

# **NVR&IPCAM**

**(USER MANUAL)**

**(V1.0)**

**Thanks for choosing our products, please read this manual carefully before use!**

## NOTICE

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### Installation condition

- 1) In order to ensure your rights, please read this manual carefully before installation.
- 2) This machine is indoor equipment. In order to prevent a short circuit or shock hazard, do not place it in rain or wet environment.
- 3) If there is any solid or liquid in the machine, please disconnect the power at once, and ask the qualified technicians to check before restart.
- 4) It cannot be installed in excessive dust or mechanical vibration place. It cannot be installed near any heat sources such as radiators, air duct. Please put it in air circulation place.
- 5) It is a precision machine; almost no part can be repaired by user. Do not disassemble this product. Failure must be repaired by qualified technicians.
- 6) Please disconnect the power before connecting with other devices.
- 7) Please turn off and pull out the pug, If the machine is not be used for a long time,
- 8) Do not use the power which could not match the power adapter.
- 9) In project installation, connect the ground to avoid lightning damage to the main chip. If the monitor must be grounded, please avoid leakage damage to the machine.
- 10)** Please select high quality hard disk which could meet the working demand of NVR. Please purchase hard disk from regular merchants.

### Installation Instructions

- 1) The Manual is for reference only.
- 2) The products are updated without extra notice.
- 3) Please contact our customer service department for the latest procedures and additional documentation.
- 4) Description of doubt or dispute subject to the final interpretation of our company.

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# 1 Preparation

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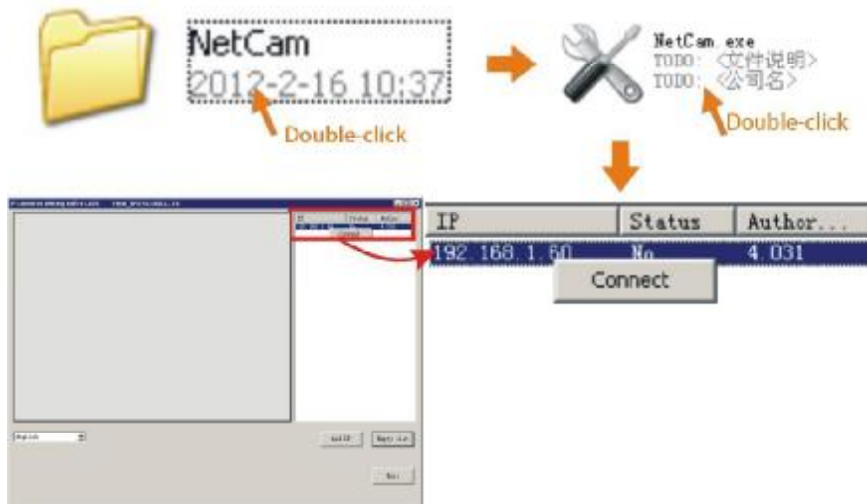
## 1.1 The topology



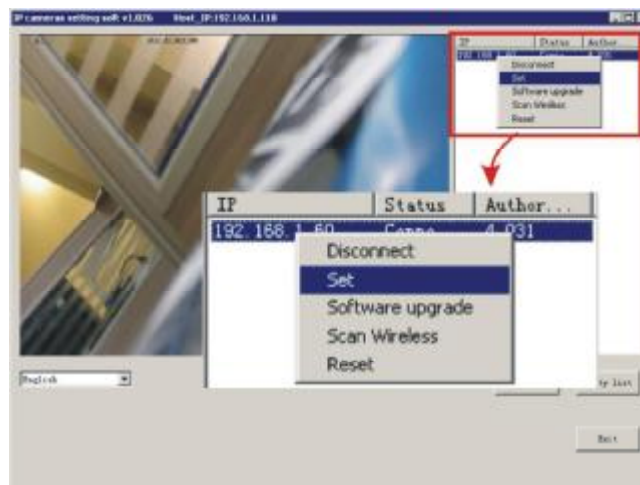
## 1.2 IPCAM&NVR connection settings

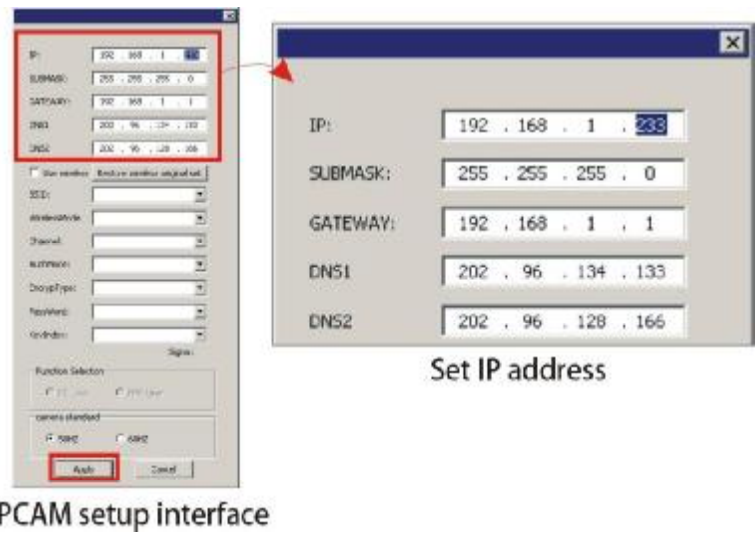
- IPCAM connected to PC via net cable, PC set to a fixed IP, PC IP could be set as 192.168.1.101, subnet mask 255.255.255.0, default gateway 192.168.1.1.
- Copy Netcam.exe application in the CD from PC to USB disk. It also could be download from <http://www.fab111.com:83>. Then run it.

- Press reset button and power on the IPCAM, NetCam software will show the IP: 192.168.1.60 thirty seconds later, and then release the button. Move the cursor to the IP and right click it, click “connect”, it will pop up the image; then right click the IP and select ”set” to set the IP. IPCAM will restart if the IP changed. If the network segment of the IPCAM and PC is the same, you could see the new IP 30 seconds later. If the network segments are different, it could not be connected.



