

Grabador cámaras en red (NVR)

Manual usuario



Modelo: FN3004H Color: Negro



Modelo: FN3004H Color: Blanco



Modelo: FN3104H/FN3109H

Version:V1.3

www.foscam-online.es

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Nota de seguridad

Las cámaras Foscam y NVR recomiendan prácticas de seguridad para tener a salvo su privacidad. Es recomendable periódicamente modificar la contraseña de acceso. La cual puede ser 8-10 caracteres incluyendo números, letras, símbolos y combinaciones.

Es recomendable periódicamente actualizar el firmware para tener la mejor experiencia con su producto.

Prefacio

Gracias por adquirti nuestro producto. Este documento principalmente se centra en la instalación y configuración del NVR en red local.

Con grandes prestaciones y su entorno, el NVR puede utilizarlo tanto para uso personal, como negocios, tiendas, industrias,.. y cualquier lugar con camaras IP donde desee realizar grabaciones

Modelo

Este manual es aplicable a los modelos

- NVR FN3104H
- NVR FN3004H
- NVR FN3109H

Valores iniciales

La cuenta administrador por defecto de acceso es usuario admin y contraseña vacía

Nota

 Las funciones indicadas en este manual solo solo de referencia. Aunque alguna puede variar en función de la versión firmware de su NVR.

Instrucciones de seguridad

Este capitulo le indica como utilizar el producto correctamente para evitar algún daño o perdida de información. Siga las instrucciones para su correcto funcionamiento.

Entorno de instalación

Compruebe el entorno esta bien ventilado, no es un entorno sucio. Es recomendable utilizar un estabilizador de corriente si la corriente no es estable.

Compruebe si utilizar otro adaptador alimentación sea el mismo voltaje del incluido.

La distancia entre NVR y la pared debe ser al menos 6cm para tener una ventilación.

Precaución

Instale el producto horizontal, no lo instale en vertical o inclinado. No toque el adaptador alimentación con las manos húmedas o mojadas para evitar cortocircuito

No arroje líquidos o metales sobre el NVR.

El NVR no contiene disco duro ni otro soporte de almacenamiento. Es necesario instalar un disco duro interno o conectar un almacenamiento, ya que de otra forma no podrá realizar grabaciones.

Apague el NVR correctamente para evitar daños en las grabaciones. No desconecte el producto directamente de la alimentación.

Compruebe la alimentación del NVR corresponde con su modelo.

1 Overview

1.1 Información del producto

Los NVR recibe señal de video en alta calidad que es transmitida por las cámaras IP. Este producto puede realizar visualización en directo, grabación, reproducción, permitir acceso remoto y hacer una copia de seguridad.

1.2 Principales funciones

Visualización

Puede acceder al NVR o desde un navegador en PC o en monitor.

Vista previa multi pantalla

Multi-pantalla quiere decir que puede ver varias ventanas en una única en su pantalla al mismo tiempo.

Grabación

El NVR permite grabación y almacenamiento de ficheros en un disco duro (HDD). Estos ficheros puedes ser consultados o visualizados mediante el entorno en su red local.

Las grabaciones pueden clasificarse entre programas, manuales y por alarma (ordenadas de menor a mayor prioridad). Si selecciona mas de dos tipos de grabación solo realiza una grabación de la que sea mayor prioridad.

Grabación programada

Puede seleccionar el horario de grabación y activar o desactivar la grabación en este periodo.

Grabación manual

Puede activar o desactivar la grabación anualmente en el canal desee.

Grabación en caso de alarma

Las grabaciones alarma se clasifican en: alarma entrada salida, grabación por detección movimiento

- Alarma entrada-salida (FN3004H no permite esta función)

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Tras activarse una alarma externa. Si es activación la entrada de alarma en el canal, al detectarse aviso de alarma exterior se activará el proceso de grabación.

- Grabación en caso detección movimiento

Tras detectar movimiento si la opción de movimiento esta activada, se realizará una grabación.

📙 Nota

Si la hora del NVR y de la cámara son diferentes, el NVR se basará en la hora del NVR

Reproducción

Puede reproducir videos almacenados en el disco duro ya sean grabaciones programas, manual o en caso de alarma. Puede ver en una única pantalla o 4 pantallas con reproducción simultanea. En 1080p solo permite una pantalla.

Alarma

Alarmas incluyen entrada-salida y detección de movimiento

C Entrada-salida alarma (FN3004H no permite esta función)

Si una salida de alarma esta conectada a la entrada de alarma del NVR, tras ocurrir un aviso de alarma y ser enviado al NVR, puede configurarse el NVR realice una acción como realizar una grabación, enviar un email, subir a un FTP.

