

# Bavono NVR Quick Guide

## Table of Contents

Bavono NVR Quick Guide .....	1
1 Default IP.....	2
2 NVR username and password .....	2
2.1 Default username and password .....	2
2.2 Add new users and permission settings.....	2
3 Bavono NVR IP address search.....	4
3.1 Install Bavono IP Device (Device Manager).....	4
3.2 Using Device Manager .....	5
4 Restore factory default settings .....	6
4.1 Restore default account password .....	6
4.2 Restore NVR Settings.....	6
5 Adding IP cameras to Bavono NVR.....	9
5.1 Adding Bavono IP Cameras .....	10
5.2 Adding IP cameras of other brands.....	15
6 Local recording status .....	16
6.1 Monitoring status.....	17
6.2 Recording settings.....	17
7 Local playback .....	20
8 Local backup.....	22
9 DDNS Settings .....	24
9.1 NVR IP address settings.....	24
9.2 NVR port forwarding .....	26
9.3 NVR DDNS activation.....	26
10 Access via mobile app .....	27
10.1 Connect via domain name .....	27
10.2 Connect via cloud networking.....	28
11 Remote Monitoring via IE .....	31

# Bavono NVR Quick Guide

## 1 Default IP

The default IP address is: **192.168.1.9**

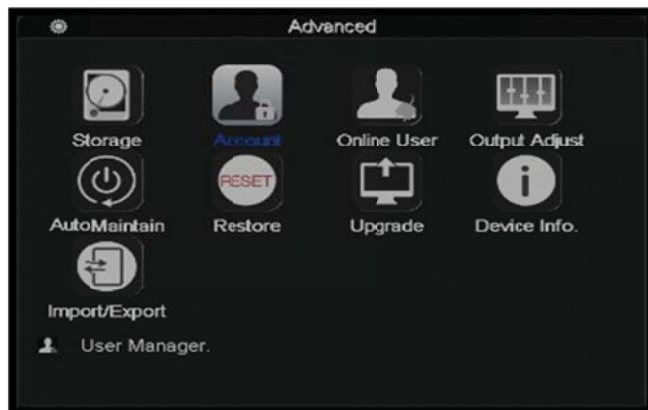
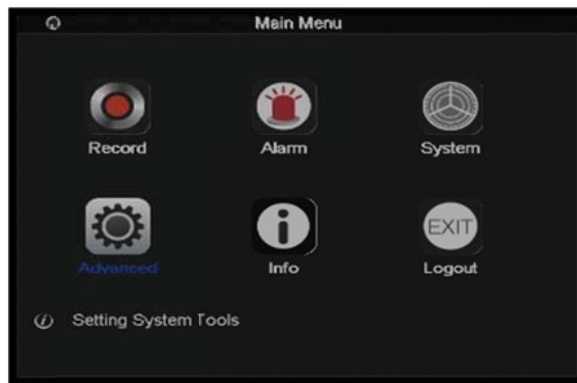
## 2 NVR username and password

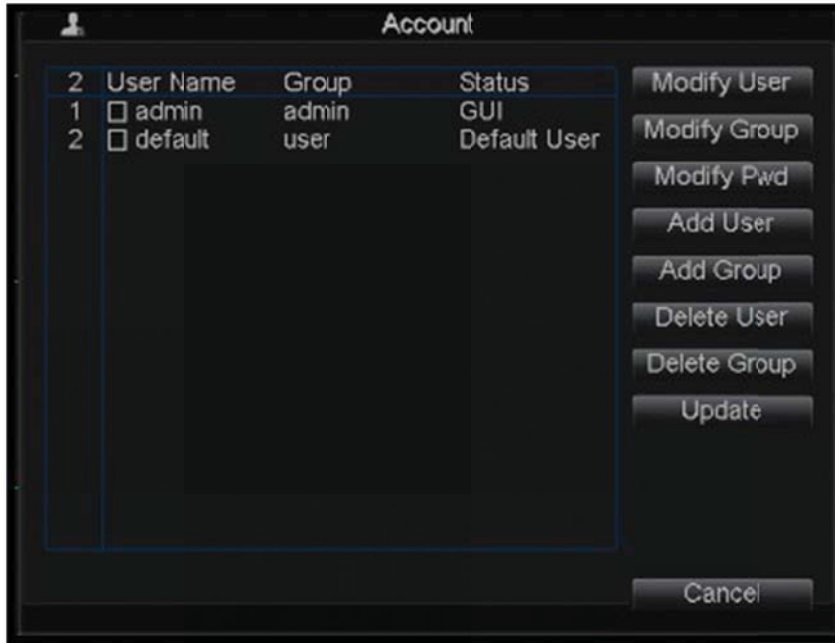
### 2.1 Default username and password

The default username is '**admin**', by default there is no password.

### 2.2 Add new users and permission settings

Go to 'Main Menu' → 'Advanced' → 'Account'



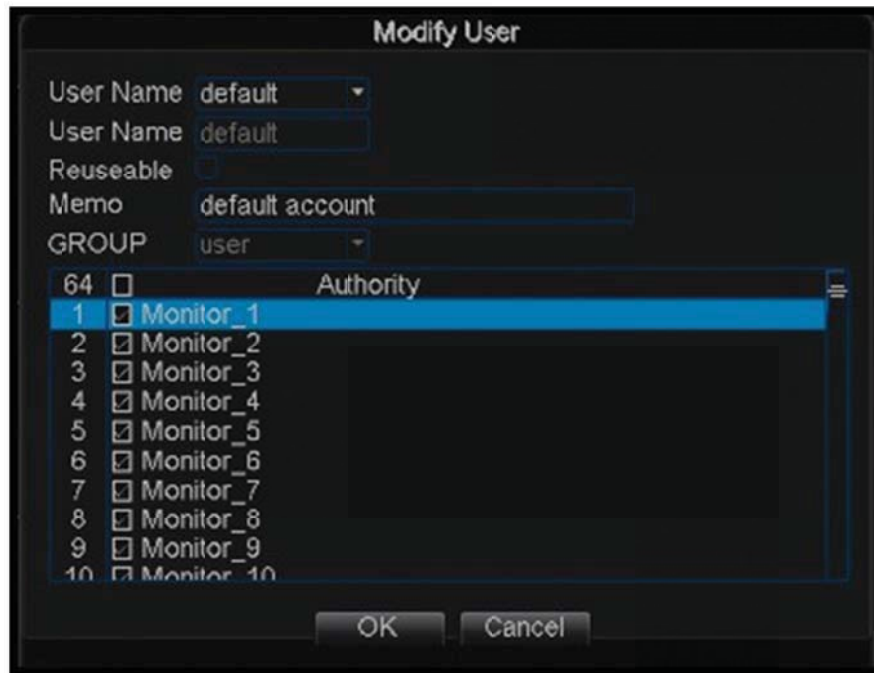


You may define settings according to 'Group' or 'User'. There are two levels by default; 'admin' or 'user'.

**【admin】**: Highest level of permission; actions allowed include modifying NVR settings, operation, live viewing and playback for selected channels etc.



**【user】**: Standard user permissions; only live viewing and playback for selected channels are allowed.



### 3 Bavono NVR IP address search

#### 3.1 Install Bavono IP Device (Device Manager)

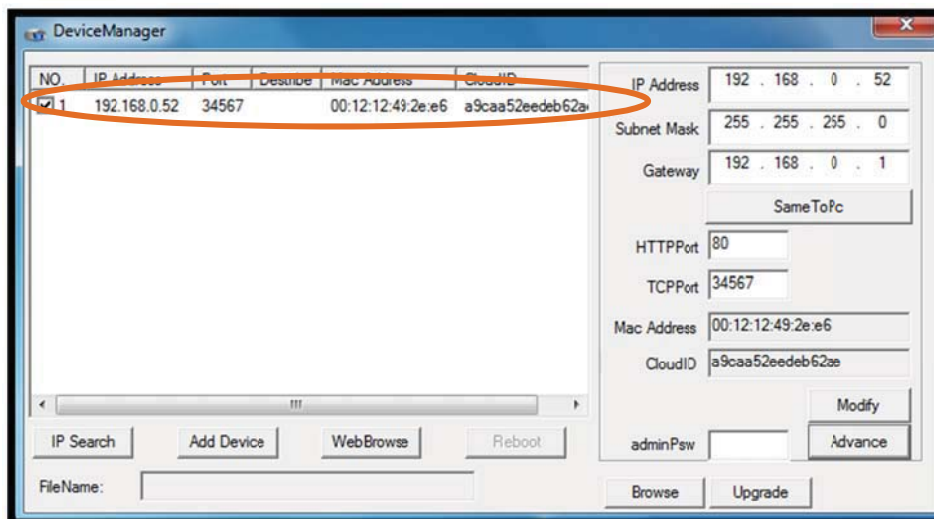
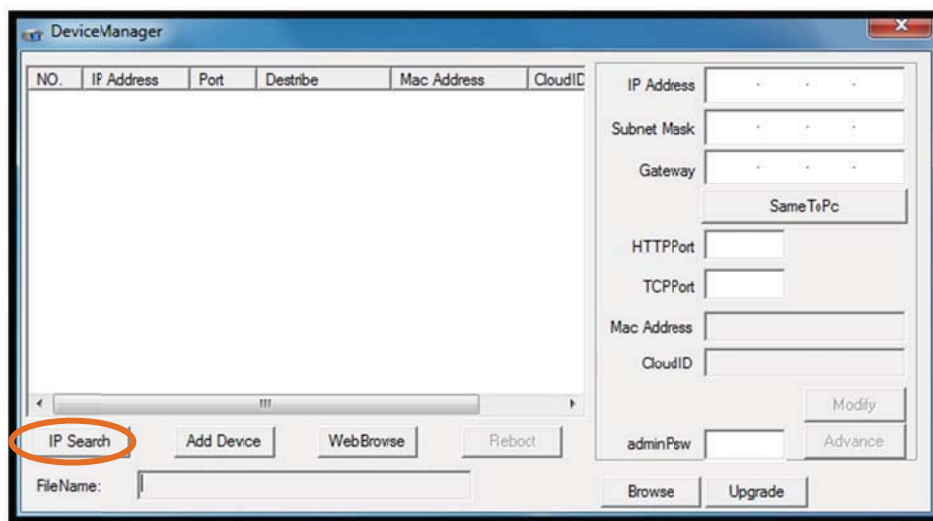


## 3.2 Using Device Manager

1) Double click to open Device Manager



2) Click 'IP Search' button to run automatic NVR search



## 4 Restore factory default settings

**Note: Bavono NVR cannot be restored via hardware reset.**

**You will need to perform a reset locally at the NVR host or access the NVR via IE to restore factory defaults.**

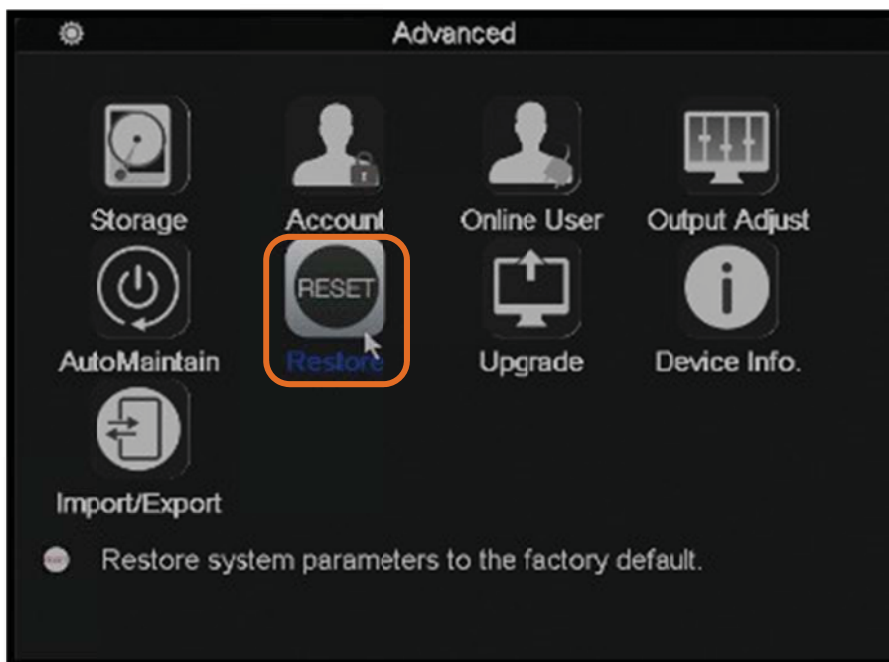
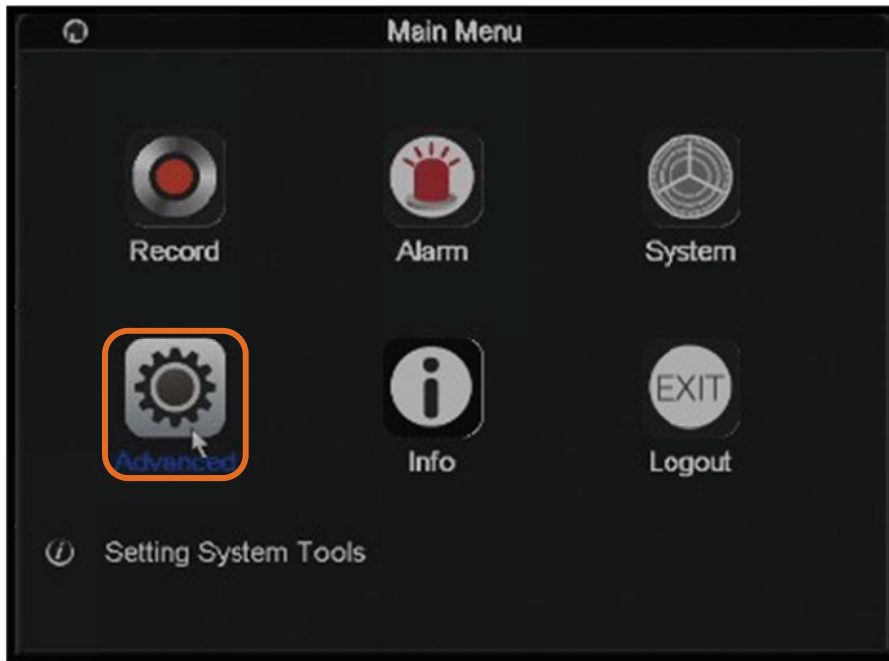
### 4.1 Restore default account password