You will see the below picture after connection.

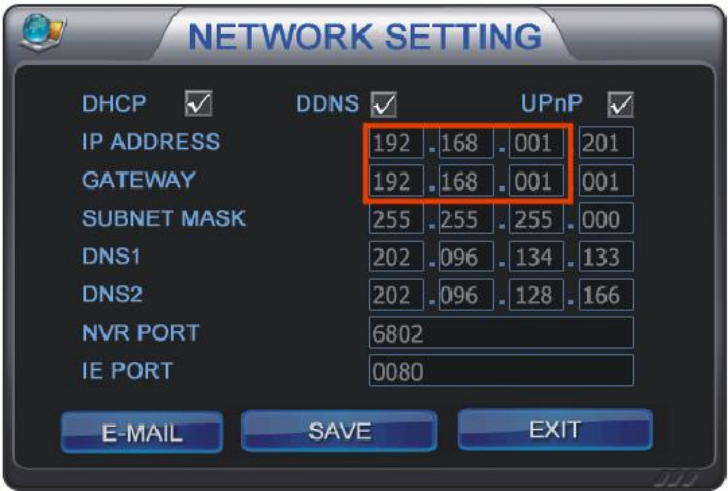




- The IP of IPCAM could be set in Camera setting menu in NVR.



- Log in Network setting menu of NVR via network remote client to check the IP of NVR and IPCAM in the same network segment.





When setting alarm information, the network segment of Router, IPCAM and NVR must be the same. NVR and Netcam software could not be connected to IPCAM at the same time.

### 1.3 Corresponds to the version of IPCAM&NVR

Steps:

- Open NetCam software in PC, when you see the IP, you could see the version of IPCAM.

IP	Status	Author...
192.168.4.204	Conne...	1.025
192.168.4.206	Conne...	2.027
192.168.4.222	Conne...	3.036
192.168.4.226	Conne...	4.036

- If the version of IPCAM is 4.036, then the version of NVR should be begin with 4. (Press INFO key in NVR front panel, it will pop up the INFO menu.); 1.\*\*\* is D1, 2.\*\*\* is 960H, 3.\*\*\* is 720P, 4.\*\*\* is 1080P.

INFORMATION

HDD QTY	1	
TOTAL CAPACITY	149	G
REMAIN CAPACITY	059	%
COVERAGE	000	%
BAD AREA	000	G
RECORD START TIME	2011/08/11 11:40:00	
RECORD END TIME	2011/08/11 11:50:00	
DDNS	www.fab111.com:45K0030@	
NVR IP	192.168.001.201	NVR PORT 6802
CLIENT IP		
SOFTWARE Ver.	Feb 15 2012 10:37:48 / 4.045	

EXIT

## 1.4 Interface

### 1.4.1 IPCAM interface



**Full version interface:**

- 1) Power interface, 12V 1.5A.








### 1.4.2 NVR front panel and interface

- **A. Front panel:**

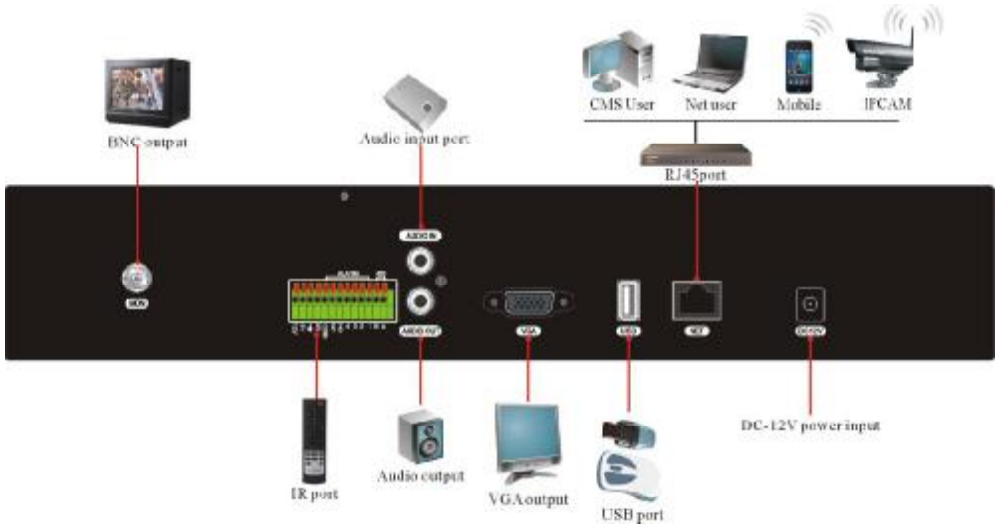


name	icon	Function
NO. keys	0-4	Switch channels; input password.
INFO/5	INFO/5	Press it to popup information menu; press it again to enter into Log list; input password.
16Split screen/6	16/6	Press it to enter into four split screen, press it again to nine split screen; input password.
Record/7	7/7	Record; input password
Play/8	8/8	Press it to pop up search menu, select the file to play; press it in play mode to pause; input password.
Stop/9	9/9	Stop play or record; input password.
Menu/0	MENU/0	Menu; exit from sub-menu; input password.
Exit	ESC	Exit; press it in live mode to hide the mouse icons.
Mode light	IR LOCK HDD POWER	IR (remote controller), LOCK (front panel lock), HDD, POWER
Direction and confirm	▲ ▼ ◀ ▶	a) “▲ ▼ ◀ ▶” direction keys; control the direction of PTZ; press left/ right key to play fast forward/ rewind in play mode;



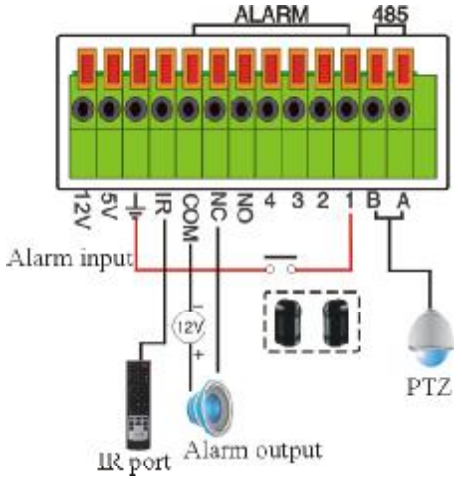
		b) “  ”confirm. c) “  ” press left/ right key to play fast forward/ rewind in play mode; d) “  ” “  ” switch cameras in play and live mode. The cameras after four should be switched via these two keys.
USB2.0		Connect to USB device to upgrade, backup; connect to USB mouse.
Power		Power on/off
IR receiver		Receive the signal of remote controller. It could not be covered.

