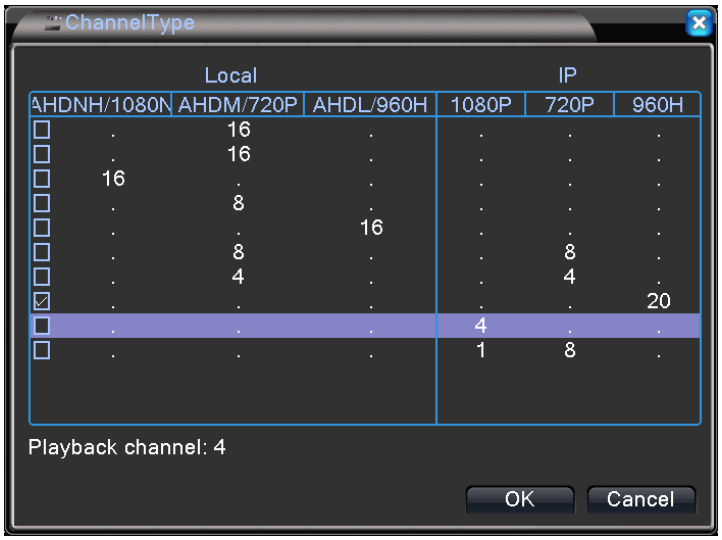
◆ Channel status

■ Main Menu/ System/Digital / Channel status

■ Channel status : Display the connection status of each NETWORK channel.



■ 16CH

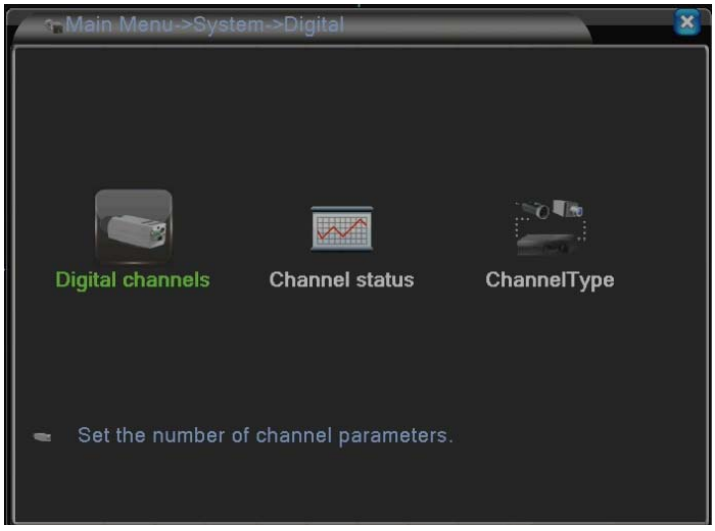


In the 8CH ChannelType, choose different combination (modes) to record IP cameras of different resolutions. For example, choose 720P_8CH mode to record 8 channel 720P videos. And maximum tunnel of replay supported is shown below. After clicking OK, the DVR will request you to reboot the system.

■ Main Menu/ System/Digital

■

: After rebooting, there will be three settings available: Digital Channels, Channel status and Channel Type, because Network Channel Type is added.

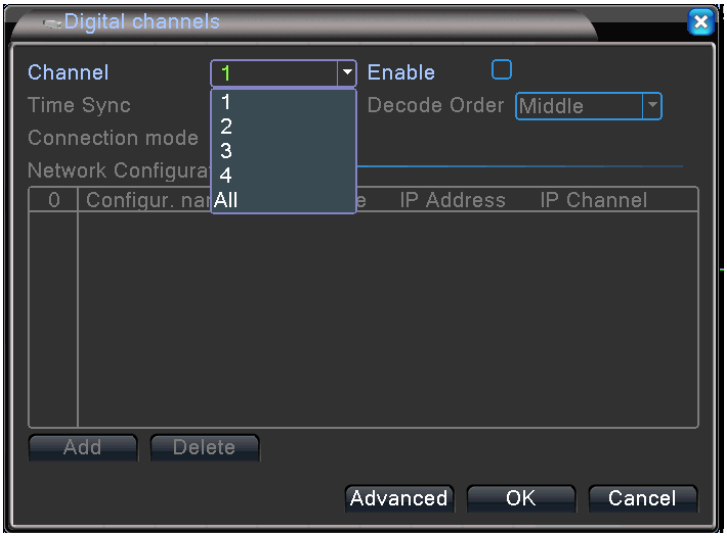


◆ Digital channels

■ Main Menu/ System/Digital/Digital channels

■

: You can set the target IP cameras or DVRs that you want to record.