C Alarma por detección movimiento

Puede configurar el canal desee para si detecta movimiento genere una alarma. Cuando un objeto se mueva en el horario indicado y en la zona de la imagen, se activará una alarma y el NVR podrá grabar, también es posible emitir una salida de alarma (excepto FN3004H) o enviar un email, o subir imágenes a su servidor FTP.

Manejo de cámaras IP

Puede buscar las cámaras IP se encuentren en su misma red local desde I NVR y añadirla al canal desee.

Manejo disco duro

Cuando el disco duro emita una excepción (disco duro lleno, no detecte disco duro otro error) el NVR emitirá un sonido de alarma.

Cuando el disco duro este lleno puede configurar detener la grabación o sobre escribir borrando las imágenes más antiguas.

Copia de seguridad

Puede sacar una copia de los archivos almacenados en el disco duro y a través de una copia de seguridad copiar mediante USB a un almacenamiento.

Otras funciones

- C Permite identificarse para acceder
- C Permite manejar a través de un entorno con el ratón
- Permite manejar mediante mando a distancia (solo FN3104H)
- Puede acceder mediante tres niveles: visitante, operador y administrador. Los derechos varían según quien acceda.

1.3 Información de interés

Nombre	Configuración recomendada	
Disco duro	Se requiere un disco duro de velocidad 7200 rpm o superior	
Monitor	Se recomienda una pantalla equivalente a 16:9 y resolución superior a 1280 x 720	
Cámara IP	Recomendamos cámaras IP Foscam compatibles ONVIF u otras marcas ONVIF	
Red	Tarjeta de red 10/100M o superior	
Navegador web	Este producto es compatible navegadores 32bit como Internet Explorer 8 y versiones posteriores. No es compatible navegadores 64bits Internet Explorer. Tambien es compatible Safari, Mozilla	

1.4 Descripción de los iconos

 (\cdot) En el modo de ver vídeo aparecen iconos en la parte derecha y en pantalla completa:



: El disco duro esta lleno y la grabación se ha detenido.



No se ha detectado disco duro en el NVR. O el disco duro tiene un problema.

 (\cdot) En el modo de visión aparecen iconos en la derecha para cada canal:



NVR esta grabando de la cámara IP



: La alarma se ha activado

El icono kan la parte derecha de la ventana quiere decir salir e este nivel para regresar al nivel superior. (

1.5 Funciones comunes

Iniciar NVR

Conecte la alimentación con el interruptor de la parte trasera (excepto FN3004H). El indicador alimentación LED se encenderá en color verde indicando recibe alimentación



Si el indicador frontal permanece apagado compruebe esta conectado a la alimentación correctamente.

Apagar el NVR

Existen dos formas de apagar el NVR:

 (\cdot) Apagar el NVR con el mando a distancia (solo FN3104H).

Pulse y mantenga pulsado el botón POWER durante 3 segundos con el mando a distancia y el NVR se apagará

- (\cdot) Dispone de dos formas de apagar desde el entorno:
 - Después de acceder hacer clic con el ratón en Shutdown desde el menú.

- Seleccionar Menu -> System y hacer clic en Shutdown

A continuación puede apagar desde el interruptor trasero y comprobará como el led frontal se apaga.

I Nota:

Evita apagar la unidad directamente con el botón trasero. Especialmente durante las grabaciones

Reset

Puede hacer un reset para volver a los valores iniciales de fábrica. Para ello puede utilizar cualquiera de los siguiente métodos:

- Pulsar botón reset pulse y mantenga pulsado durante 3 segundo con el equipo encendido para volver a los valores iniciales.
- C Desde entorno: Acceda Menú → System y haga clic en Factory Reset desde el menú.

 Entorno: Pulse
 (Parameter Configuration) > System Management > Factory Reset. Y se mostrará una pantalla para hacer el reset

2 Producto

2.1 FN3104H/FN3109H

2.1.1 Contenido del paquete

Cuando reciba su NVR, compruebe el contenido y si el NVR tiene algún desperfecto aparente.

Verifique el contenido esta completo de acuerdo con los siguientes componentes.

Para finalizar abra el NVR y compruebe los cables de conexiones.

• NVR	• CD
 Mando infrarrojo (solo FN3104H) 	• Batería (solo FN3104H)
Adaptador alimentación	Tarjeta de garantía
Cable Ethernet	Bolsa con tornillos
Ratón USB	
Cable de datos y alimentación para disco duro	Guía de instalación

El contenido no incluye disco duro ni cámara IP.