• **B. Rear panel**



- 1) RS-485; ALARM; IR.
- 2) Audio in/out
- 3) VGA
- 4) USB: Connect to USB device to upgrade, backup; connect to USB mouse.
- 5) Net port.
- 6) BNC output
- 7) Power

• **A. Alarm interface:**



4 channel alarm in, 1 channel alarm output.:








The above picture shows a typical alarm in /out connection way. In order to make the NVR work well, it must connect to the ground as the above picture.

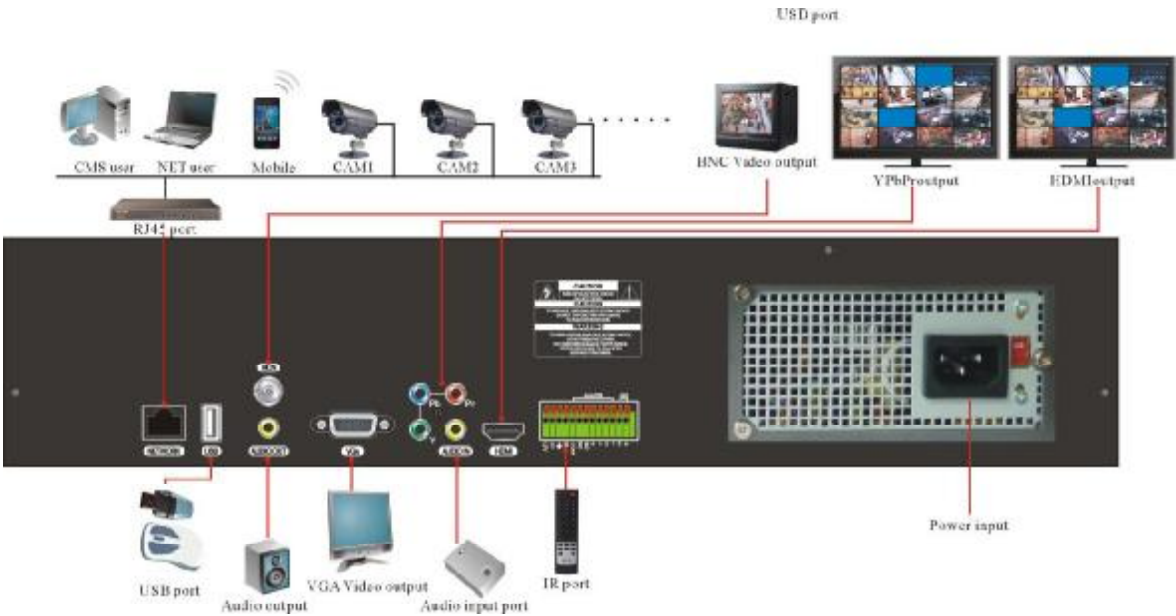
- B Front panel**



NAME	ICON	Function
NO. keys	0-9 X+	a) Switch channels; b) Input password; c) X+ with "0~9" could switch from 10-19
Record		Record
Play		Press it to pop up search menu, select the file to play; press it in play mode to pause.
Stop		Stop play or record.
INFO		Press it to popup information menu; press it again to enter into Log list.
Split		Switch the split screen.
Menu		Menu; exit from sub-menu; input password.
Exit		Exit; press it in live mode to hide the mouse icons.
Z+/Z-	Zoom+/-	Press it to zoom in/ out in PTZ mode.
F+/F-	Focus+/-	Press it to make focus+/-
I+/I-	Iris+/-	Press it to make Iris+/-

PTZ		Press it to control speed dome.
Light	POWER, HDD, REC, ALARM, NET, PTZ, LOCK, IR	They will be on in working mode.
Direction & confirm		a) “▲” “▼” “◀” “▶” direction keys; control the direction of PTZ; press left/ right key to play fast forward/ rewind in play mode; b) “↵” confirm. c) “◀” “▶” press left/ right key to play fast forward/ rewind in play mode; a) “▲” “▼” switch cameras in play and live mode. The cameras after four should be switched via these two keys.
USB2.0		Connect to USB device to upgrade, backup; connect to USB mouse.
Power		Power on/off
IR		Receive the signal of remote controller. It could not be covered.

• **B Real panel:**










• **B alarm interface:**

The same as A alarm interface.

# 1.5 Remote controller

Icon	Function
------	----------



Power		Press it to turn off the NVR.
Audio		Press it to pop up audio setup menu.
NO. keys	0-9	Same as front panel.
Lock	LOCK	Lock the NVR.
IR	IR	Turn on/off IR.
MENU	MENU	Enter in to menu.
退出	ESC	同面板的“ESC”键
Direction & confirm		Same as front panel.
INFO	INFO	Press twice to popup information menu. Press three times to popup log list.
Split		Switch the split screen.
Record		Record
Play/pause		Play and pause.
Stop		Stop play or record.
PTZ control	I+, I-	Press it to make iris+/-.
	F+, F-	Press it to make focus+/-.
	Z+, Z-	Press it to make zoom +/-.
	Auto	Control speed dome rotate automatically.
PTZ	PTZ	Press it to control PTZ.