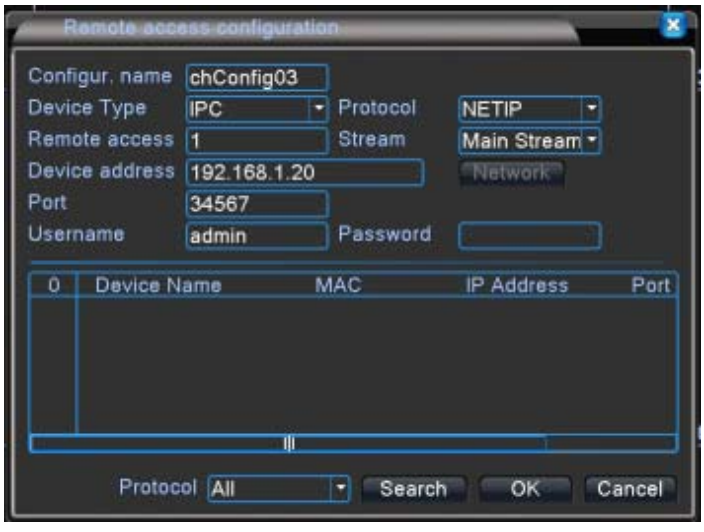


a). Channel: Set the NETWORK channels one by one or set all channels at once to have the same settings.
b). Enable: Check it to enable the setting function. Default is unchecked.
c). Time synchronization: Check it to synchronize connected IP cameras/DVRs with the system time on DVR.
d). Decode Order: Choose modes of network transmission, time first/Middle/ fluency first. Default: Middle.
e). Connection Mode: Choose Single Connection/Multiple Connection mode. Multiple Connection can connect several IP Cams/DVRs to a single channel and switch between them. Default : Single Connection.
f). Add: Search available IP Cam/DVR for connection.
g). Delete: Delete the selected IP Cam/DVR from the list.

◆ Remote access configuration

■ Main Menu/ System/Digital/ Digital channels/ Remote access configuration

■ Add : Choose "Add" to do the Remote access configuration. Choose Search to find all available IP Cam/DVR and select which one to connect.



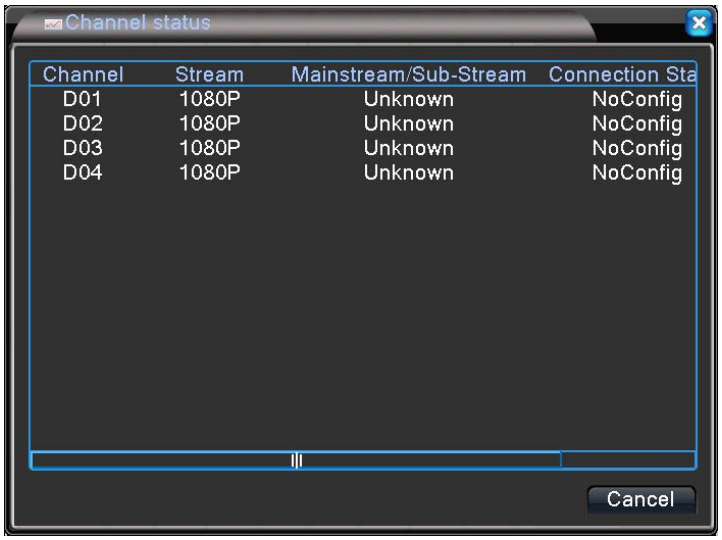
a). Configure name: Edit device name. Default: chConfig01.
b). Device Type: Choose IPC、DVR or HVR. Default: IPC.
c). Remote access: Set remote access. Value: 0~65535.
d). Protocol: Use NETIP or ONVIF. Default: NETIP.
e). Stream: Main stream or Sub stream. Default: Main stream.
f). Device address: Display the IP address of the selected IP Cam/DVR.
g). Port: Display the port of the selected IP Cam/DVR.
h). Username: Input the Username of the IP Cam/DVR. Default: admin.
i). Password: Input the password of the IP Cam/DVR. Default: (BLANK).

◆ Channel status

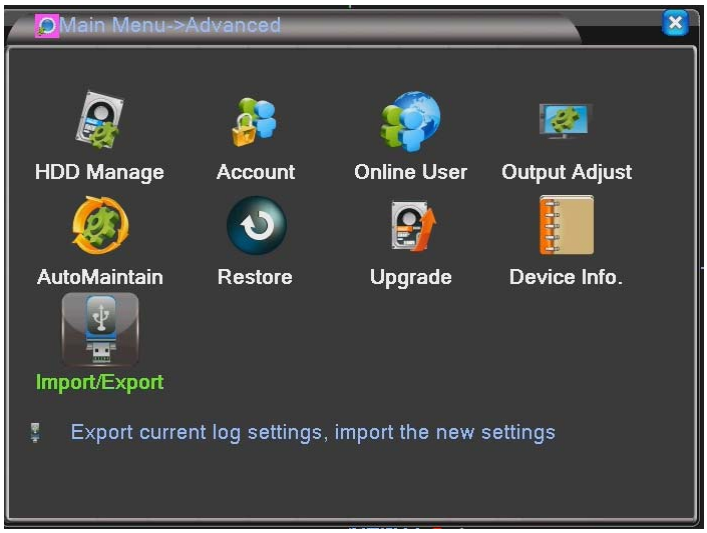
■ Main Menu/ System/Digital / Channel status

■

：Display the connection status of each NETWORK channel.