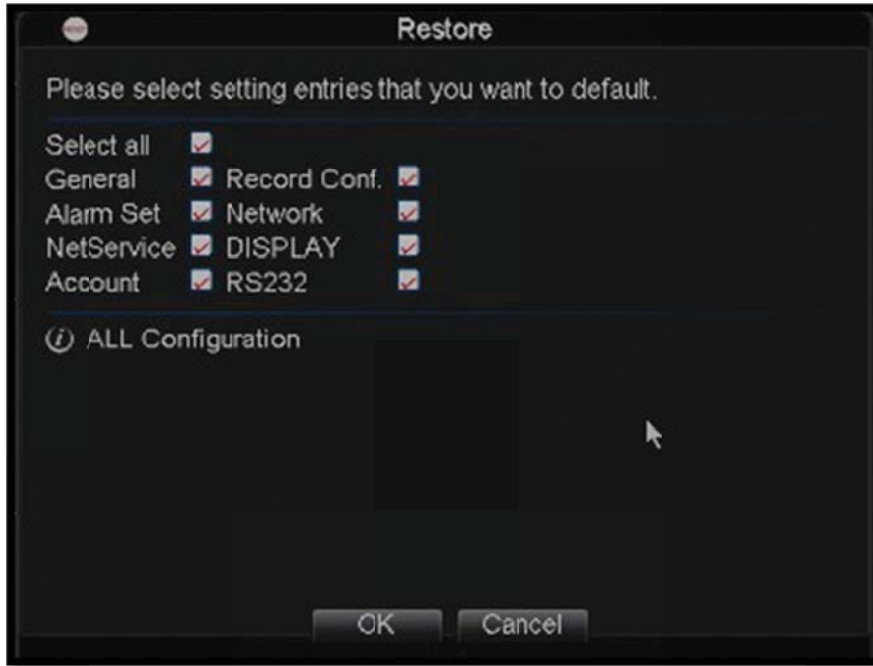
- 1) Provide the current time of NVR
- 2) According to the time you provided, technical support personnel will provide you with a corresponding reset code to reset password
- 3) Enter the reset code at the NVR to restore or reset password

**Note: Password reset process must be completed within 30 minutes**

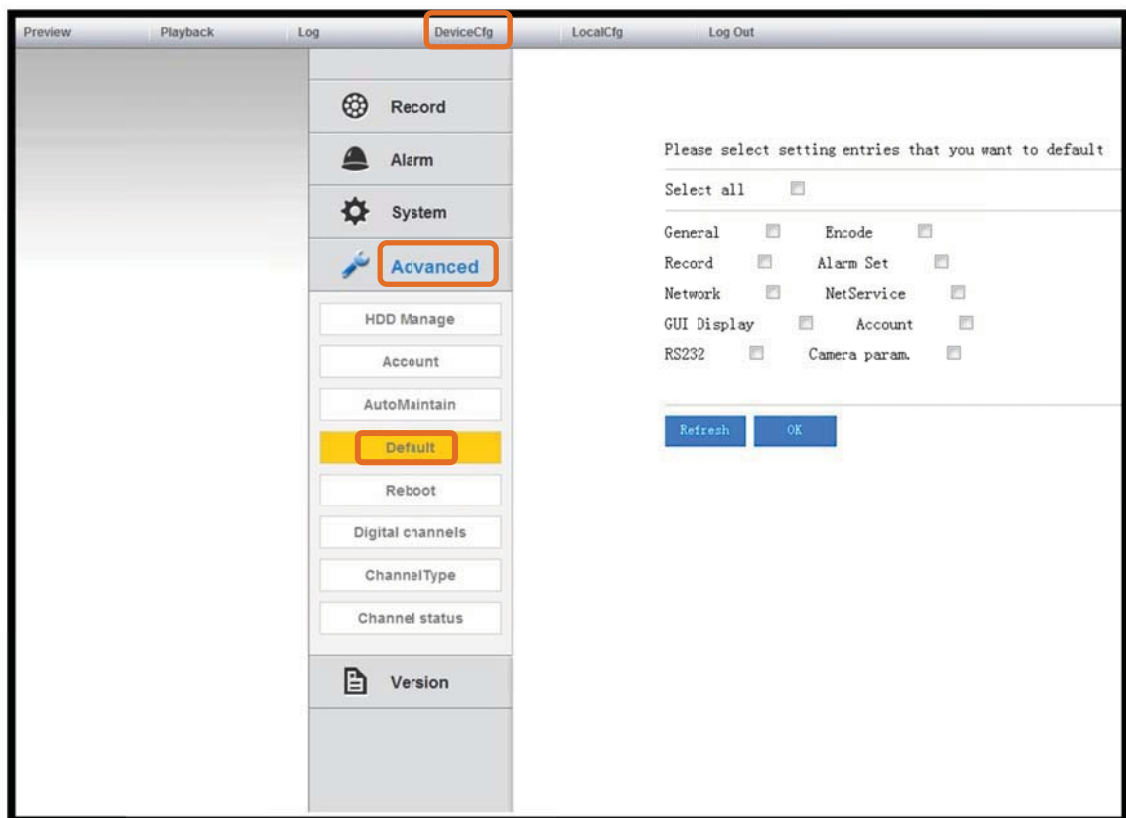
### 4.2 Restore NVR Settings

- 1) At the local machine, go to 'Settings' → 'Advanced' → 'Restore'





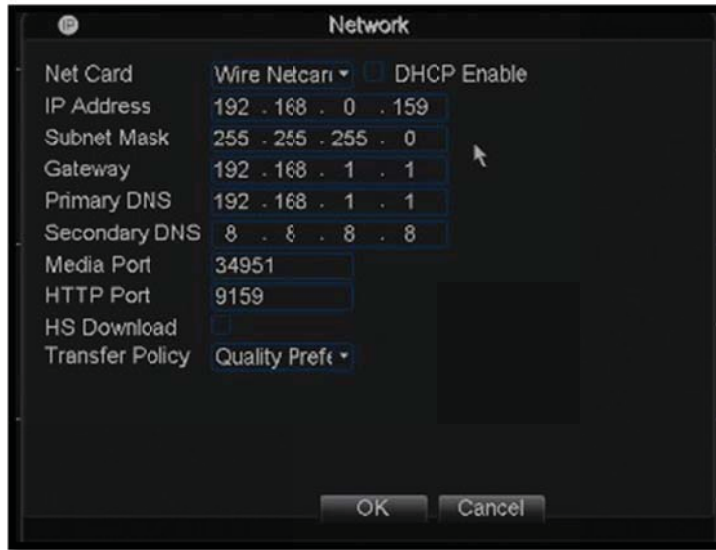
- 2) Once you have gained access to NVR via IE, goto 'Devicecfg'  
 → 'Advanced' → 'Default'



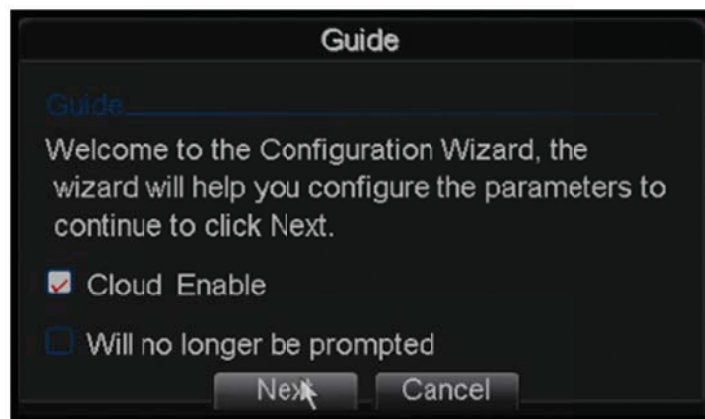


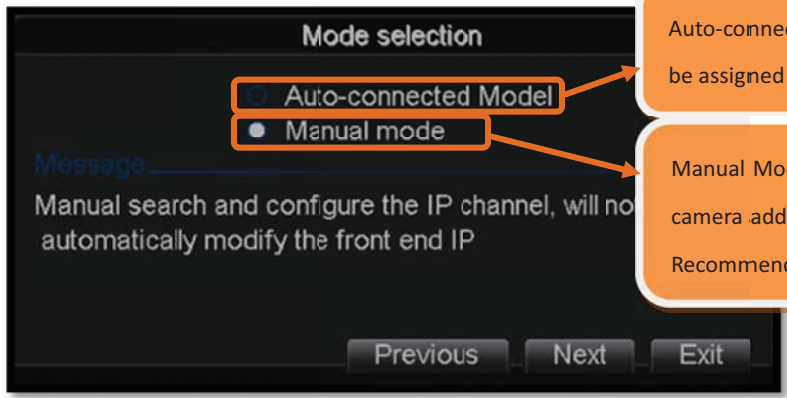
## 5 Adding IP cameras to Bavono NVR

- ※ **Note 1:** IP address of NVR and IP address of IP camera must belong to the same subnet. Please ensure IP address of NVR has been properly configured prior to adding IP cameras.



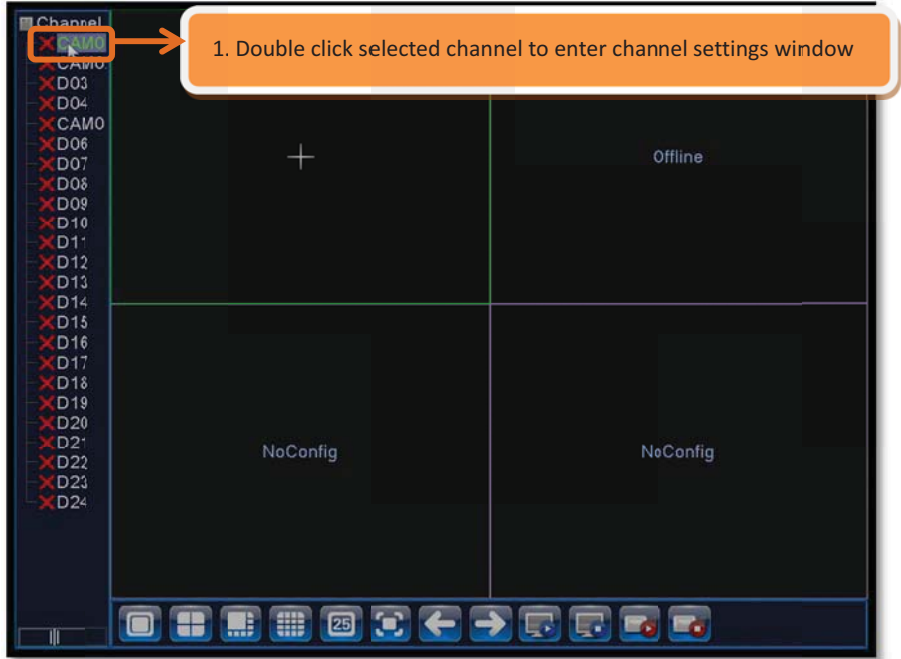
- ※ **Note 2:** The default configuration mode of NVR is manual mode, which is the recommended mode.