## 1.6 Mouse

Move the cursor to mouse icon will popup the prompt.









Operation	Function
Left click	① Select or cancel“√/”. ② Input password in login interface. ③ Select each function. ④ Full screen in live mode. ⑤ Switch channels. ⑥ Switch the items.
Right click	① To popup the mouse icons. ② Switch channels and items.
Move cursor	① Move the cursor. ② To pop up the mouse icons and prompt.
Drag the mouse	To select the mark area in camera settings. To select motion detection area in motion alarm. Digital zoom in live or play mode in single screen.
Mouse wheel	Switch the items in menu.

## 1.7 Live view

### 1.7.1 Live mode icons


Turn on the NVR to view the live image. It will show the date, time and camera name and record mode in the screen.

Note: It need to press record key to start schedule record.

Icon	color	Description
	Red M	Under motion recording
	Red S	Under alarm recording.
	Red L	Video loss during recording
	Red T	Under timing recording.
	Green I	Waiting for event to activate recording
	Green L	Video loss during waiting recording
	Yellow ?	Have video input but no recording
	Yellow L	No video input and recording.

### 1.7.2 Mouse tools

**Mouse tools in top-right of the screen:**

Press INFO key or right click the mouse to pop up the mouse tools. “”exit/ close the mouse tools.



Switch the users.,  lock. Click it to log in via input password.





Remote controller,  No signal of remote controller.




Control audio.











Information, check the record mode, HDD mode and network mode;  HDD is full,  no HDD.

**Mouse tools in bottom of the screen:**

Right click the mouse to popup the mouse tools. Press 【ESC】 key or click “”to exit. Take 32ch NVR as example.



Icons	Name	Description
	Split	Switch the split screen.
	Record	Record
	Play	Click it to popup search menu.
	Stop	Stop play or record.
	Menu	Enter into menu.
	PTZ	PTZ control.
	SEQ	Switch the channels automatically/ sequence.
	Power	Click it to popup the power prompt.

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## 2 Operations

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### 2.1 Turn on the NVR

Please check the voltage is fit for the NVR.

Please check the connection with other device is right or not.

Please insert the power line.

The power light is red after the NVR is power on.

## 2.2 System setup

- System time setup

Select "SYSTEM" in main menu to enter into SYSTEM SETUP interface.



The system menu of 720P/1080P resolution :



- **Frequency:** 50/60Hz, 50Hz for PAL, 60Hz for NTCS.
- **HDMI output:** { VGA(1280×1024); VGA(800 ×600); HDMI; YPbPr }. It should be corresponding to the monitor.
- **Mouse display:** To select CVBS or HD monitor.

## 2.3 Camera setup and area mark setup



### 2.3.1 Change the camera name

Move the cursor to the letters, left/click the mouse to change the camera name.

### 2.3.2 Area mark setup

Drag a black square to hide some privacy part.

Operation way:

Step one select the channels.

Step two drag the mouse to setup the square area.

#### Setup the left/right/up/down border

Left Click the mouse in the mark area to cancel the mark. Setup the place of left/right/up/down to modify the area.



## 2.4 Alarm setup

Example for alarm setup:

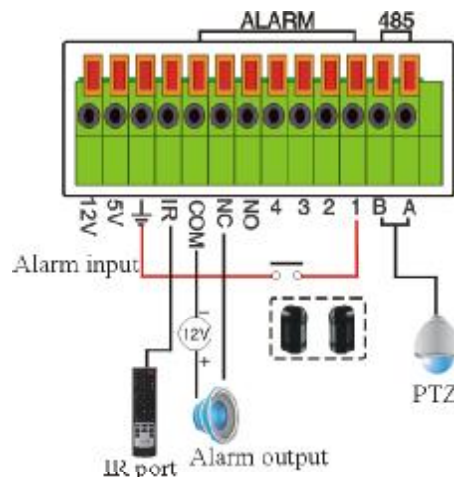
Channel 2

22:20 to 7:10next day.

It will alarm when the sensor feel somebody passed. The buzzer in the NVR will beep and send email.

### Operation steps:

#### Step one, connection



**Note**, If connect the alarm for NVR, please connect the alarm in port of the IPCAN with the ground; or it will continue to alarm when schedule alarm happened. If connect the alarm for IPCAM, then please connect the alarm in port of the NVR to the ground.

#### Step two, email setup

Firstly confirm the network connection of the NVR is well.

Then please follow the instruction: Menu→network setup→email

**E-MAIL SETUP**

TIME INTERVAL	10	Min	
E-MAIL SERVER ADDRESS	smtp.163.com		
E-MAIL SERVER PORT	0025		
USERNAME	dvrmail		
PASSWORD	*****		
PASSWORD CONFIRMATION	*****		
RECIPIENT ADDRESS	*****@163.com		

1	2	3	4	5	6	7	8	9	0	A	B	C	D	E	F	G	H	←	C
I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	↑	

TEST

SAVE

EXIT

- 1) Time interval: To set the time interval for sending email. It should be in denomination of minutes.
- 2) Email server name: To set the email server for sending email.
- 3) Email server port: To set the email server port. Generally the SMTP port is 25.
- 4) User name: It's the email user name.
- 5) User password: It's the email password.
- 6) Password confirmation: To confirm your email password.
- 7) Receiving address: It's the email address.

Operation way: moving mouse cursor to the each box and left click the mouse to edit.

You could click "TEST" for testing. Please make sure the NDS is right in network setup.



*If the test email is failed, please check the setup of sending email in the web. It must open SMTP service for the email.*

### Step three, schedule setup.

Menu-->schedule setup,

	START TIME	END TIME	ALARM TYPE
SEGMENT1	00:00	07:00	MOTION
SEGMENT2	07:01	22:19	TIME
SEGMENT3	22:20	24:00	MOTION
SEGMENT4	00:00	00:00	TIME

- **Camera:** select a channel or all channels.
- **Date:** set the date for recording. It could be set four time segment.
- **Time segment:** set the recording type. (time, motion, alarm, motion + alarm)

### Step four, alarm setup



*It no need alarm for motion, just set for sensor alarm; or the alarm will happened frequently.*



Step five, set recording area and sensitivity for motion recording.