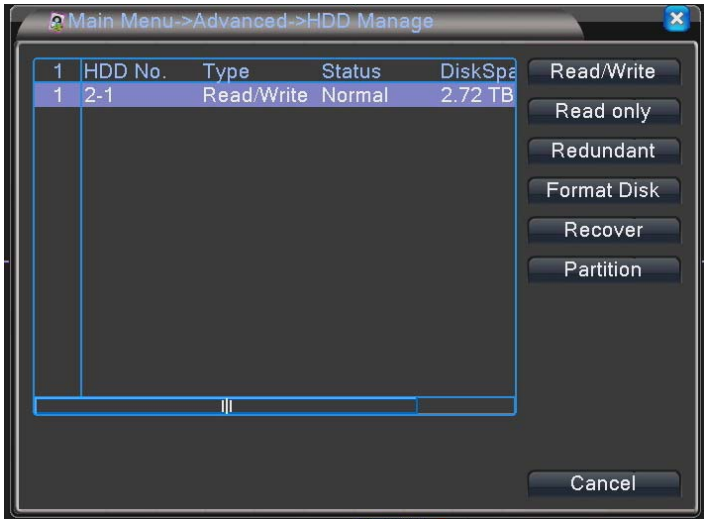
5.4 Advanced



(Figure 35)

：Select (Figure 2) Advanced icon, get into (Figure 35) page.

5.4.1 HDD Manage

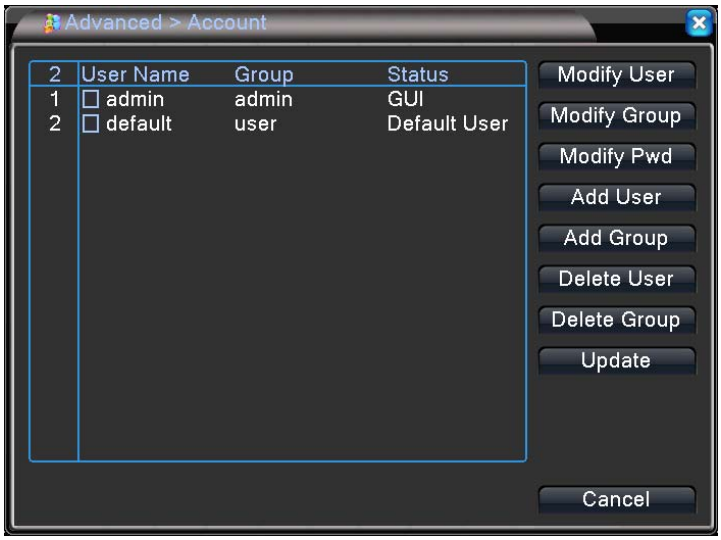


(Figure 36)

：Select (Figure 35) HDD Manage icon, get into (Figure 36) page.

Read/Write：Set HDD enable to Read & Write.
Read Only：Set HDD enable to read only.
Redundant：only when there are 2pcs more HDDs for recording same information, and then can enable this function.
Format Disk：Format HDD.
Recover：Reappear the error.
Partition：Partition the HDD.

5.4.2 Account



(Figure 37)

：Select (Figure 35) Account icon, get into(Figure 37) page.

Modify User：Modify user accounts.

Modify Group：Modify group accounts.

Modify Pwd：Modify passwords.

Add User：Add a new user account.

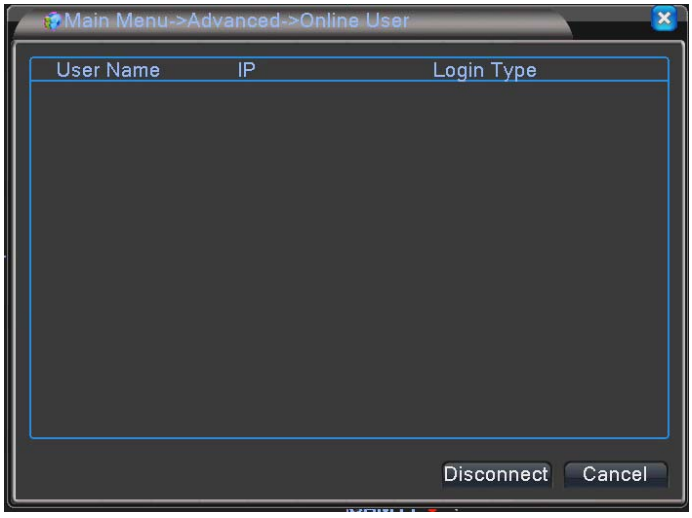
Add Group：Sort accounts by groups.

Delete User：Delete user accounts.

Delete Group：Delete group accounts.

Update：Update the database after modification.

5.4.3 Online User



(Figure 38)

：Select (Figure 35) Online User icon, get into(Figure 38) page.

Display how many current online users.

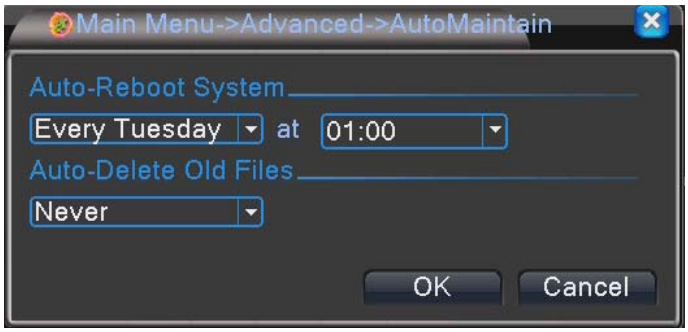
5.4.4 Output Adjust

(Figure 39)

：Select (Figure 35) Output Adjust icon, get into (Figure 39) page.