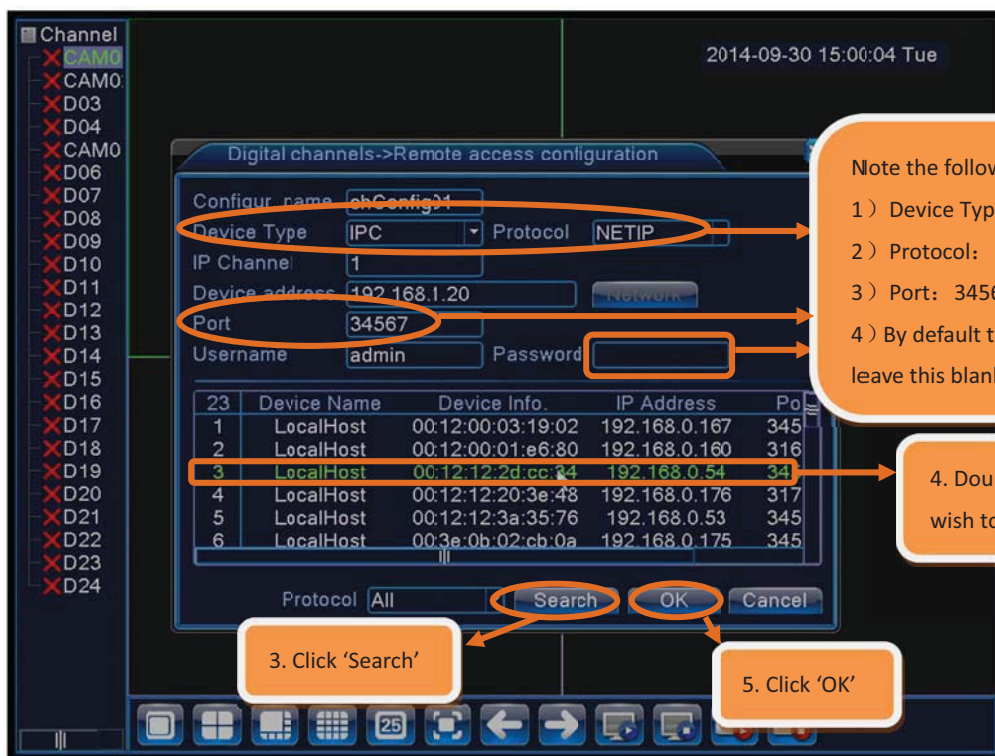
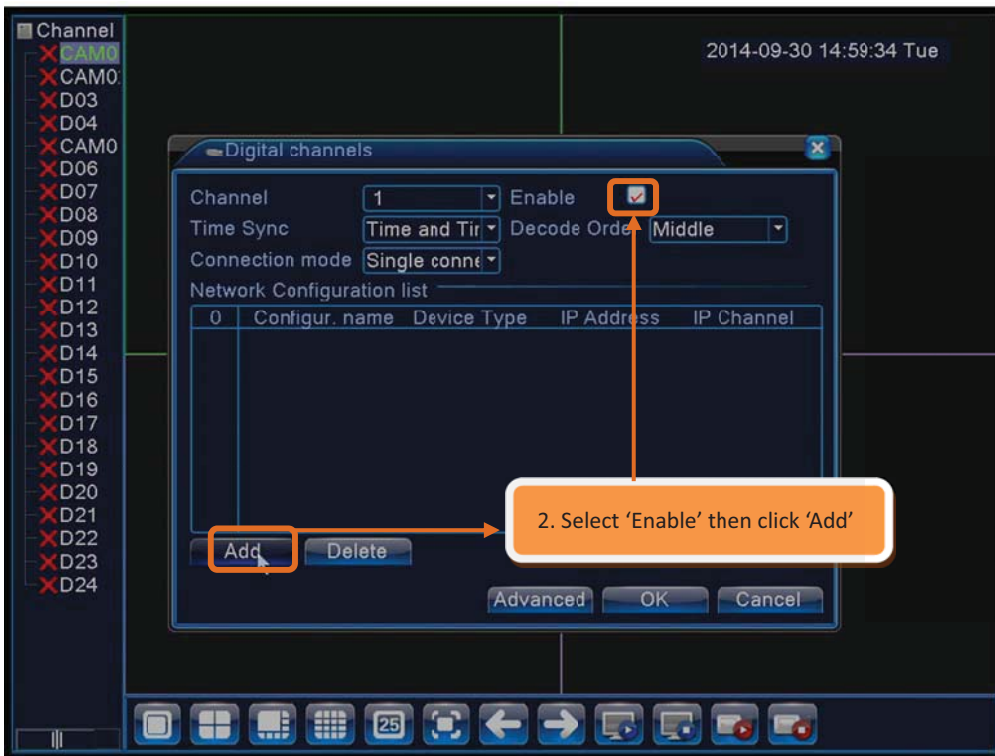


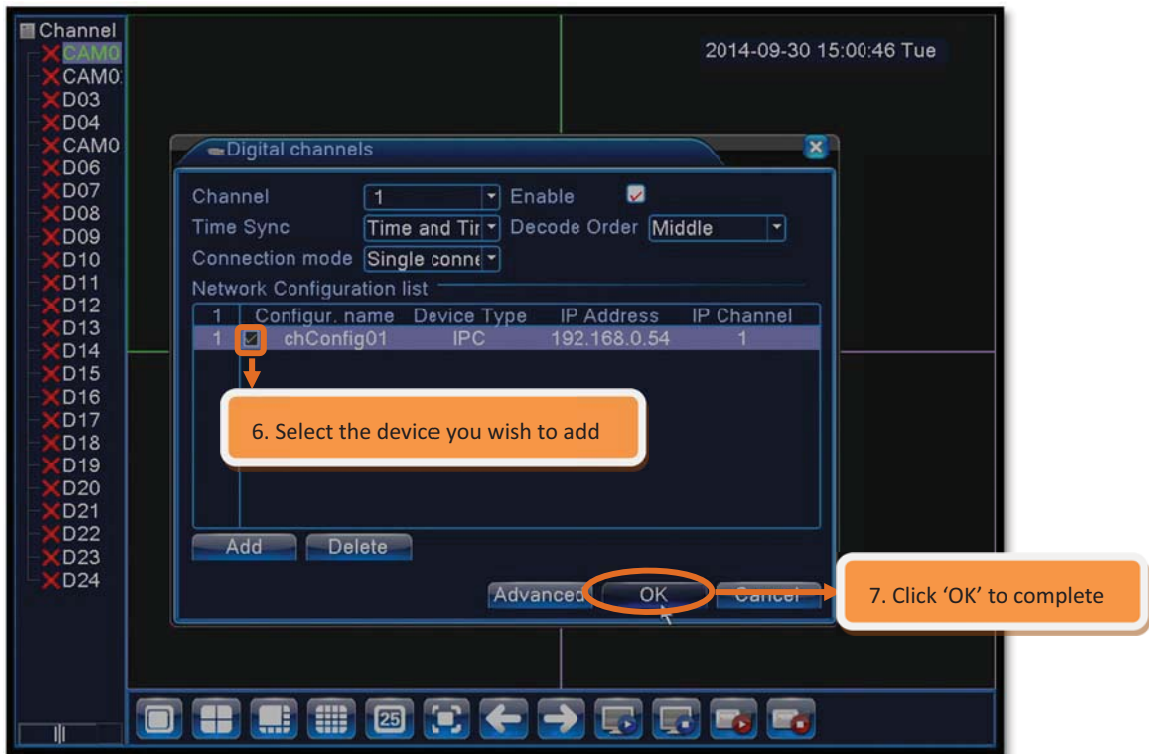


## 5.1 Adding Bavono IP Cameras

### 5.1.1 Add Bavono camera manually (single camera)

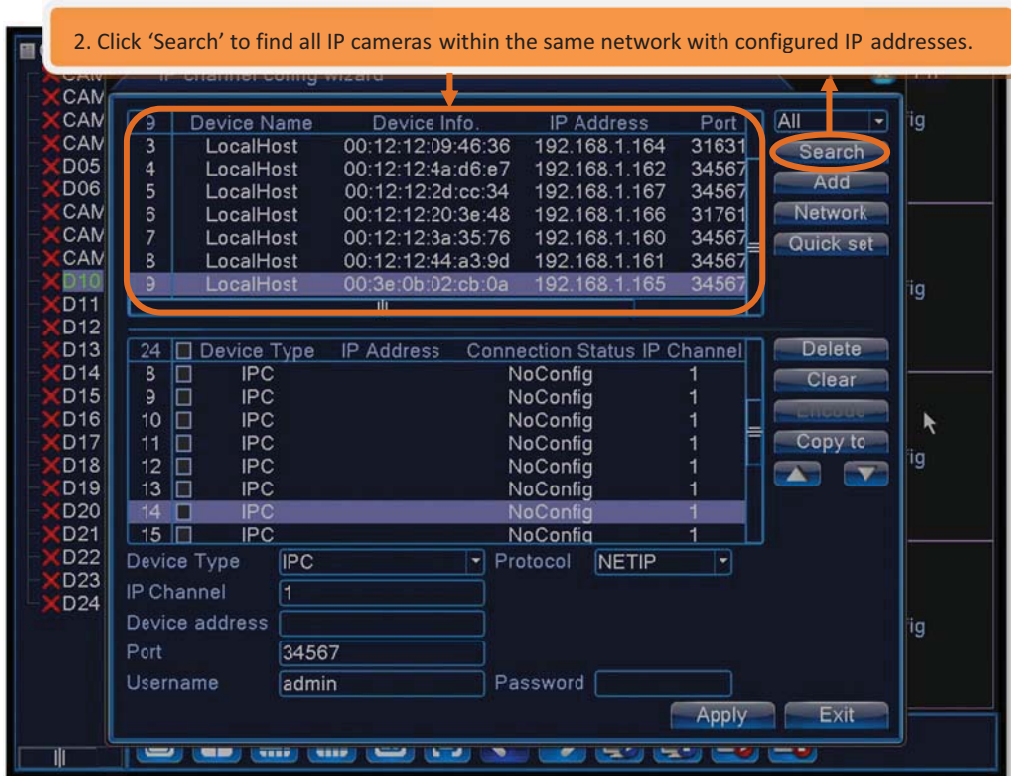
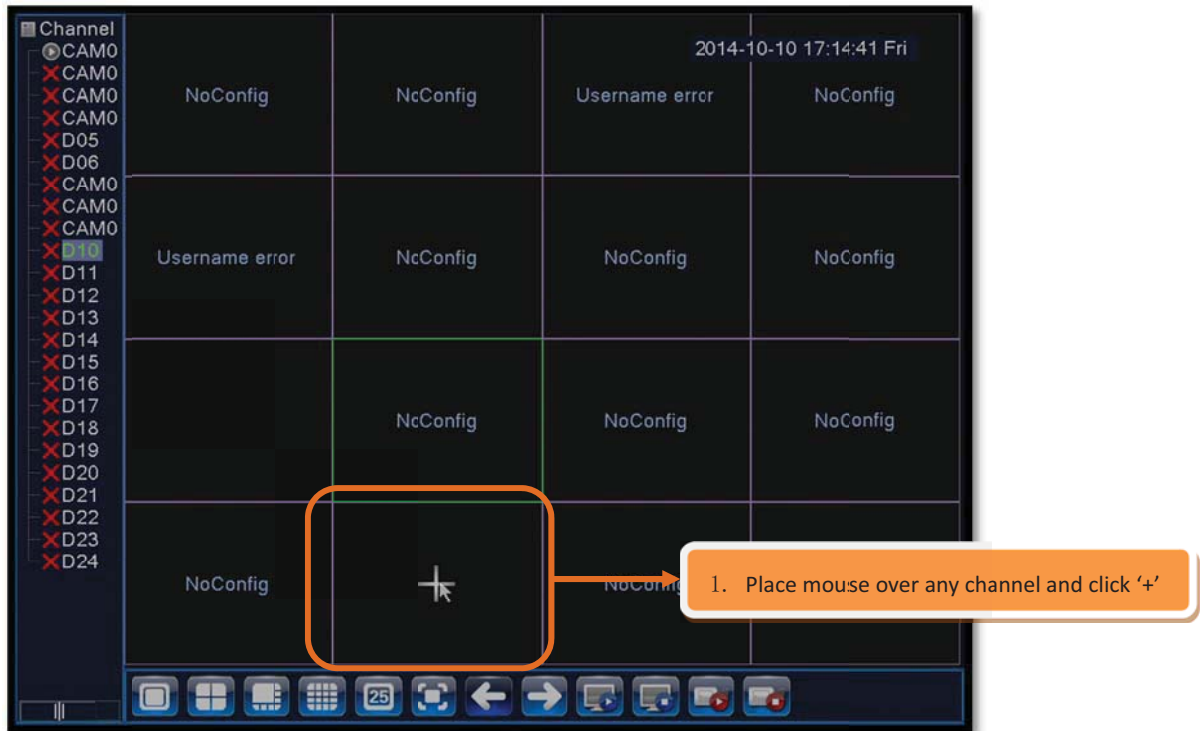