**Sensitivity:** Select number 1-50 for motion sensitivity. Generally speaking, numerical value higher, the sensitivity better.

**Detection area:** Select the motion detect area. Drag the mouse to select the area. When it detects there is movement in this area, the boarder color will turn red.

#### Step six, start recording

Press record button to start. If you didn't press the record button, there won't be alarm and record when motion happened.

## 2.5 Record operation

### 2.5.1 Preparation for recording

Connect all relevant device and power on for them. Confirm that there are video in and audio in.

Press INFO key to check the hard disk information. If the left capacity of the HDD is not enough, please change it or open the overwrite function in HDD management menu.





Enter into schedule setup menu to set the relevant setup.

Enter into record setup menu to set record parameters.




- **Resolution:** 352×288 (CIF) PAL, 352×240 (CIF) NTSC  
D1:704×576 (D1) PAL, 704×480 (D1) NTSC;  
960H: 960×576 (960H) PAL, 960×480 (960H) NTSC;  
720P: 1280×720 (720P);  
1080P:1920×1080 (1080P)。  
The system will restart after the resolution changed.
- **Quality (image):** To set the image quality at high, middle and low.
- **Frame rate:** To modify the frame rate per second. 25fps (PAL) or 30fps (NTSC)
- **Audio:** To set audio recording on and off.

### 2.5.2 Recording start and stop

- Start recording:: press **【】** key in front panel or use mouse to click the icon “” in mouse tool bar to start record. Once start recording or HDD begin to write, the HDD indicate light will turn on.
- Press **【】** key in front panel or use mouse to click the “” icon or press **【ESC】** key to stop record.

## 2.6 Playback

Click “” icon to enter recording search interface. You could search the recording file and backup the file into another device. Also you could search for a video file to playback.



You could see the play status prompt in the bottom of the screen.

**PLAY**  : normal play    **PAUSE**  pause    **STOP**  stop

**FAST**  **x2** / **FAST**  **x4** / **FAST**  **x8** / **FAST**  **x16** / **FAST**  **x32** / **FAST**  **x64**

the speed of fast forward

**BACK**  **x2** / **BACK**  **x4** / **BACK**  **x8** / **BACK**  **x16** / **BACK**  **x32** / **BACK**  **x64**

The speed of fast rewind.

**Operation way:** in play mode, press **【>>>】** / **【<<<】** key once/twice/three times.....six times to play faster and faster. Then press **【>>>】** / **【<<<】** again to play normally. Press **【>>】** and **【<<】** to play forward or rewind one frame.

## 2.7 Backup



- Select backup device

USB / CD(500M) / DVD 1.5G / MINI CD(180M)

**USB backup:** Less than 30G. If the usb disk could not be read, please format it firstly.

**USB format way:**

Insert the usb disk into US port of NVR.

“menu” → “HDD management”





Select the disk name: disk A, then click “format”.

- **Select backup channels** (4 channels max).
- **Select backup time:** select the begin time and end time.
- **Calculate:** To calculate the video file's capacity which you want to backup. Before your backup, please try to proceed this operation

*Note: not support mobile HDD backup.*

## 2.8 Audio setup

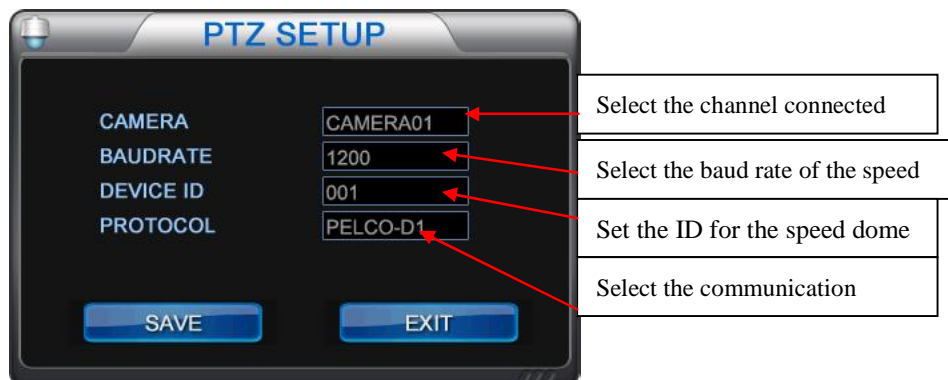
Press **【AUDIO】** key in front panel or  in the remote controller or click “” to enter into audio setup menu.




- **“monitor”** : Mute, client, CH1-CH9 optional.
- **Broadcast:** NVR transfer the live audio to client or cameras via pickup device. If client/ some channel is selected, the audio will be transfer to the client/ some channel. is selected.

## 2.9 PTZ setup

(1) Set the parameters in PTZ setup menu firstly.











(2) After speed dome setup, please enter PTZ setup. Press the [PTZ] key or click “” to enter it.

Select the channel which is connect with speed dome



Then it will display "PTZ: CAM01 SPEED:16 DATA:00" in the screen. It means DVR is under PTZ status now. Press [PTZ] or [ESC] again to exit PTZ interface. When DVR is under PTZ status, it will display the mouse tool bar as below:









Icons	Name	Description
	Direction key	to move speed dome up, down, right and left.
	Rotate	To make speed dome rotate automatically. Press it again to stop rotating.
	zoom	Zoom in and zoom out
	preview	To check the preset data already saved.
	Set	To make preset setup.
	Close	Shut off PTZ and exit PTZ interface.

- **Modify parameters:**

You could use mouse or remote control to modify the preset data. Select the item which you want to modify by press [SPOT] key on remote control or click the item directly by mouse. Then modify the data by left/right click by mouse.