Adjust the position & brightness for display.

5.4.5 AutoMaintain

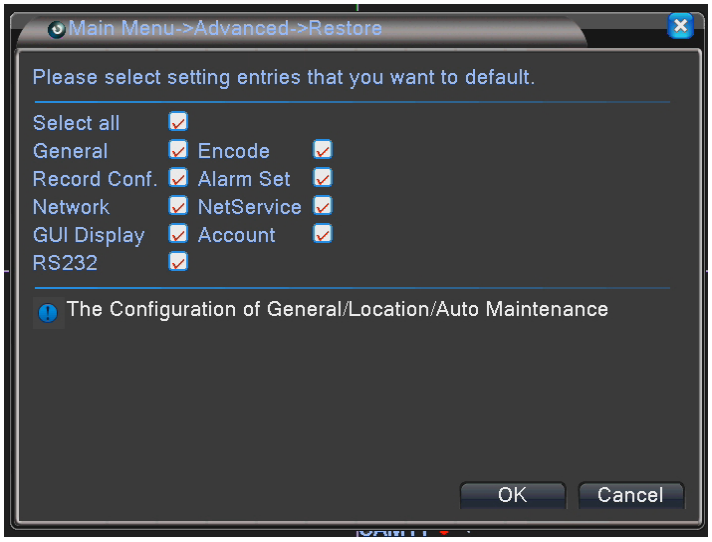


(Figure 40)

：Select (Figure 35) AutoMaintain icon, get into (Figure 40) page.

Enable to reboot the DVR and delete files after assigned time.

5.4.6 Restore

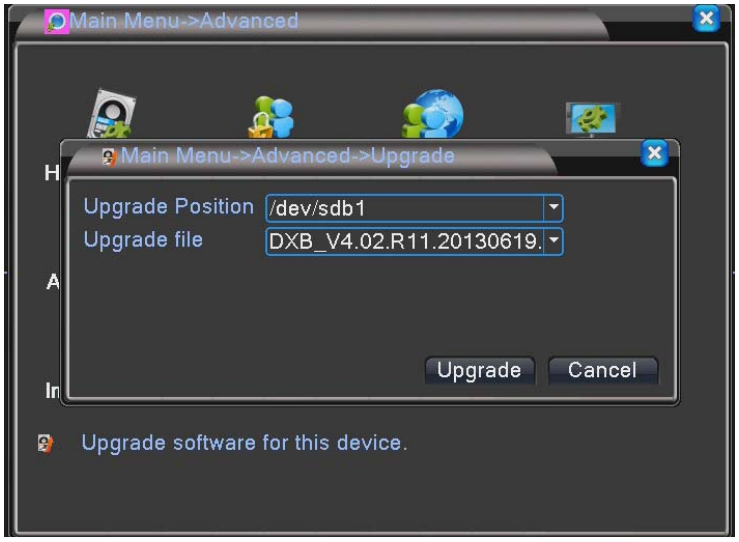


(Figure 41)

：Select (Figure 35) Restore icon, get into (Figure 41) page.

Restore all values to default value.

5.4.7 Upgrade



(Figure 42)

：Select (Figure 35) Upgrade, get into (Figure 42) page.

Plug USB flash disk to upgrade selected files.

5.4.8 Device Info

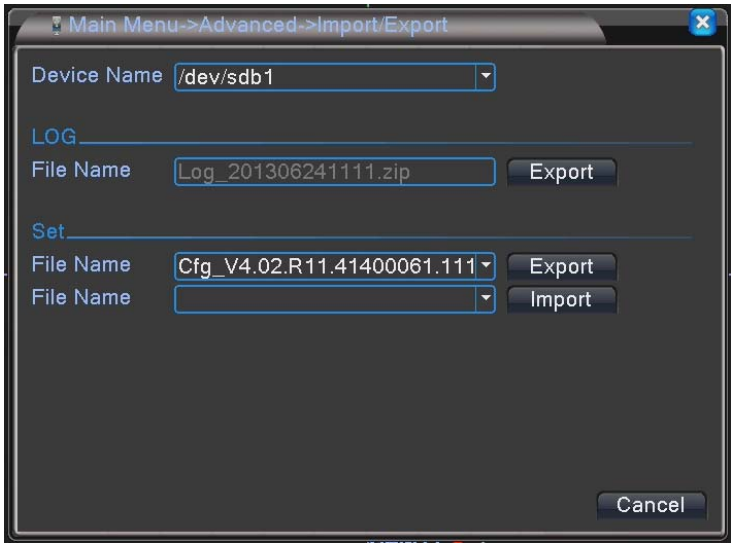
(Figure 43)

：Select (Figure 35) Device Info, get into (Figure 43) page.

Key in the information for DVR.