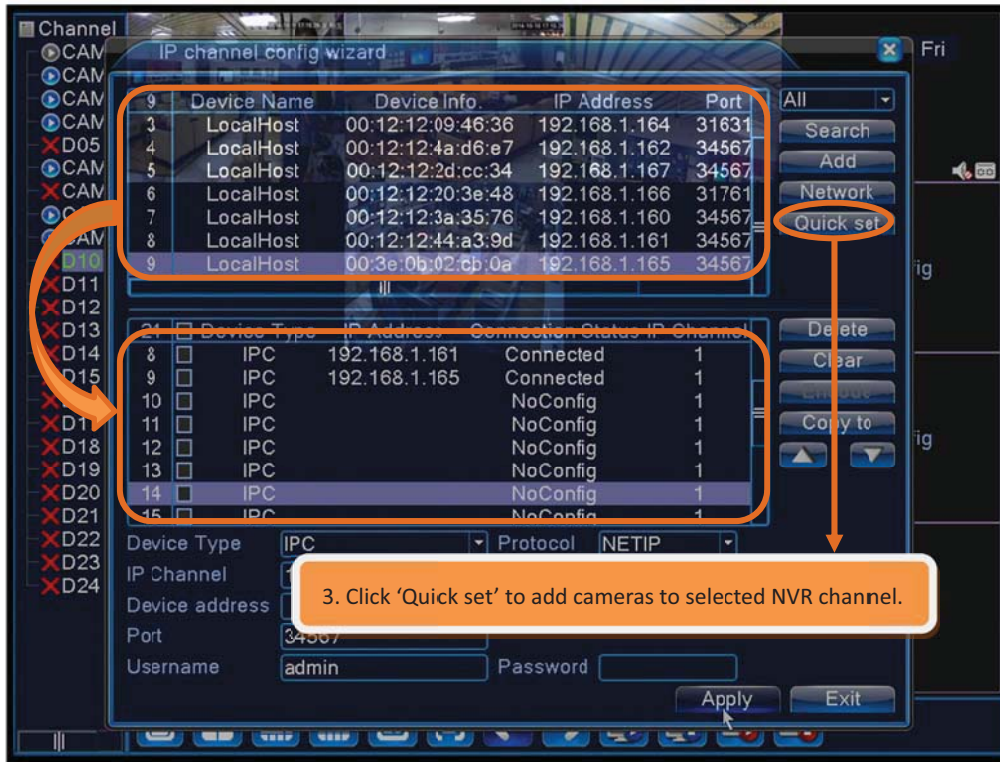




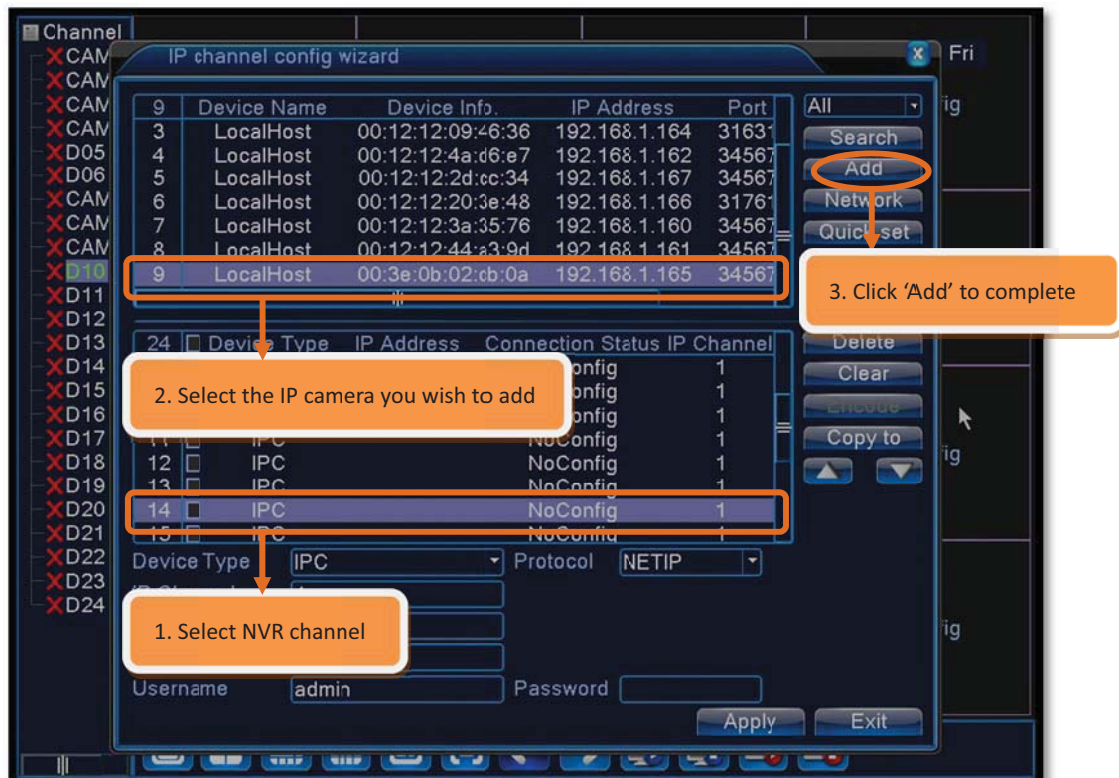
### 5.1.2 Add group of IP cameras (multiple cameras)

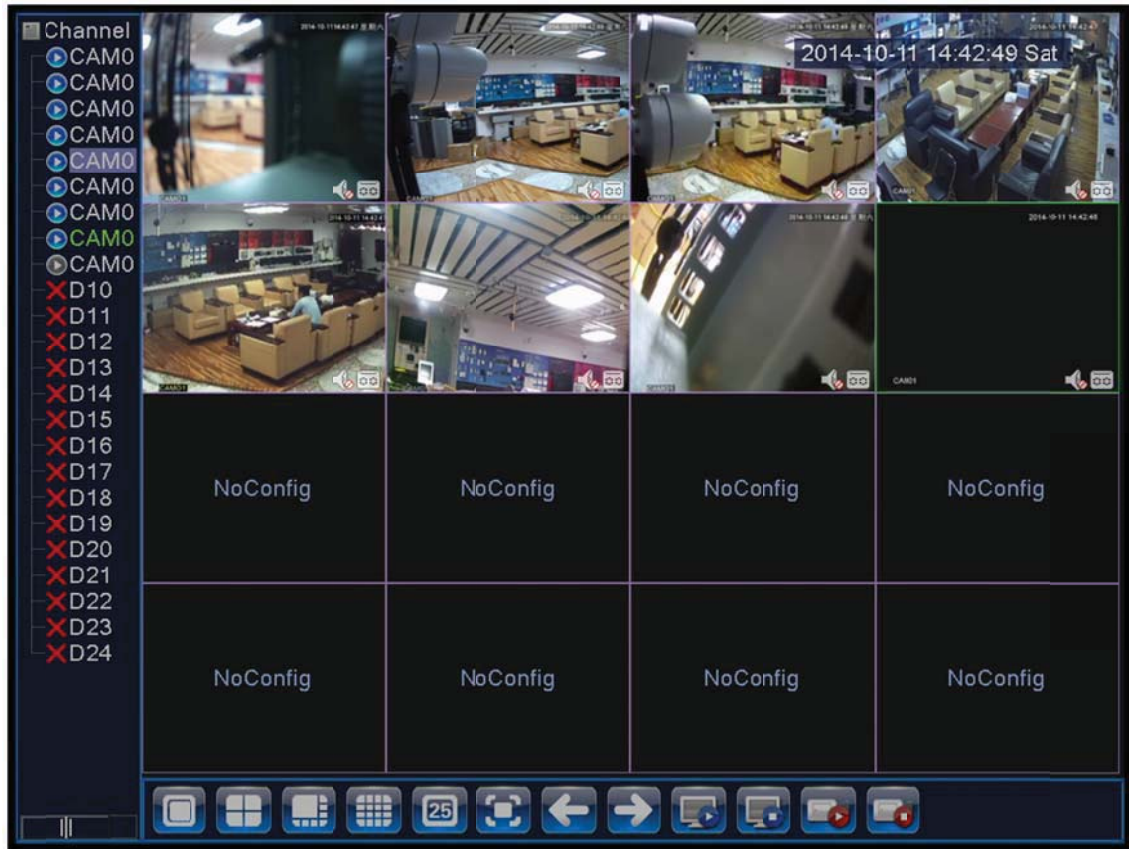
- 1) Add IP cameras by group





Note: When cameras are added to a NVR channel via Quick set, the list of cameras will appear in random order. If the cameras are required to be arranged in a particular order, follow the steps below.

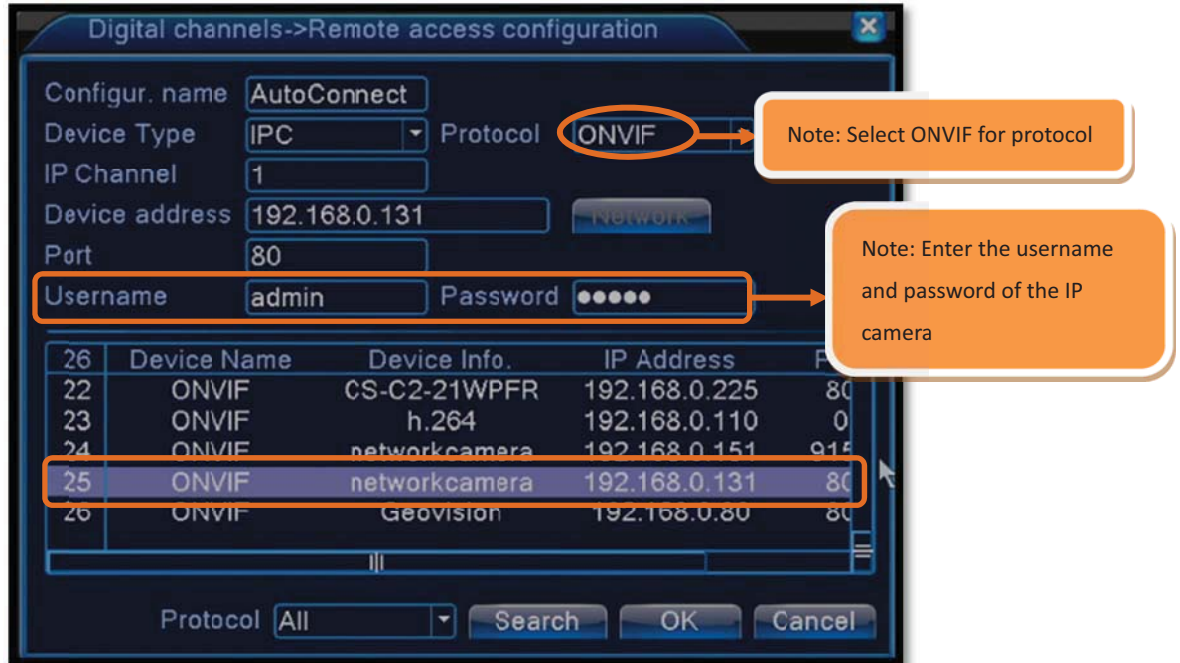




## 5.2 Adding IP cameras of other brands

Bavono NVR supports other IP camera brands, but only limited to cameras with ONVIF 2.0 support.

Steps to add cameras are the same as 5.1.1, except that Protocol must be changed to ONVIF.

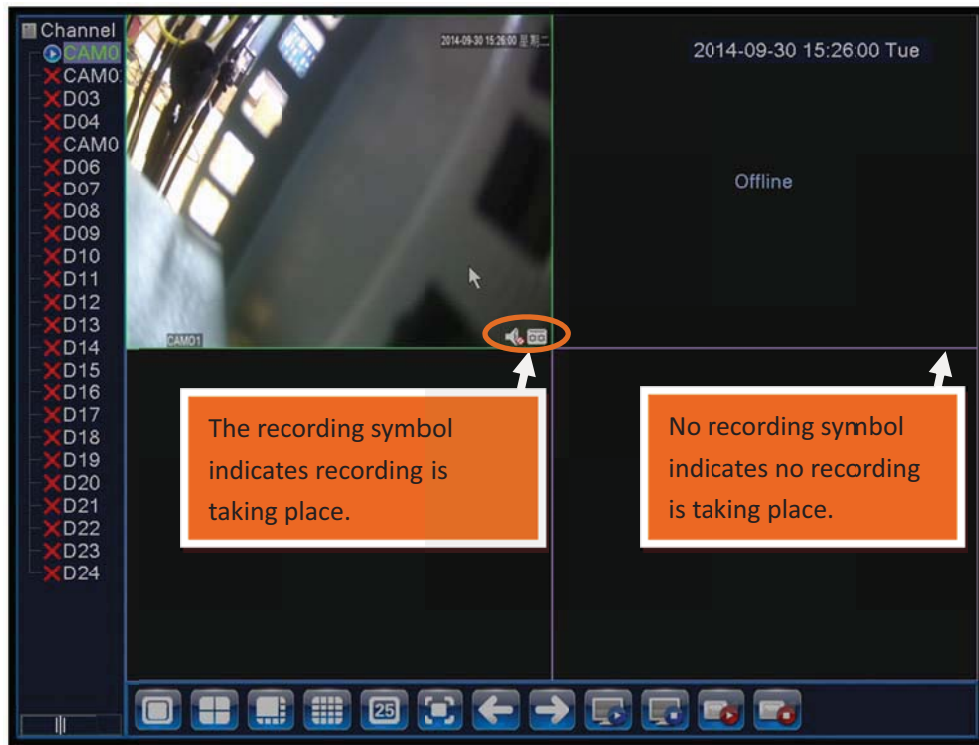


## 6 Local recording status


The following explains how to determine whether or not an NVR is recording normally, and how to configure the recording settings.




## 6.1 Monitoring status



### Recording status

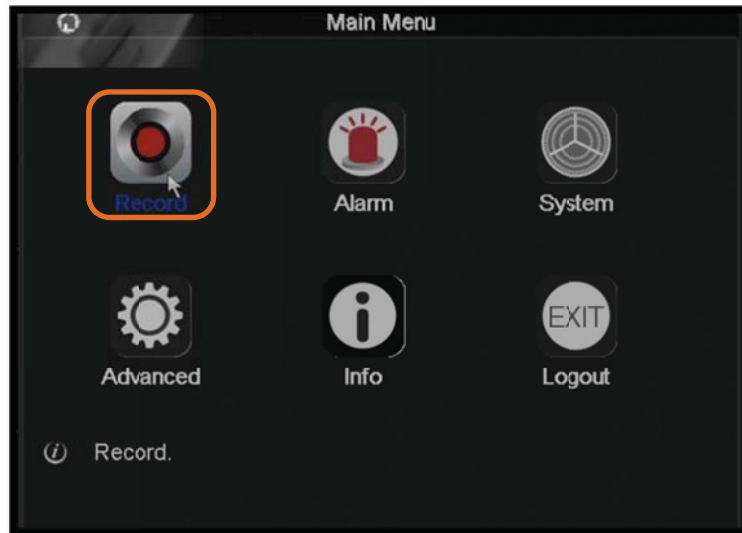
If  symbol appears at the bottom right corner, recording is taking place.

If there is no  symbol at the bottom right corner, no recording is taking place.

## 6.2 Recording settings

### 6.2.1 Operation settings

Unless otherwise requested by client to configure scheduled recording, the default recording mode will be 'Manual'.