- **Preset setup:**



- a) Select image point in selected camera by “   ” keys. Set a number for the image in “DATA”, such as 01, then click “” to finish the setup.
- b) To view of image point which has been saved, you could select the corresponding number in “DATA”, then click “” to view.

## 2.10 User setup

Before enter USER SETUP interface, you should enter USER LOGIN interface and type the correct password first.



- **User name:** To select administrator and users. There are 4 user name , ADMIN0, USER01, USER02 and USER03. ADMIN0 is default one.
- **Password:** To set user's password. The default password is 000000 for ADMIN0, 111111 for USER01, 222222 for USER02 and 333333 for USER03. And password is changeable by users.
- **Authority setup:** As administrator, you could enter USER SETUP to grant normal user authority to make setup.

Unlock setup: If the DVR was locked, please click the "🔒" on right top of screen. Then it will popup the interface of USER LOGIN. Type the user name and password to unlock the DVR. Then the icon "🔒" will turn to blue "🔓".

## 2.11 User shift

Please enter USER LOGIN interface to shift the user and type correspond password.

## 2.12 Night view setup



Enter into camera setup:



- **Day light perception:** Images switch to day mode when the light intensity is greater than the value, the image is color. Default one is 234.
- **Night light perception:** Images switch to night mode when the light intensity is smaller than the value, the image is white and black. Default one is 202.

## 2.13 Turn off the NVR

Soft turn off: exit from all operations and back to live mode. Press "🔌" key in front panel or remote

controller or click the mouse icon “” to popup turn off prompt, select OK to turn off the NVR., press “” key three seconds to restart the NVR.

Hard turn off: Pull the power line directly.

Abnormal crash: If the NVR restart five times failed in one hour, it will keep crash, the buzzer will beep. Please cut off the power and power on again.

## 2.14 The status of HDD

Press INFO key in live mode, you could see the following icons,



The system information and HDD is full.




: No HDD.

## 2.15 IE connection

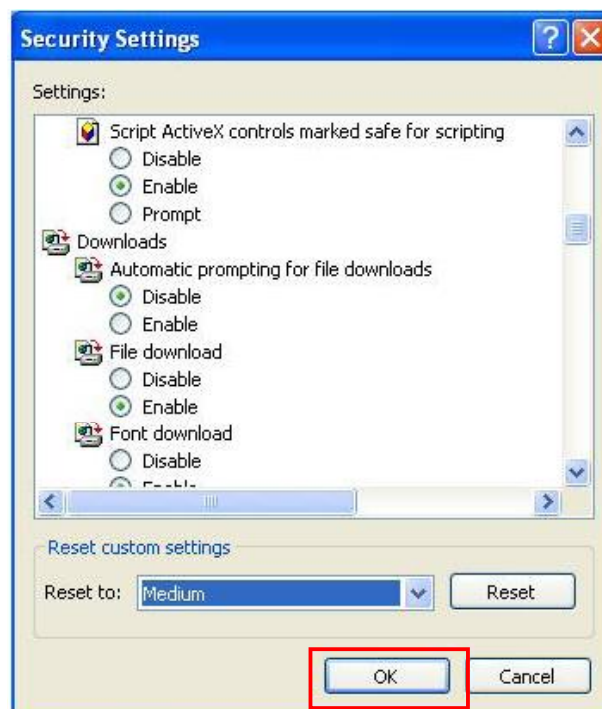
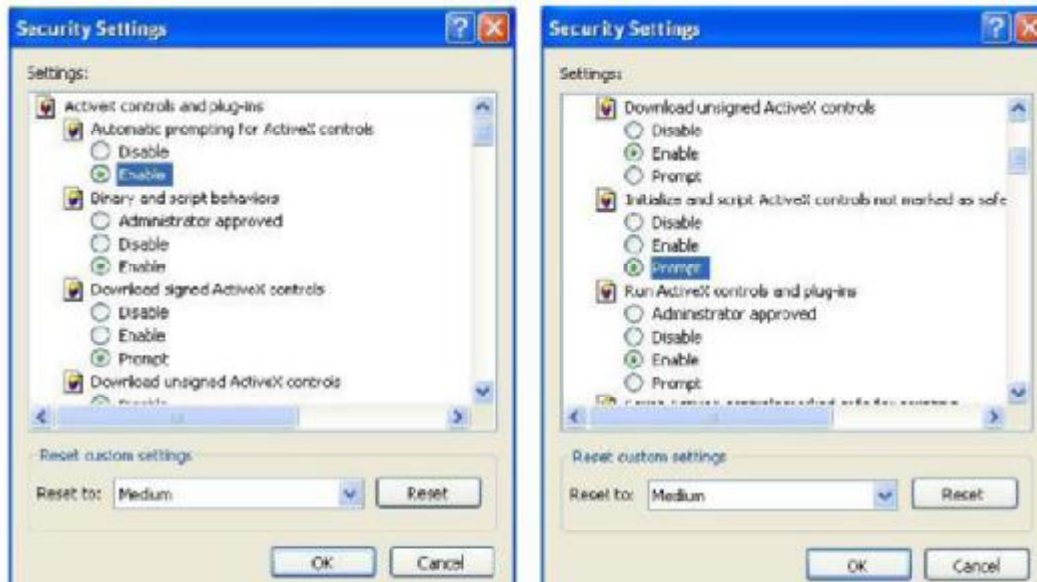
Operation steps:



**Step one:** click security, Right-click the icon “”, then click “properties” → “security” in the following dialog box.



**Step two, check all items in ActiveX, set them as “enable” or “prompt”.**



**Step three,** IE ActiveX download address: <http://www.fab111.com:82/>, or download it from the NVR IP, e.g.: <http://192.168.1.220:82/>, 82 is the IE port set in Network menu. it need to do port forwarding in the router when download IE ActiveX controls from WAN.

**Step four, it will popup login interface after the IE ActiveX controls was download.**

There are four login way.

- a) NVR LAN IP with DVR port, e.g.: 192.168.1.220:6802.