5.4.9 Import/Export

Import/Export current log and settings from/to a USB

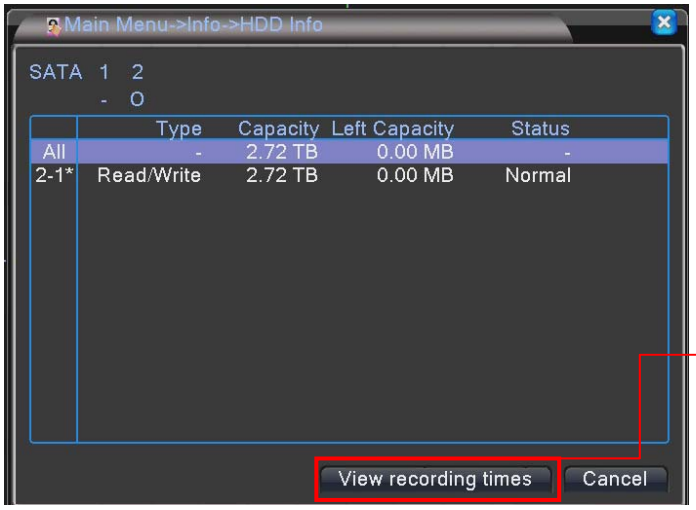


(Figure 44)

：Select (Figure 2) Info icon, get into (Figure 44) page.

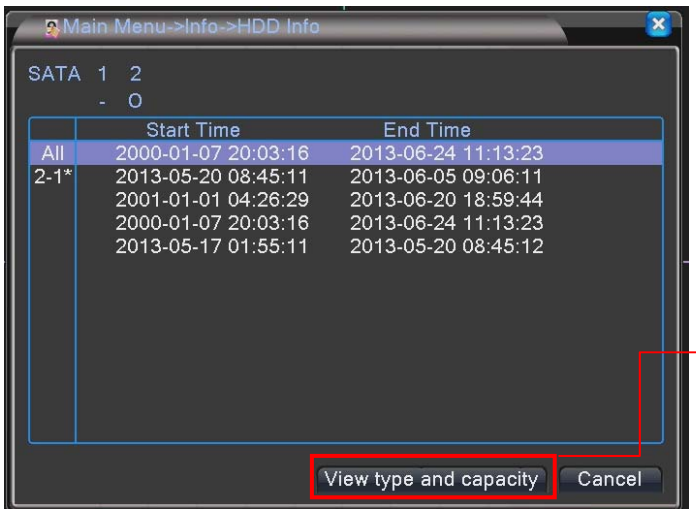
5.5 Info

5.5.1 HDD Info



Select this to show how many pcs for HDD and USB memory storage devices, as (Figure 45).

(Figure 45)

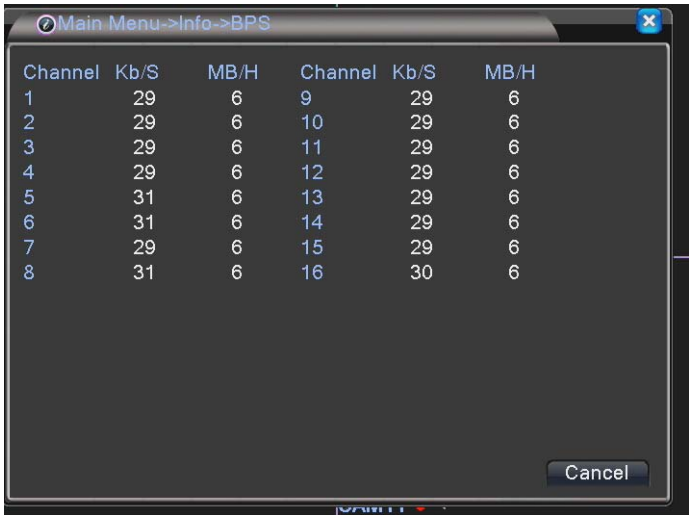


Select this to show the recording time for HDD, as(Figure 46).

(Figure 46)

：Select (Figure 45) HDD Info, get into (Figure 46) page.

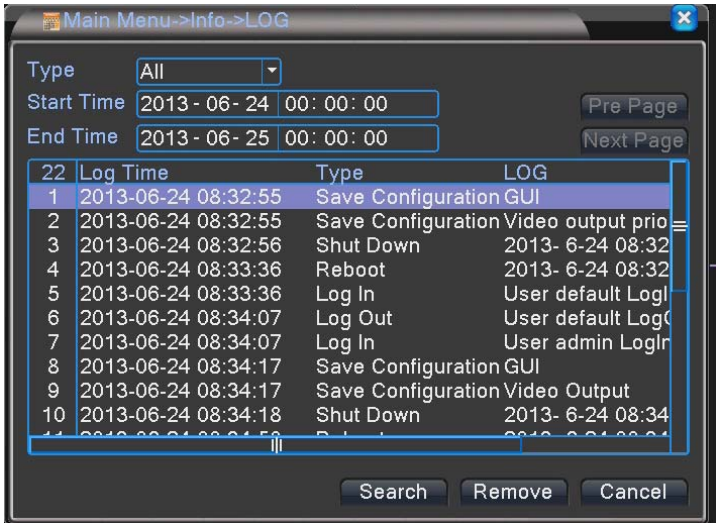
5.5.2 BPS



(Figure 47)

：Select (Figure 44) BPS icon, get into (Figure 47) page. Display the statistics of current image BPS.

5.5.3 LOG



(Figure 48)

：Select (Figure 44) LOG icon, get into (Figure 48) page. Records of DVR LOG message.