## Recording configuration

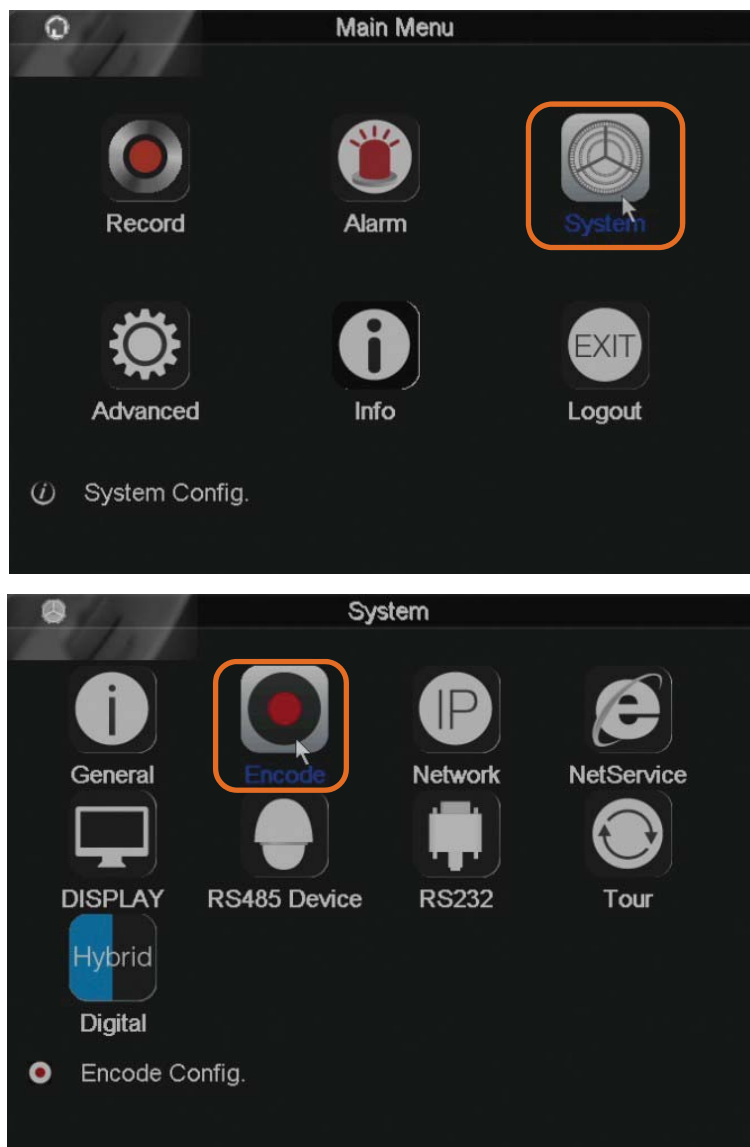
**【Schedule】** Recording will take place according to customized settings of each channel (can define attributes including time, motion detection, and alarm).

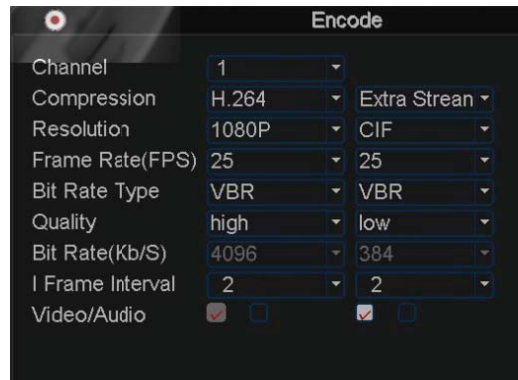
**【Manual】** For channels with 'Manual' selected, recording will take place on a 24 hour ongoing basis.

**【Stop】** No recording will take place for channels with 'Stop' selected.

## 6.2.2 Streaming Settings

IP camera must be successfully added prior to configuring streaming settings. Steps are as follows:



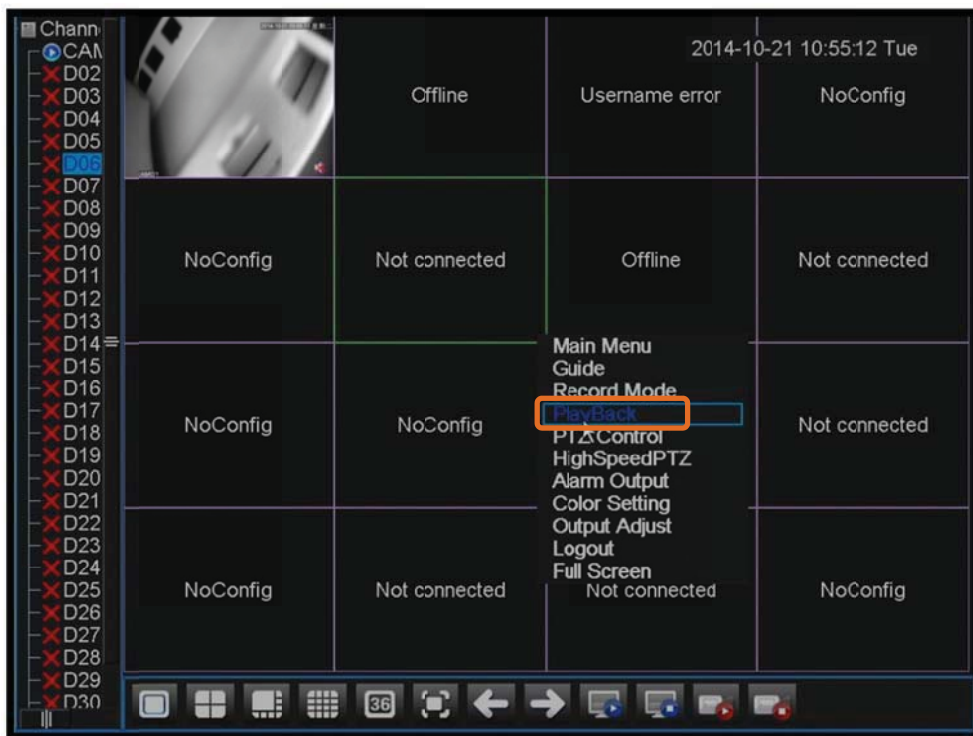


★When VBR (variable bit rate) is selected, 'Bit Rate' field becomes non-selectable  
 ★When CBR (constant bit rate) is selected, 'Bit Rate' field is selectable.

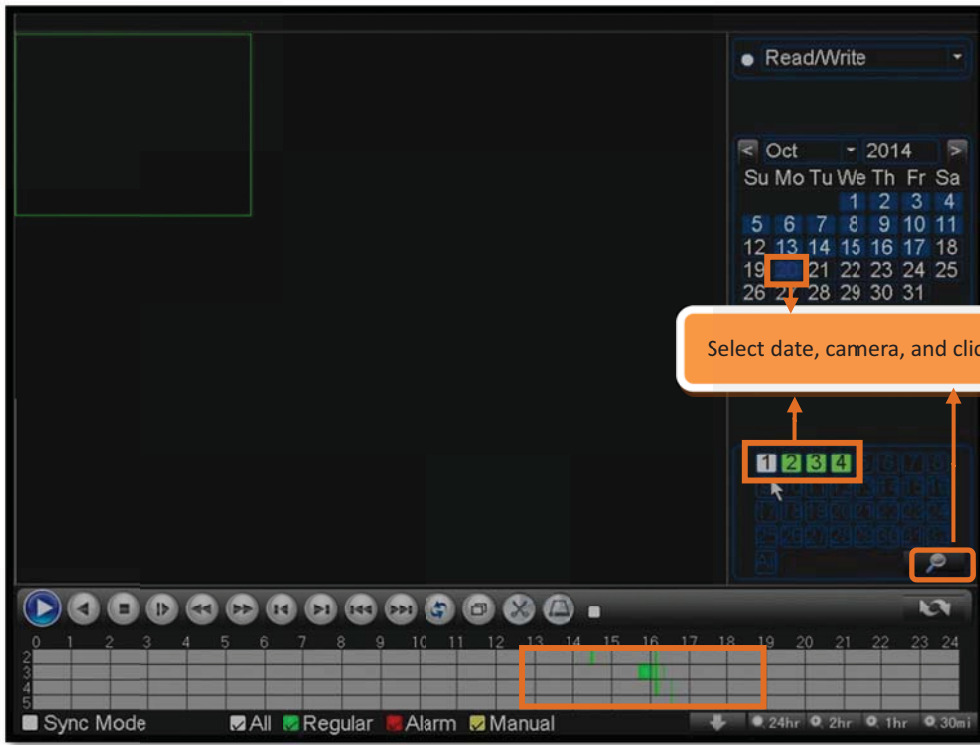
※Recommended settings for recording:  
 1. Bit Rate Type: CBR (constant bit rate)  
 2. Bit Rate: 2048 kbps

## 7 Local playback

1) Right click anywhere on the screen to launch menu, select 'Playback' as shown below:



2) The 'Playback' screen shown below will appear:



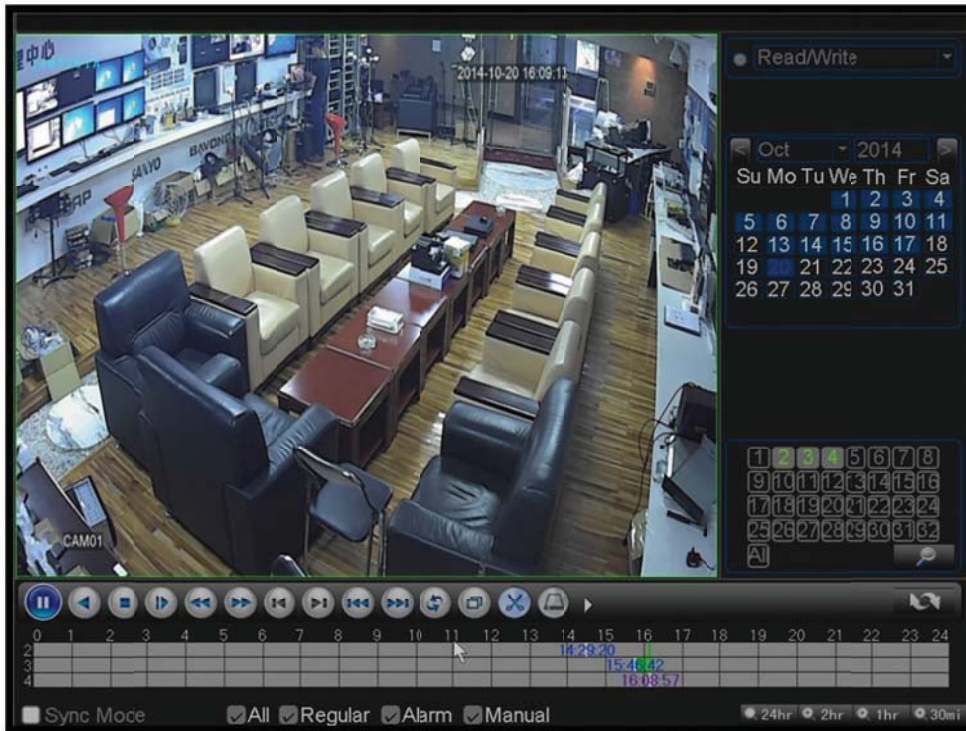
Note:

Yellow represents manual recording

Green represents scheduled recording

Grey represents no recording

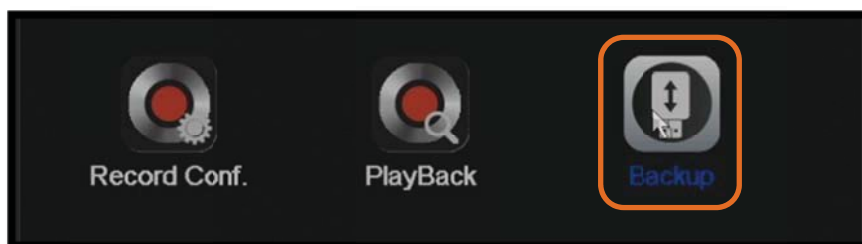
3) Video footage that corresponds to the filter criteria will appear on Playback screen, as shown below:



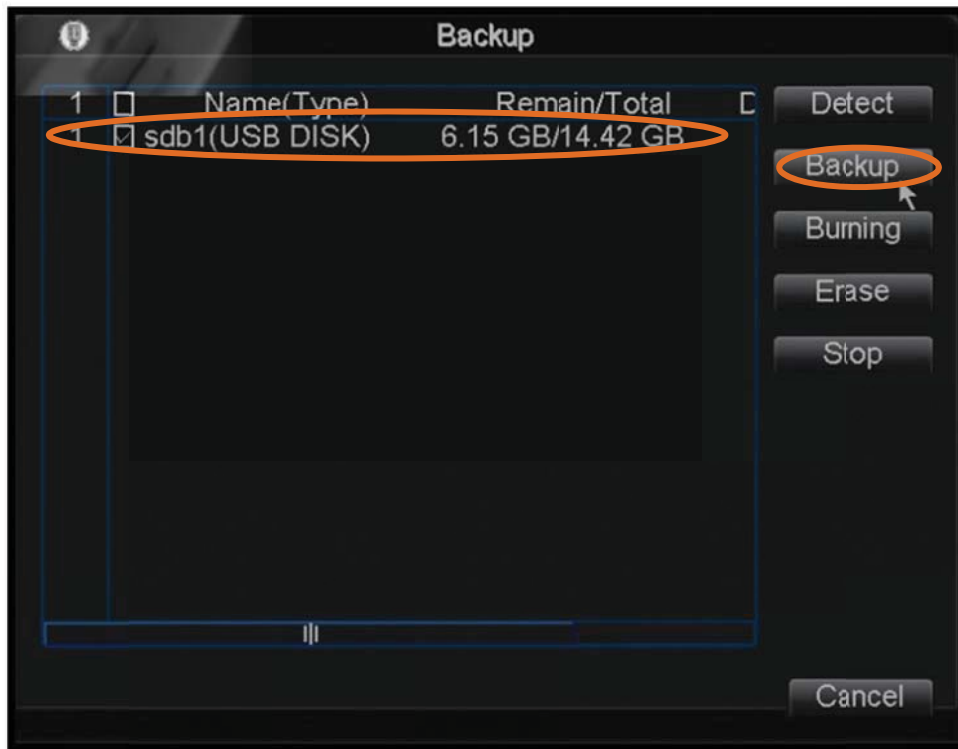
## 8 Local backup

Note: USB storage device with sufficient storage capacity must be properly inserted prior to performing backup.