WAN connection:

Firstly confirm the WAN IP in the router is the real and useful IP. It must to do port forwarding for the NVR port in the router. Then check the setting is successful or not in <http://www.yougetsignal.com/tools/open-ports>.

- b) Router domain name with DVR port. E.g.: avdf.dyndns.com:6802. It need to apply for a domain name in the web and fill in the domain name in the router.
- c) Router WAN IP with DVR port. E.g.: 20.30.40.50:6802. If the IP is fixed, this way could be used.
- d) Free supply domain name with NVR number. E.g. [www.fab111.com:27K0030](http://www.fab111.com:27K0030). Please select DDNS in network setup menu of NVR. Then you could check the DDNS information in INFO menu. Please check the DNS setting. If there is “@” following the NVR number, the NVR connect to the server successfully.

A screenshot of the NVR login interface. It features a light gray background with a darker gray header area. The header contains the text 'IP/PORT' on the left and a text input field containing 'www.fab111.com:27K0030' on the right. Below the header, there are two more text input fields: 'Username' containing 'USER03' and 'password' containing '\*\*\*\*\*'. Under the password field, there is a checkbox labeled 'Remember username and password'. At the bottom right, there is a green 'Login' button with white text.

Click the left top link or <http://www.fab111.com:83> to download the latest CMS and iMac CMS. CMS support strong function.

## 2.16 NVR networking example

1. Connect the NVR net cable with the PC. Type in <http://www.google.com> in IE address bar. Check the WAN connection is well or not. Then you could see the page.



2. Confirm the router IP is the real and useful IP. Type in <http://www.whatismyip.com> in the IE address bar. The IP shows here must be the same as the router IP. If no, it is not the real IP.

Internet Port	
MAC Address	00:1B:2F:61:2D:A5
IP Address	218.18.189.80
DHCP Client	
IP Subnet Mask	0.0.0.0
Domain Name Server	202.96.134.133

It is Router interface

3. Set the IP item as “DHCP/DDNS” in network setup menu in NVR. If the DHCP in the router is open, the NVR will get the IP from the router automatically. Please change the IP, it should out of the range of DHCP.

### LAN IP Setup

#### LAN TCP/IP Setup

IP Address

IP Subnet Mask

RIP Direction

RIP Version

It is Router interface

192 . 168 . 1 . 5  
255 . 255 . 255 . 0

None

Disabled

☒ Use Router as DHCP Server

Starting IP Address

Ending IP Address

NVR IP address must  
be out of this range.

192 . 168 . 1 . 100  
192 . 168 . 1 . 200

**NETWORK SETTING**

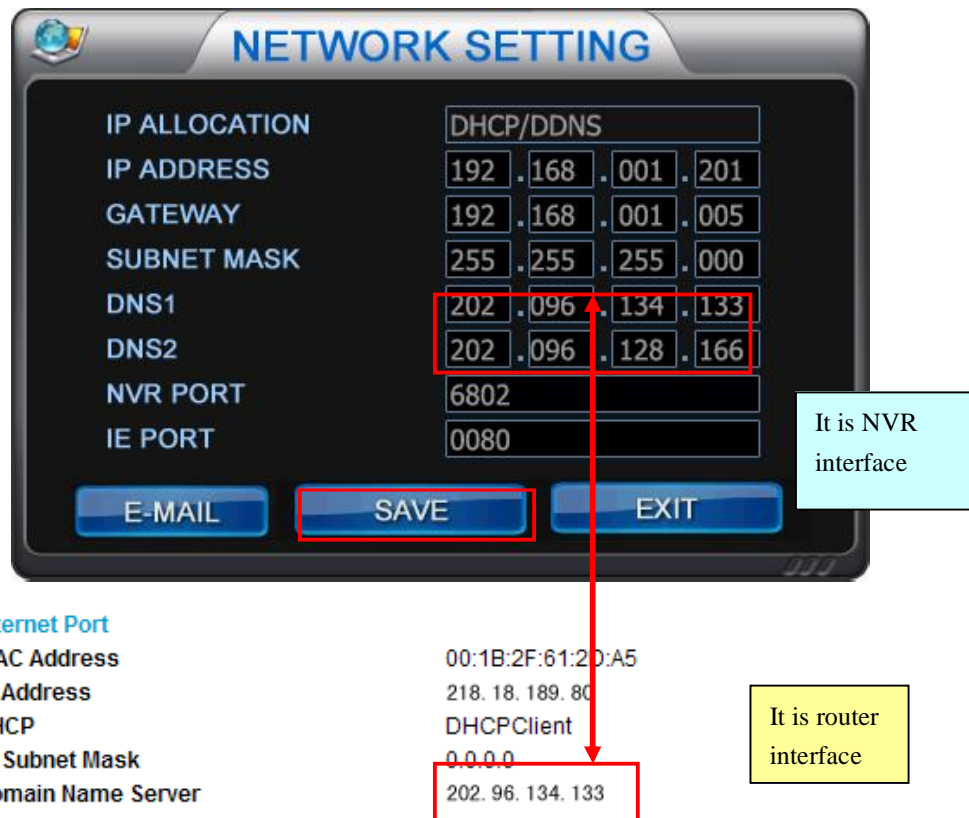
IP ALLOCATION	DHCP/DDNS
IP ADDRESS	192 . 168 . 001 . 201
GATEWAY	192 . 168 . 001 . 005
SUBNET MASK	255 . 255 . 255 . 000
DNS1	202 . 096 . 134 . 133
DNS2	202 . 096 . 128 . 166
NVR PORT	6802
IE PORT	0080