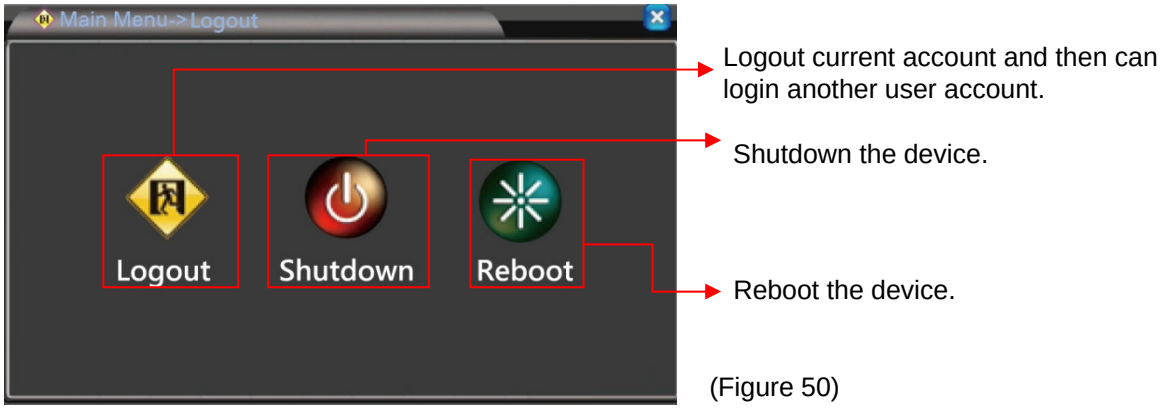
5.5.4 Version

(Figure 49)

：Select (Figure 44) Version icon, get into(Figure 49) page.

Display current system version and serial no.

5.6 Logout



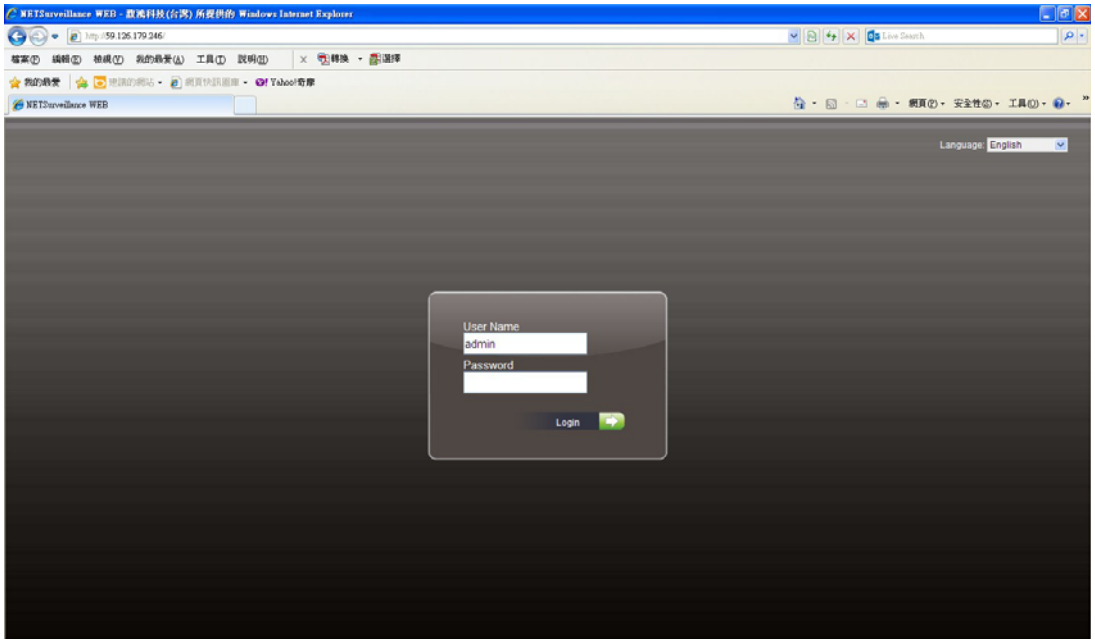
(Figure 50)

：Select (Figure 2) Logout icon, get into (Figure 50) page.