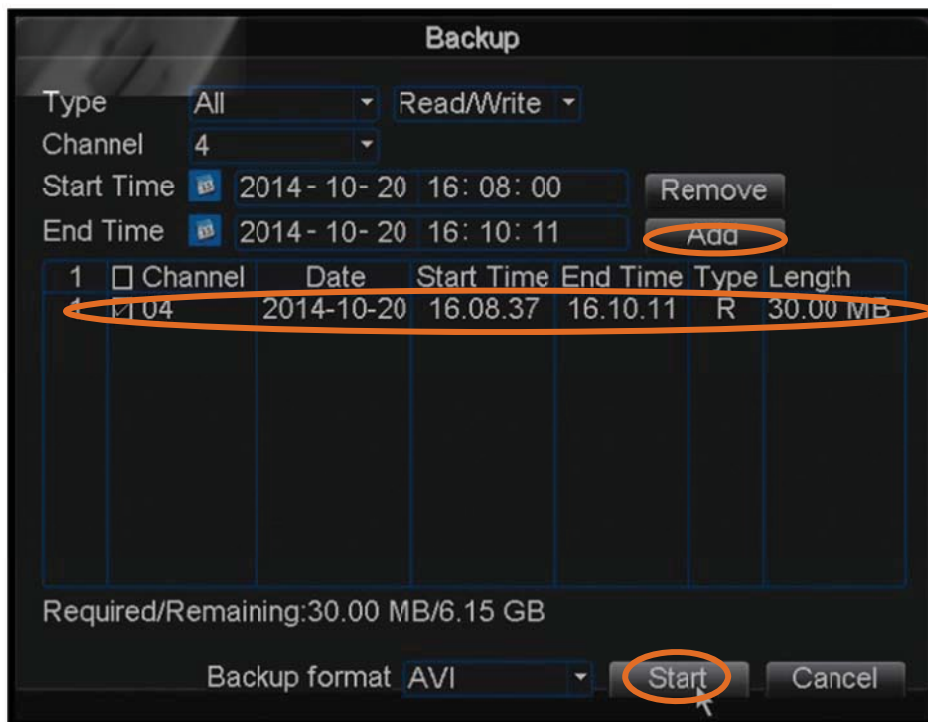
1) Goto 'Main Menu' → 'Record' → 'Backup'



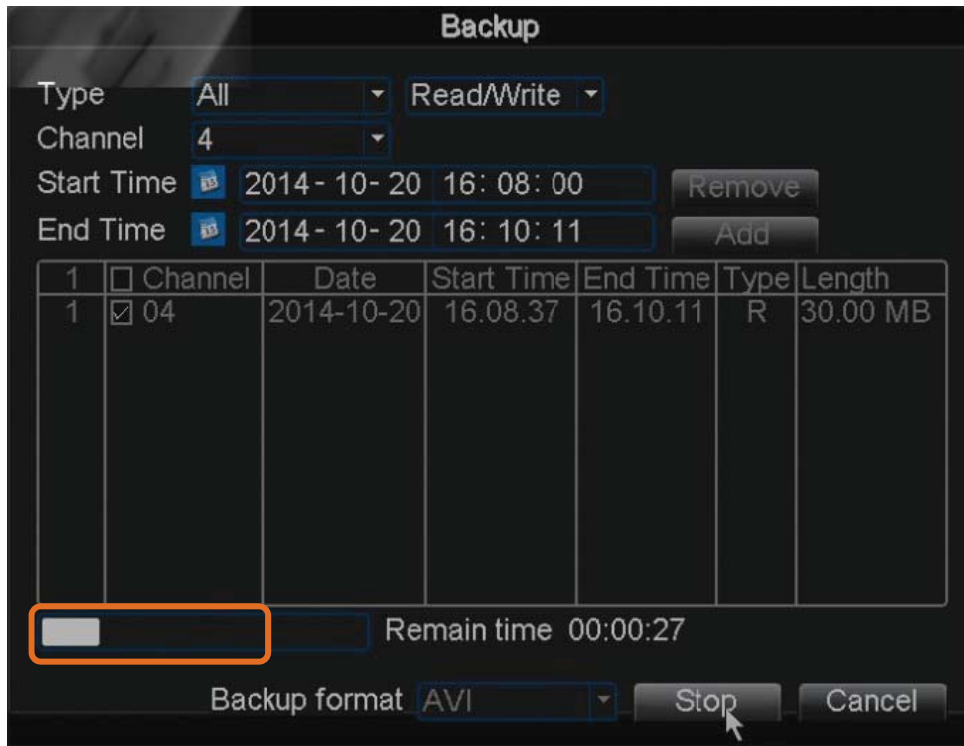
2) Once USB storage device has been detected, click 'Backup' button



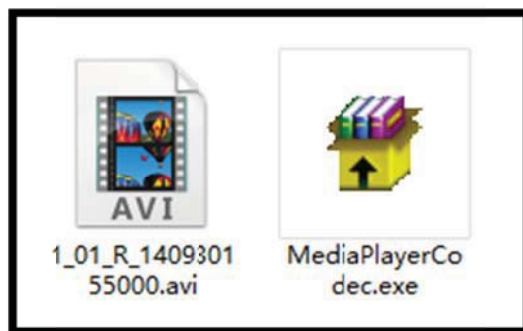
3) Select channel, time, and click 'Add'. When the corresponding document appear as selected (indicated by the tick), click 'Start'.



4) Progress bar appears during backup



5) Once backup is completed, install the media player software that comes with the backup file. Once installed, you may play the backup file with this media player.



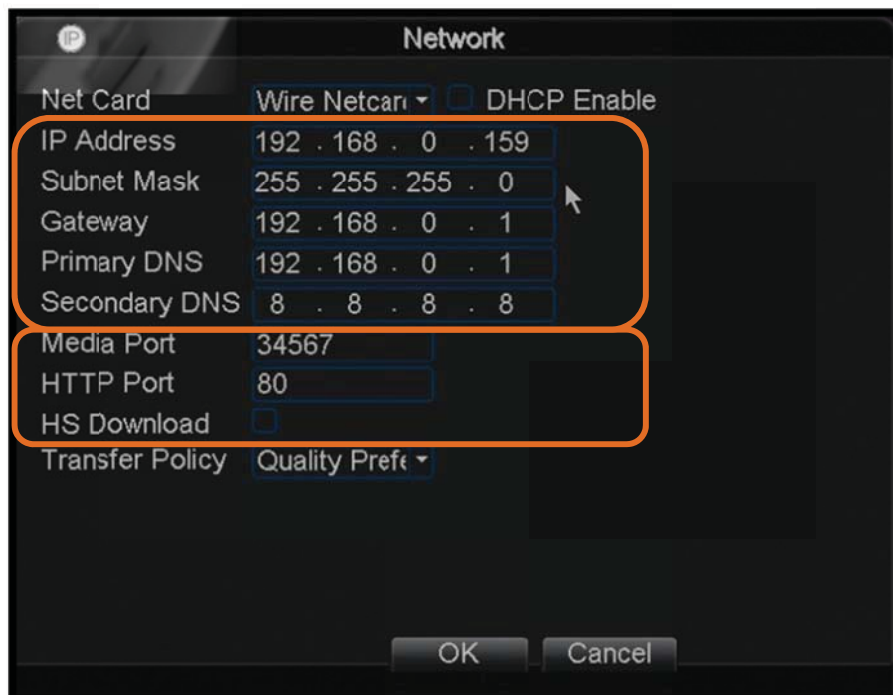
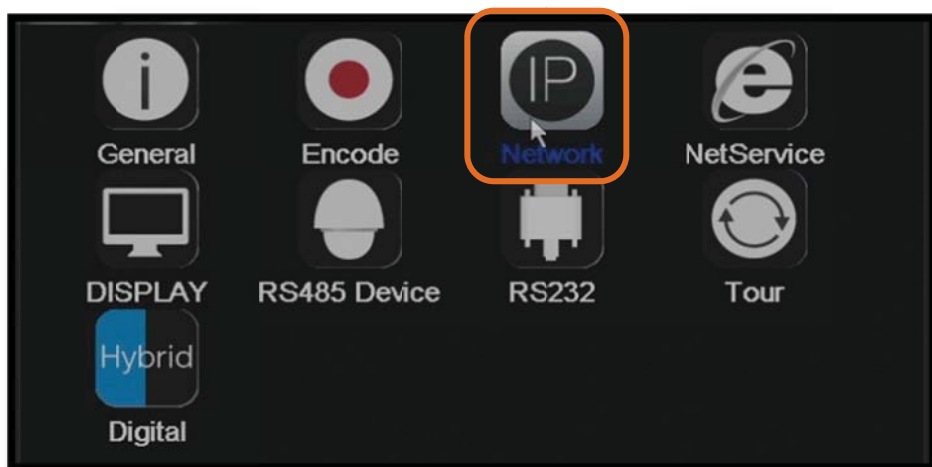
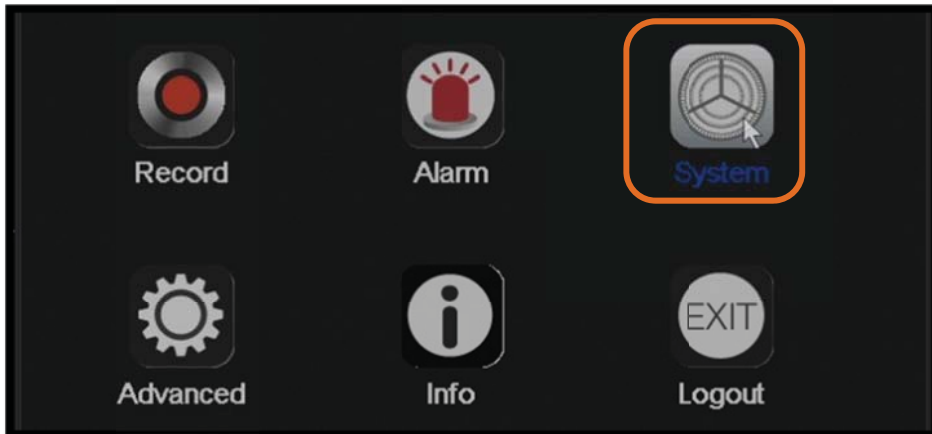
## 9 DDNS Settings

### 9.1 NVR IP address settings

1) Goto 'Main Menu' → 'System' → 'Network' to configure IP address

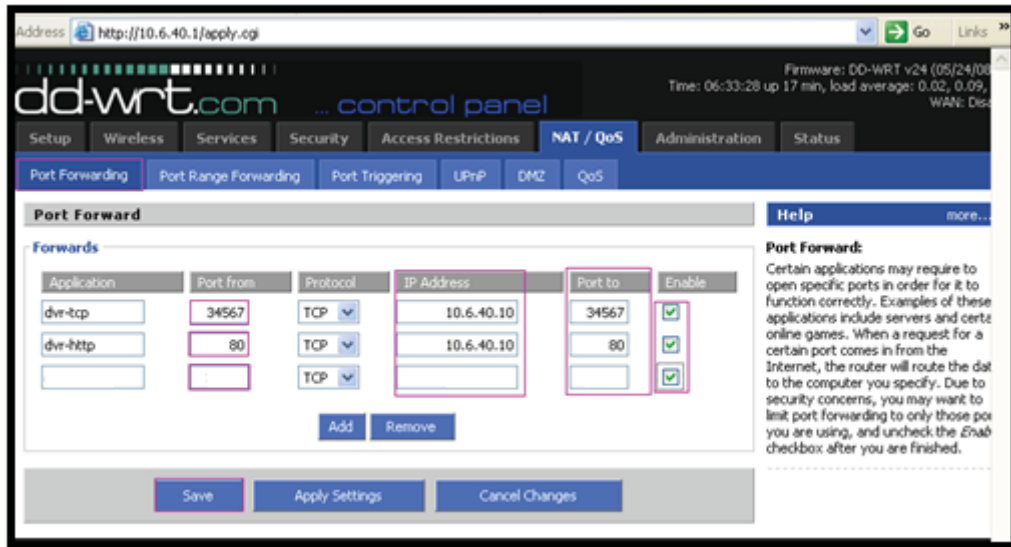


and port number.



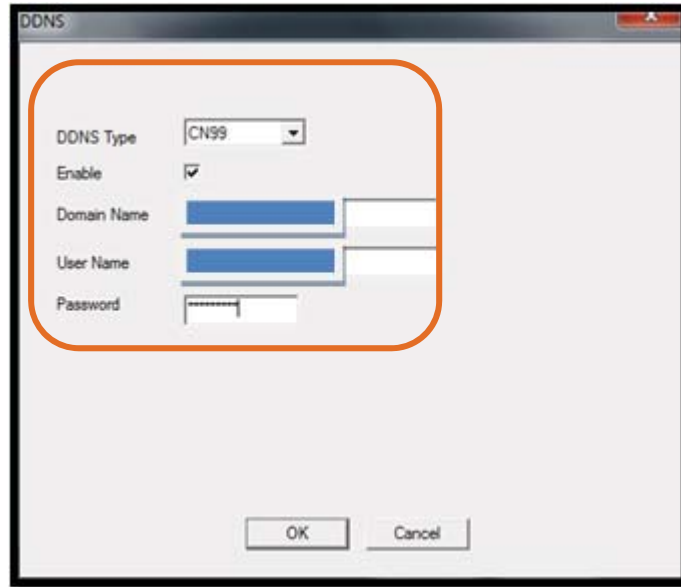
## 9.2 NVR port forwarding

Port forwarding for two ports of the NVR is required (HTTP Port: 80; Media Port: 34567)



## 9.3 NVR DDNS activation

- 1) In this example, we will use CN99 DDNS service. Visit 3322.org (<http://www.3322.org>) to register a domain name. .
- 2) Go to 'Settings' → 'System' → 'Network', double click 'DDNS', enter the domain name you registered.