E-MAIL SAVE EXIT

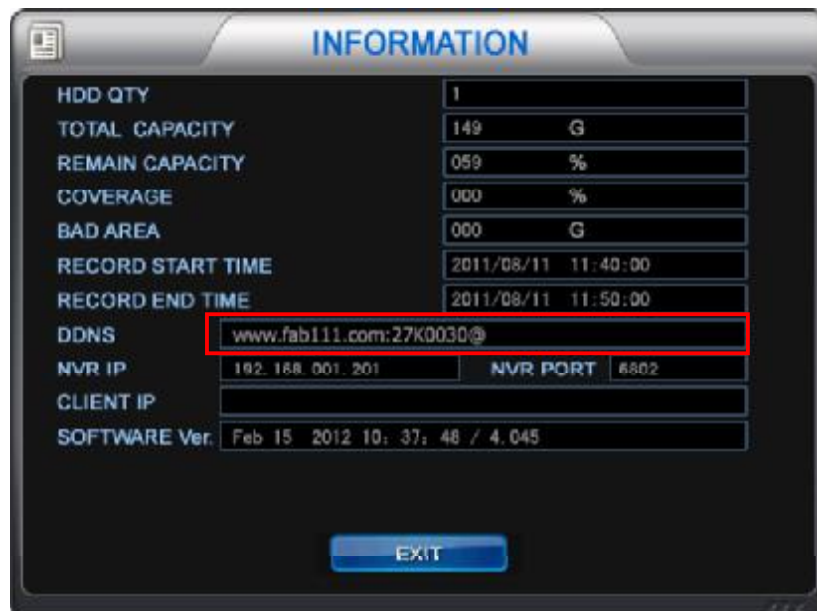
It is NVR interface

Check DNS IP, it should be the same one in the router.





- Open INFO menu in NVR. It will show [www.fab111.com:27K0030@](http://www.fab111.com:27K0030@) in DDNS item. If no @, the connection between NVR and server is failed. Please exit and enter into the INFO menu again after one minute. If there is no @ again, please check the DNS setting of NVR is right or not.



- Set port forwarding in router. Set different port for different NVR and port forwarding separately.



### Port Forwarding / Port Triggering

Please select the service type

☒ Port Forwarding

☐ Port Triggering

Service Name

AIM

Server IP Address

192

168

1

Add

#	Service Name	Start Port	End Port	Server IP Address
1	NVR1	8802	8802	192.168.1.201
2	NVR2	8805	8805	192.168.1.202
3	NVR3	8801	8801	192.168.1.203
4	NVR4	8808	8808	192.168.1.204

Edit Service

Delete Service

Add Custom Service

It is Router interface

Open UPnP function in the router to fulfill the port forwarding of NVR automatically. It is suggested to change the port in network setup menu after UPnP is open. And set auto port forwarding at once after save the port. Click the refresh icon to see the latest IP and port.

### UPnP

☒ Turn UPnP On

Advertisement Period (in minutes)

30

Advertisement Time To Live (in hops)

4

#### UPnP Portmap Table

Active	Protocol	Int. Port	Ext. Port	IP Address
YES	TCP	86	86	192.168.1.195
YES	UDP	6709	6709	192.168.1.129
YES	TCP	6709	6709	192.168.1.129
YES	TCP	6802	6802	192.168.1.151
YES	TCP	80	80	192.168.1.151

Apply

Cancel

Refresh

You could check the port forwarding successful or not in <http://www.yougetsignal.com/tools/open-ports/>.

The screenshot shows the 'you get signal' Port Forwarding Tester interface. The 'Remote Address' is set to 218.18.189.80 and the 'Port Number' is 6802. A red box highlights these fields and the 'Check' button. Below, a message states 'Port 6802 is open on 218.18.189.80', which is highlighted with an orange box. A red arrow points from this message to the 'IP Address' field in the router configuration table below, which also contains the value 218.18.189.80. A yellow box next to the table states 'It is Router interface'.

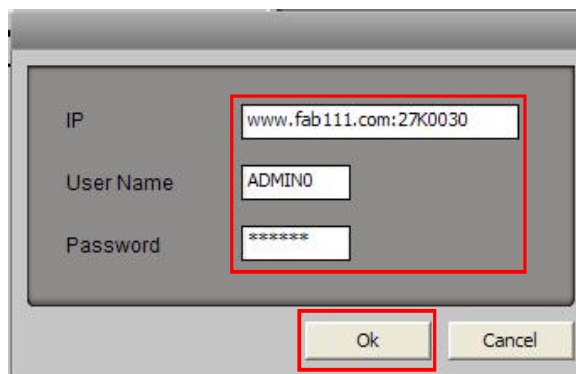
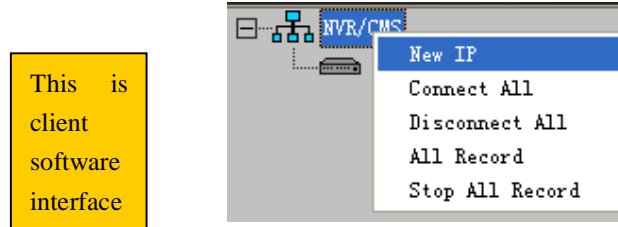
Internet Port	
MAC Address	00:1B:2E:61:2D:A5
IP Address	218.18.189.80
DHCP	DHCP Client
IP Subnet Mask	0.0.0.0
Domain Name Server	202.96.134.133

6. Download the latest CMS software in <http://www.fab111.com:82/>.

The screenshot shows the website <http://www.fab111.com:82/>. A link 'Download new PC client (need more time)' is circled in red. Below is a login form with fields for 'IP/PORT' (pre-filled with www.fab111.com:27K0030), 'Username', and 'password'. There is a checkbox for 'Remember username and password' and a 'Login' button.

7. Open the MS client software, type in the domain name, NVR number, user name and password to test the connection. If the connection is failed, please check with LAN IP.

Open the client software, right click NVR/CMS, select new IP, add it and connect it.



*Note: the setting of router may not support WAN IP connection in local network, then the connection via domain name and NVR number will also fail.*

## **FCC Caution.**

### **§ 15.19 Labelling requirements.**

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

### **§ 15.21 Changes or modification warning**

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

### **§ 15.105 Information to the user.**

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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