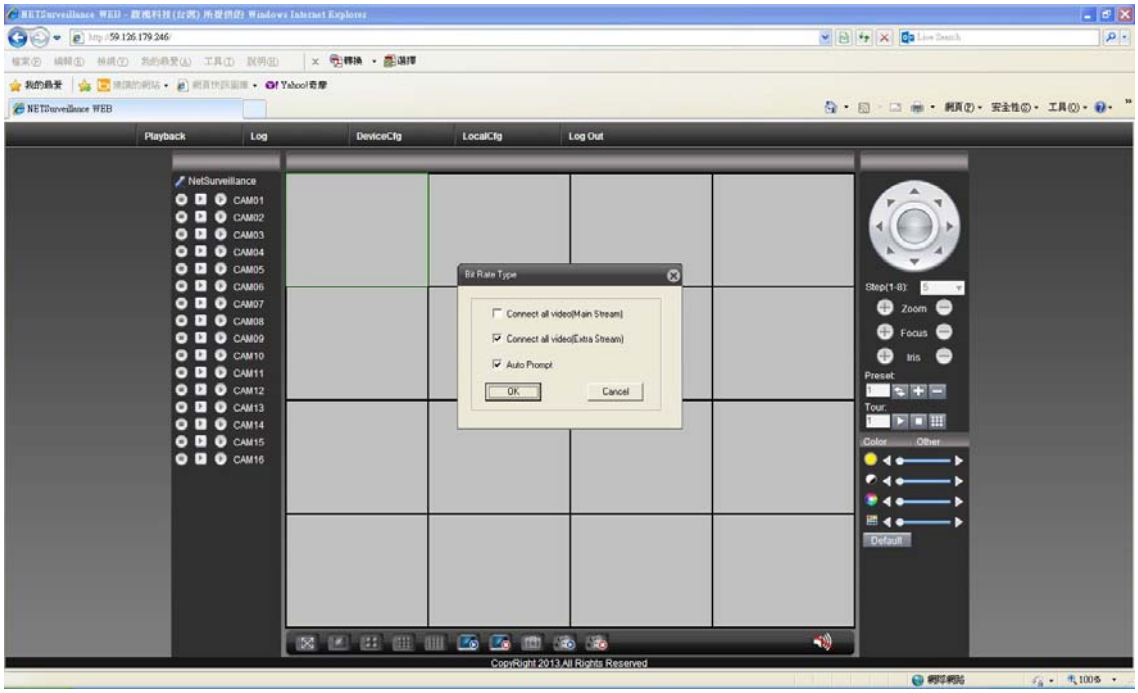
6. NET Surveillance WEB IE

Login IE browser

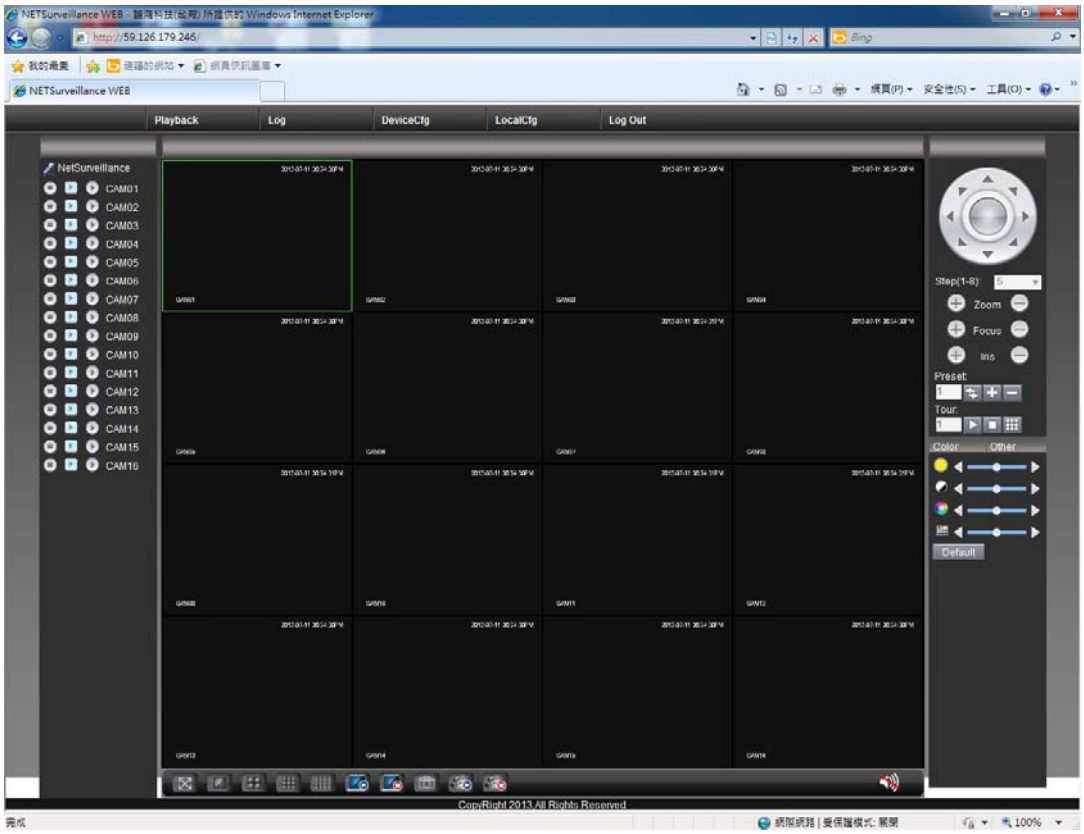
After Keyin IP or DDNS, if password without setting in DVR device, just key in “admin” for login.