## 10 Access via mobile app

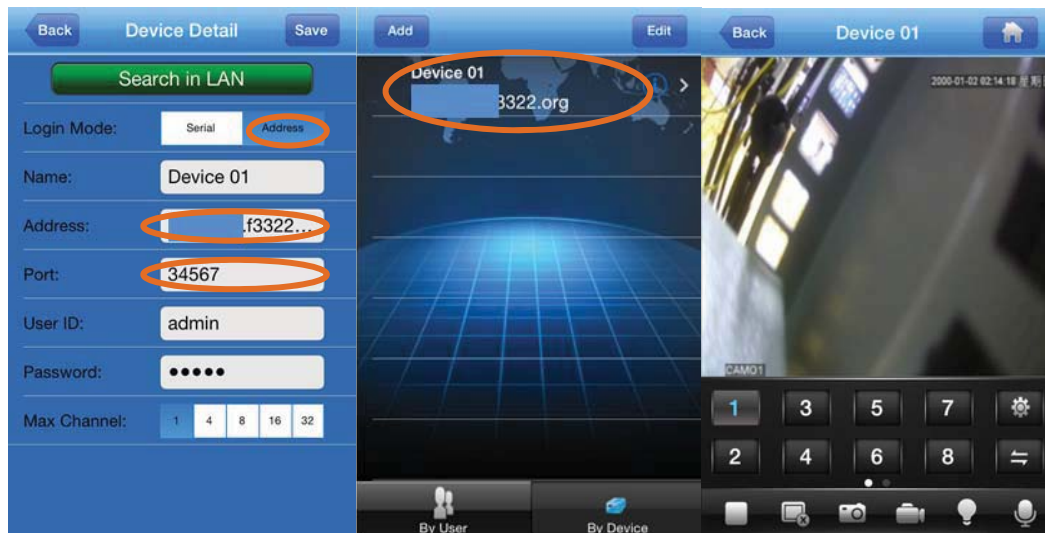
Below are instructions for installing and using the mobile app on iOS or Android systems.

App for iOS/Android: vMEyeCloud。



### 10.1 Connect via domain name

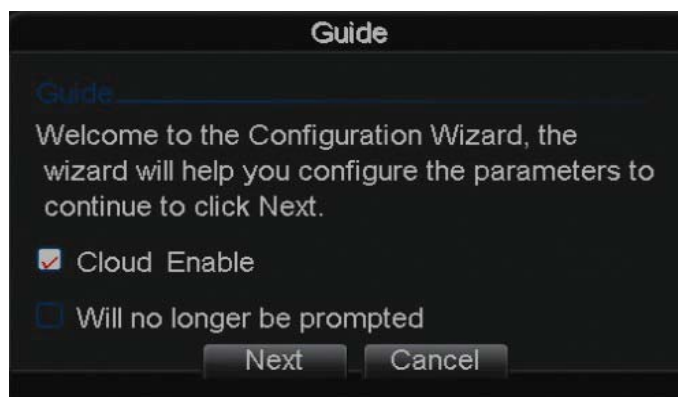
To allow access from an external network, it is necessary to have a correct IP address, the appropriate port forwarded (media port: 34567), and DDNS setup performed.



## 10.2 Connect via cloud networking

To allow access via cloud networking, first of all you will need to ensure that the IP address settings are correct to enable internet access. Next you will need to obtain the cloud networking serial number by scanning the serial number QR code at the NVR launch guide or by looking up system details.

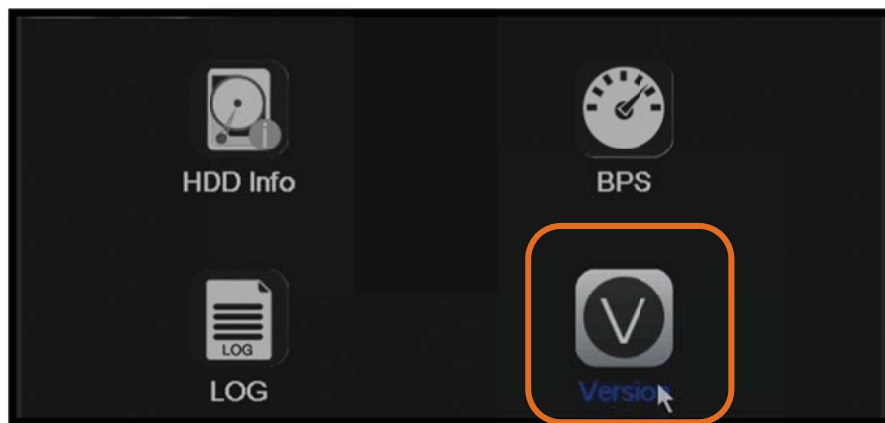
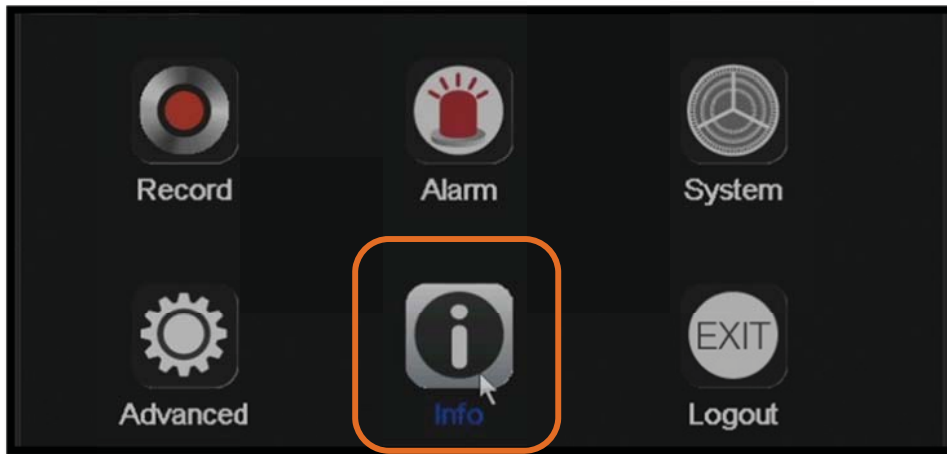
Select 'Cloud Enable', then click 'Next'.

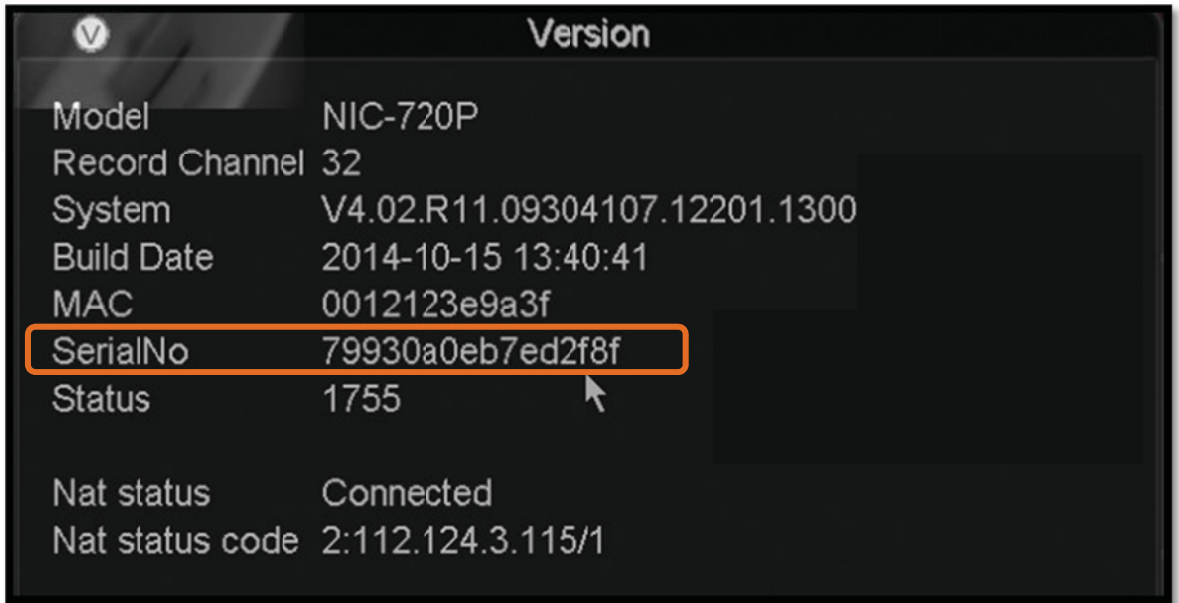


Scan the SN QR code.



OR goto 'Main Menu' → 'System' → 'Info' → 'Version', and look for the serial number





Note: iPhone – you may enter the serial number by directly scanning the QR code

Android – QR code must be entered manually

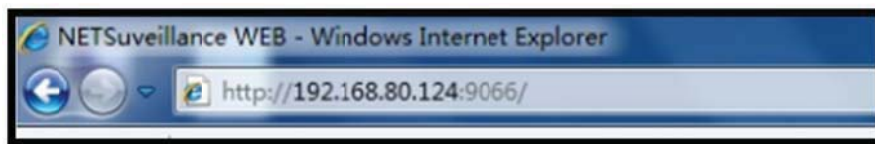


# 11 Remote Monitoring via IE

Remote monitoring via a browser will be enabled once the NVR host is switched on.

1) Open Internet Explorer

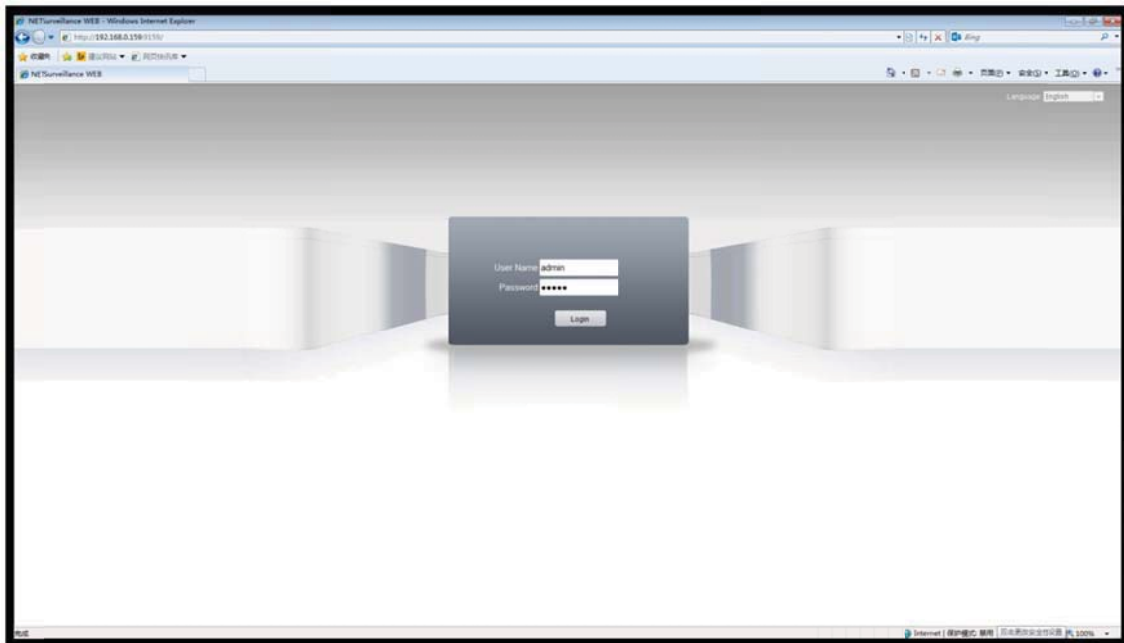
2) Enter the IP address or domain name of the NVR host at the address bar, as shown below:



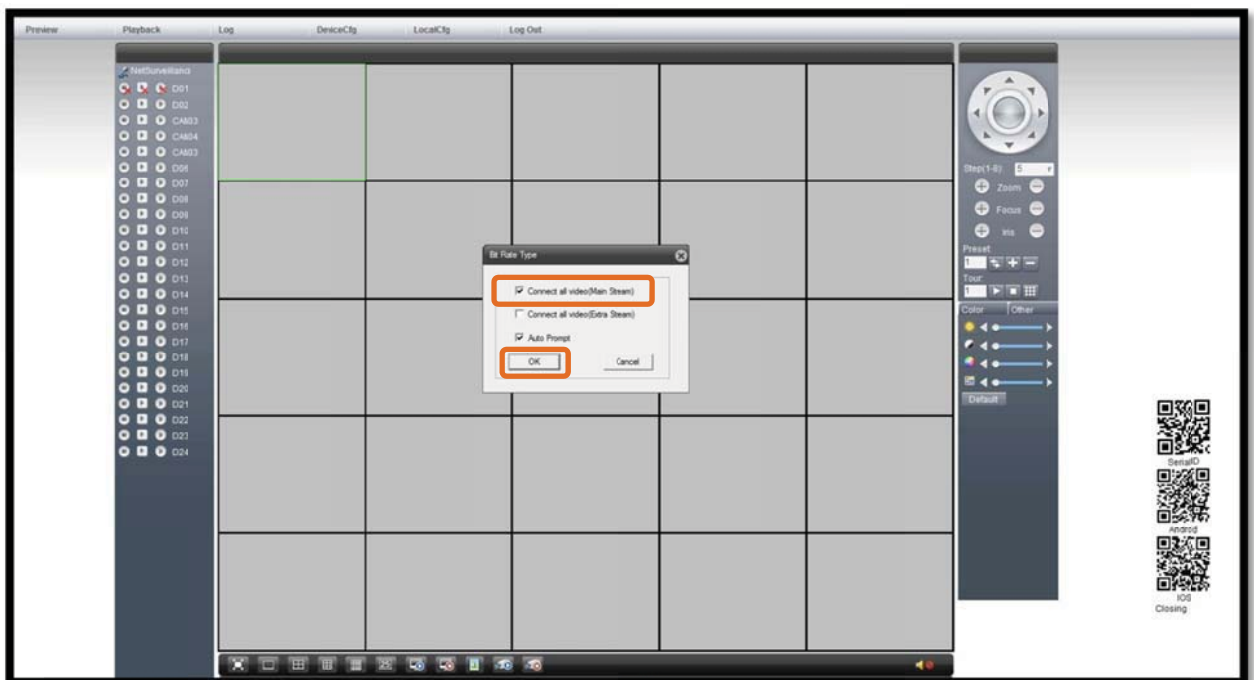
Upon opening the page, a popup message will appear prompting the user to download ActiveX control. Install ActiveX control to continue.