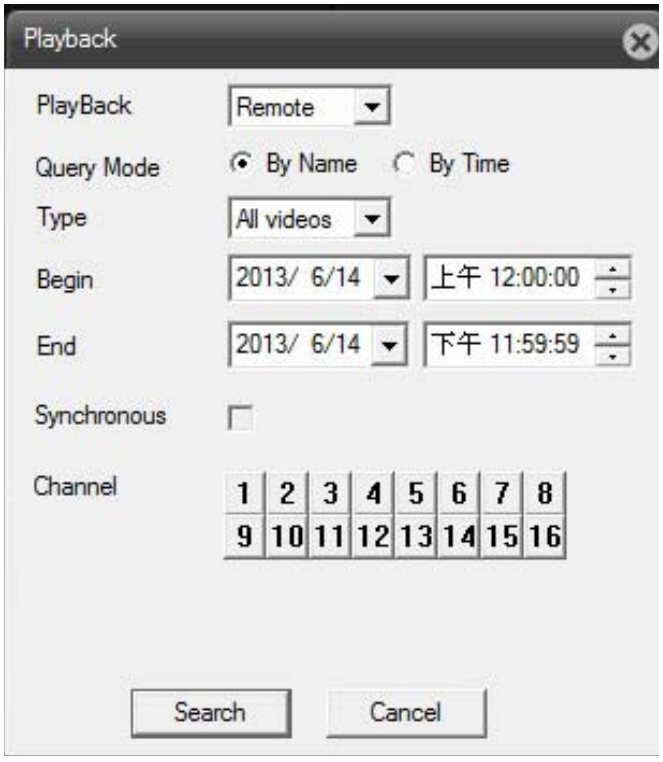
After login, a message pops out to choose the monitor streams for main stream or subsidiary stream, default value is subsidiary stream.



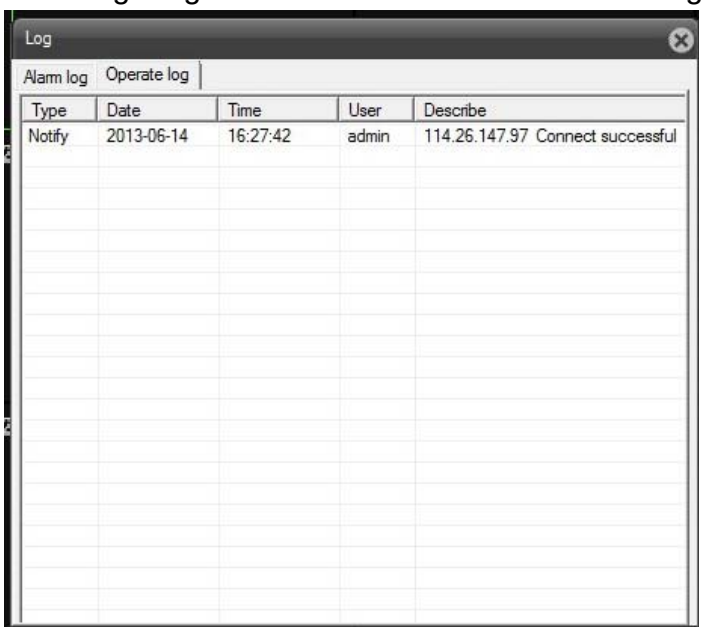
After login, monitoring images and select 1/4/9/16 screens.



■ Playback : Setting requested period of time to playback.



- Alarm Log: Login in and then can search Alarm log messages.



- Device Config：Setting the record selections.

1） Record：

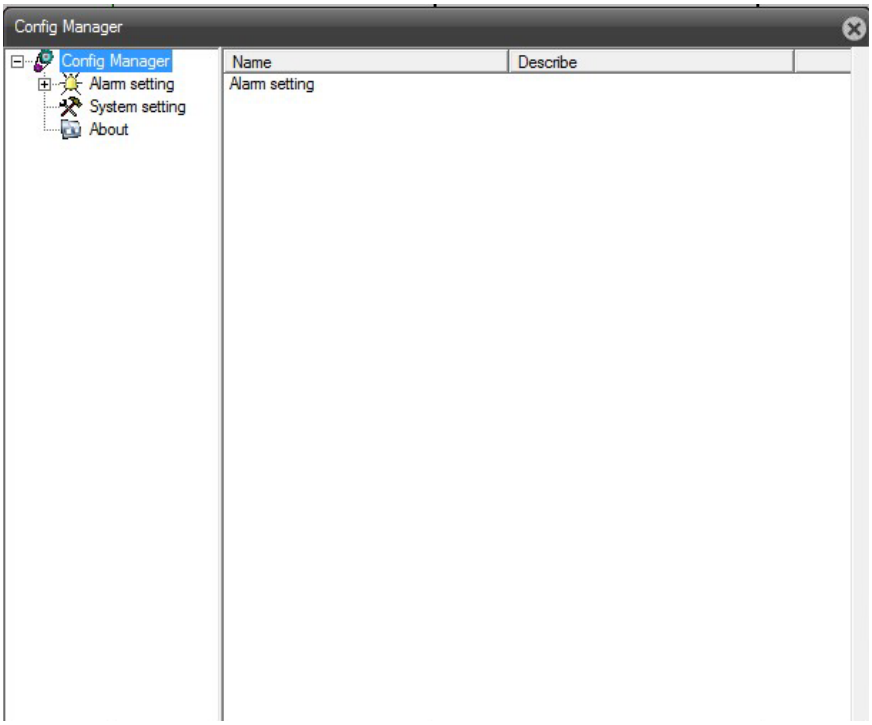
2） Alarm settings：Setting the alarm selections.

3） System settings：Setting the system selections.

4） Advanced：Setting the Advanced selections.

5） Info：Checking HDD information, Log, current version & device No.

■ Config Manager：Set the storage place for Recording Videos and photos, and alarm setting.



■ Log Out：Click to log out for current screen.

FUHO TECHNOLOGY CO.,LTD.
No. 30, Lane 726, Jinma Rd, Sec. 3,
Chang Hua City, Taiwan 500.
TEX:886.4.751.2881