Note: You will need to download ActiveX control when connecting to NVR for the first time. Please modify IE settings to allow download of unsigned ActiveX controls. If the computer is connected to the Internet, please download ActiveX control manually.

3) Enter username and password of NVR host



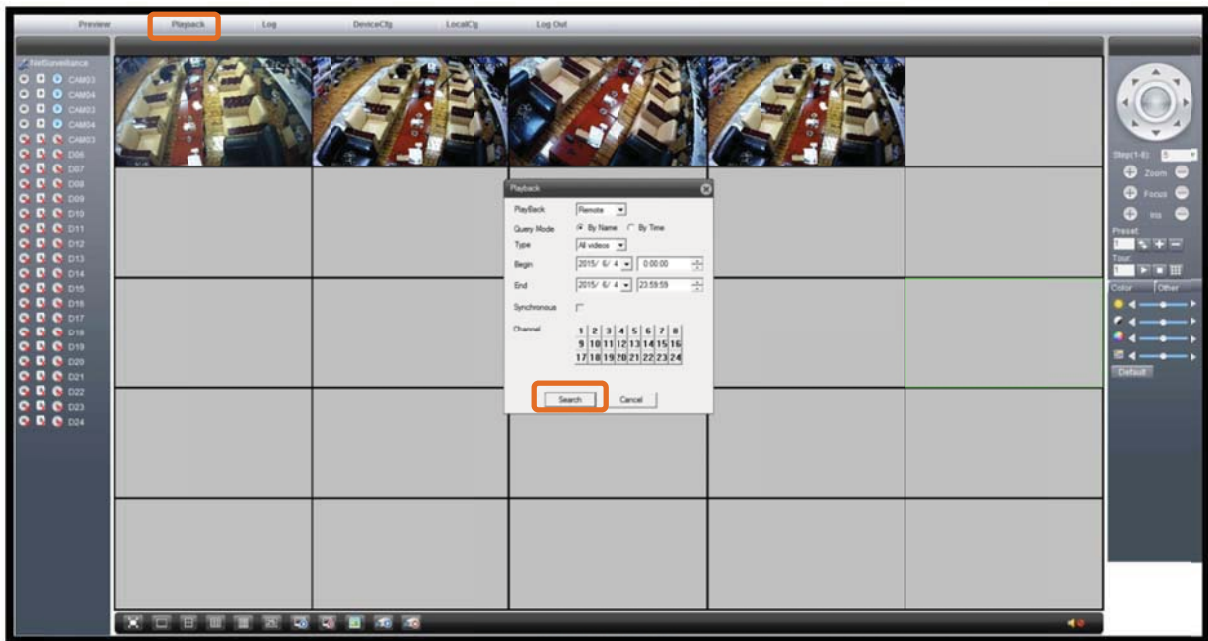
4) Click 'Login', for 'Bit Rate Type' select 'Connect all video (Main Stream)' for better quality viewing, click 'OK' to launch live monitoring screen.



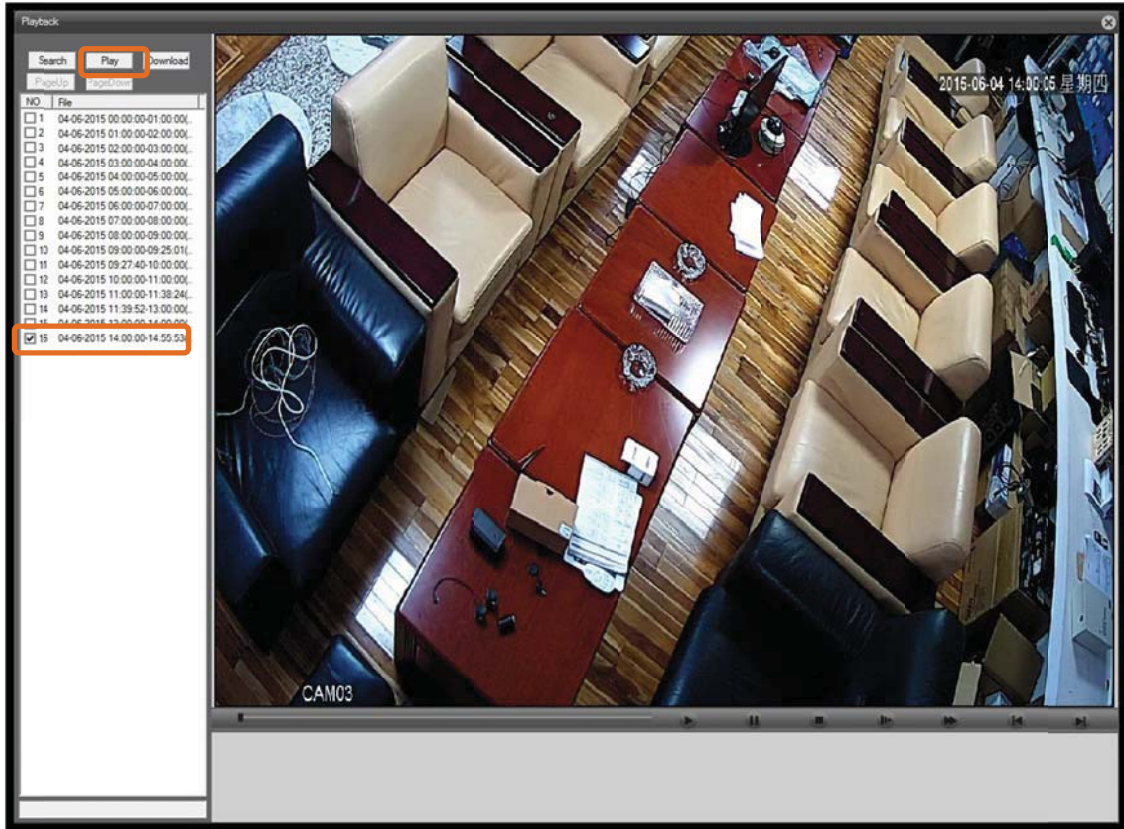




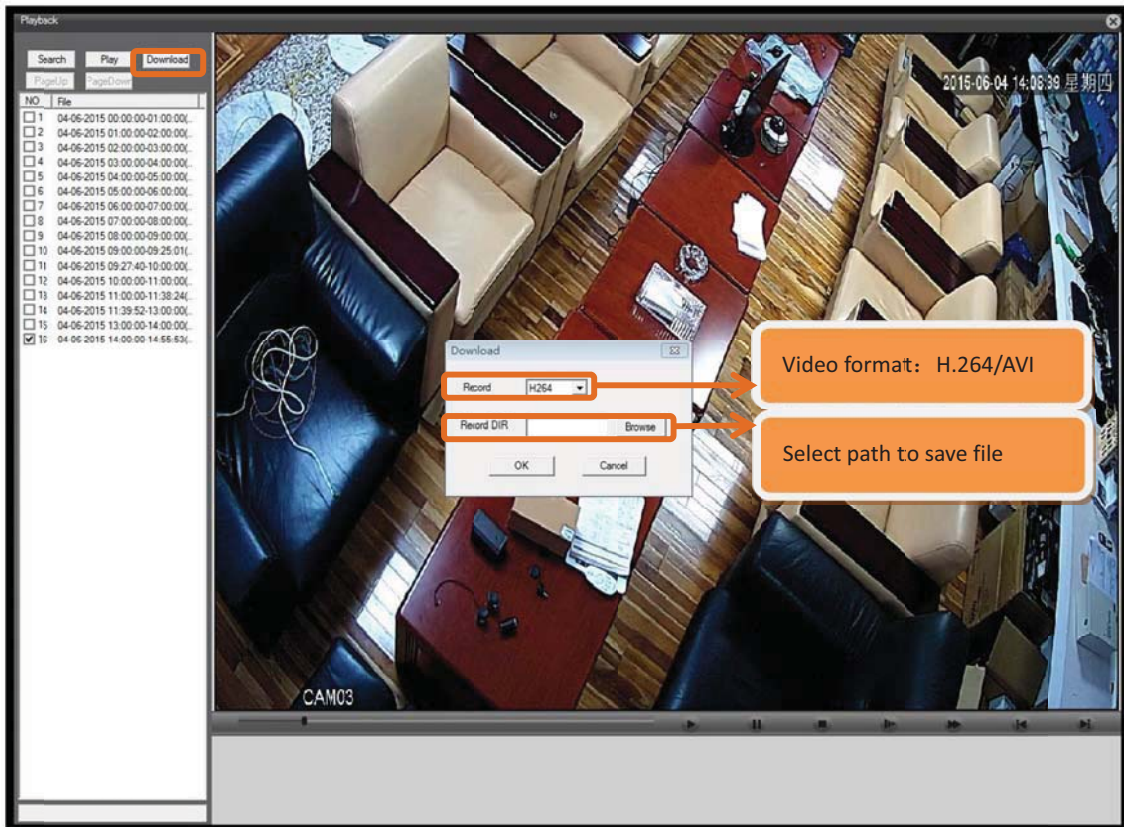
5) To view playback of a specific scene via IE, click 'Playback' to open search criteria, as shown below:








Enter search criteria, click 'Search' to open 'Playback' screen, select file, then click 'Play' to view playback.



6) Click 'Download' to backup playback video footage.



<b>List of Included Accessories</b>	
<b>Accessory</b>	<b>Qty(pcs)</b>
Mouse	1
Power adaptor	1
Screws for HDD	1
CD (user manual)	1

Model		BVN1004	BVN1008	BVN2016	BVN4032	BVN8032
Product Image						
System	Main Processor	Industrial embedded micro-controller				
	Operating System	embedded Linux				
	System Resources	Synchronous multi-channel recording, single-channel playback, multi-channel multi-user remote access, USB backup				
Display	Operating Interface	support 16-bit true color graphical menu interface and mouse operation				
	Display	1/4	1/4/9	1/4/9(8ch)/16	1/4/8/16/24/32	
Video	Video Standard	PAL, NTSC			PAL (625line, 50f/s) ; NTSC (525line, 60f/s)	
	Video Compression	H.264(High Profile)				
	Output	monitor: D1, VGA/HDMI: HD			VGA/HDMI: HD	
	Playback	1080P/D1	1080P/720P/960H/D1/HD1/CIF/QCIF	3M/1080P/720P	5M/3M/1080P/720P	5M/3M/1080P/720P
	Input	4*1080P/8*D1	8*1080P/8*720P/16*D1	4*3M/8*1080P/16*720P	8*5M/16*3M/24*1080P/32*960P	
	Motion Detection	Support				
Audio	Audio Compression	—			G.711A	
	Two-way Audio	—			Support	
Recording & Playback	Recording Mode	Manual > Alarm > Motion Detection > Timer				
	Local Playback	1080P (1ch) / D1 (4ch)	1080P (1/2 ch) / 720P (4ch)	3M (1ch) / 1080P (2ch) / 720P (4ch)	5M (2ch) / 3M (4ch) / 1080P (4ch) / 960P (8ch)	
	Search Mode	Time, Calendar, Events, Channel				
Interfaces	Disk Usage	—	Video: CIF: 4~5G per day per channel / D1: 8~10G per day per channel 960H: 12~20G per day per channel / 720P: 24~30G per day per channel 1080P: 40G per day per channel / Audio: 691.2M per day per channel	Video: CIF: 4~5G per day per channel / D1: 8~20G per day per channel 960H: 12~30G per day per channel / 720P: 20~50G per day per channel 1080P: 40~100G per day per channel / Audio: 691.2M per day per channel	Video: CIF: 4~5G per day per channel / D1: 8~10G per day per channel 960H: 12~20G per day per channel / 720P: 24~30G per day per channel 1080P: 40G per day per channel / Audio: 691.2M per day per channel	Video: CIF: 4~5G per day per channel / D1: 8~10G per day per channel 960H: 12~20G per day per channel / 720P: 24~30G per day per channel 1080P: 40G per day per channel / Audio: 691.2M per day per channel
	Storage	Local HDD, Network				
	Backup	Network, USB drive, USB writer				
Interfaces	Video Input	—			RJ45	
	Video Output	1ch BNC, 1ch VGA, 1ch HDMI			1ch VGA, 1ch HDMI	
	Audio Input	—			1ch RCA	
	Audio Output	1ch RCA				
	Alarm Input	—			16ch	
	Alarm Output	—			4ch	
	Network	1 RJ45 10M/100M adaptive Ethernet interfaces			1 RJ45 10M/100M/1000M adaptive Ethernet interfaces	
	PTZ control	1 RS485 port, support multiple PTZ protocols			1 RS485 port, 1 RS232 port, support multiple PTZ protocols	
	USB	2 interfaces				
	HDD	1 SATA interface (up to 4TB per HDD)	2 SATA interface (up to 4TB per HDD)		4 SATA interface (up to 4TB per HDD), 1 eSATA interface	8 SATA interface (up to 4TB per HDD), 1 eSATA interface
Wireless	—			3G, WIFI (via USB)		
General	ONVIF	Support				
	Power Supply	12V/2A	12V/4A		12V/6A	ATX power for DVR
	Dimensions	255mm(L)* 225mm(W)* 45mm(S)	350mm(L)* 295mm(W)* 45mm(S)		440mm(L)* 345mm(W)* 60mm(S)	442mm(L)* 430mm(W)* 91mm(S)