- Recomendamos utilizar discos duros Seagate / Western Digital y una velocidad superior a 7200RPM.
 No utilice un disco duro con función de desconectado automático.
- C Es recomendable utilizar cámara IP Foscam ONVIF, aunque otras cámaras ONVIF también son compatibles.

2.1.2 Instalar disco duro

Antes de utilizar por primera vez instale el disco duro.



- C Antes de instalar el disco duro (HDD), verifique esta desconectada la alimentación del NVR.
- C Localice los guantes anti estáticos en el paquete.
- 1.Quite la cubierta del NVR con los tornillos traseros y laterales.



2. Conecte el final de cable de datos y alimentación desde la placa madre del NVR hasta el disco duro.



3. Instale el disco duro en el fondo de la carcasa con los tornillos incluidos para fijarlo en su posición.



4. Vuelva a poner la cubierta del NVR con los tornillos.



2.1.3 Estructura del producto

Parte frontal



Icono	Nombre	Descripción
PWR	Estado de alimentación	El indicador se pondrá en color verde tras recibir alimentación
HDD	Indicador disco duro	Led en color rojo: no esta instalado o no es detectado
		Parpadeo verde: el disco duro esta escribiendo. El NVR esta grabando.
		Led verde encendido: el disco duro es normal. No esta r ealizando grabación.

Panel trasero



Icono	Nombre	Descripción
POWER	Interruptor encendido	Permite encender o apagar el producto.
© DC 12V	Conector alimentación	Entrada alimentación 12VDC
HDMI	HDMI	Salida vídeo HDMI
VGA	VGA	Salida vídeo VGA . Permite conectar pantalla para Visión.
	Conector de red	Conector ethernet. Debe conectar a Router o Switch de su red local.
USB	Conexiones USB	Puertos USB para conectar productos como ratón USB o almacenamiento USB
	Conexiones entrada de ALARMA	Conector de alarma. Cada conector corresponde a un canal en orden. Canal 1 es conexión 1 y así sucesivamente.
1234		Cuando utiliza la alimentación externa para la alimentación de alarma necesita utilizar la toma de tierra del NVR
Ŧ	GND	Conector de toma tierra para la entrada alarma

	Conexiones salida	Connector for alarm output.	Output alarm signal to
	alarma	the external alarm device.	The external alarm
NOC		device needs a power supply.	
		NO: alarm output end that	is always on.
		C: common alarm output e	nd.

2.1.4 Mando distancia infrarrojo (solo FN3104H)

El NVR puede manejarse con el mando a distancia incluido.

Nota: Compruebe instalar las baterías correctamente en el mando. Verifique apuntar con el mando a la posición frontal del NVR para su funcionamiento.



Num.	Nombre	Descripción
1	Alimentación	Encienda o apaga el NVR
2	Grabación	Inicia o finaliza manualmente la grabación en el NVR. Se utiliza junto a las teclas de dirección
3	Reproducción	Accede a la función de reproducir los vídeos grabados. Debe combinar con las teclas de dirección.
4	Num.(0-9)	Escribe números de canal y caracteres en los cuadros de dialogo
5	Cambiar	Cambia del modo una pantalla a multi pantalla
6	MENU	Entra mediante acceso directo a la configuración.
7	SEQ	Activa o desactiva cambio de canal de acuerdo con la configuración de cambio. Pulse ESC para detener
8	Manejo	Accede al manejo de cámaras. Debe utilizar más tarde las teclas de dirección.

9	PTZ	Accede al manejo PTZ para mover el objetivo de la cámara
10	ESC	Vuelve atrás o sale de la función
11	Dirección	Mueve arriba, abajo, derecha e izquierda
12	ОК	Permite confirmar
13	Anterior	Reproduce el vídeo anterior
14	Avance imagen	Ve la imagen de cada frame
15	Rebobinar	Selecciona velocidad de rebobinado. Esta tecla debe usarse junto a Play y Pause
16	Siguiente	Reproduce el siguiente vídeo
17	Reproducción rápida	Reproducción a velocidad rápida y velocidad normal
18	Play/Pause	Durante una pausa pulse Play para reproducir. Durante la reproducción pulse Pause para detener

2.1.5 Conexión del producto



Conecte a la alimentación

Compruebe el alimentador del NVR es del voltaje correcto. Conecte a la alimentación. El indicador de alimentación del NVR debe iluminarse indicando recibe alimentación



Utilice el adaptador de alimentación correcto para evitar dañar el equipo.

Acceso a la red

Para la conexión debe tener suficiente ancho de banda para ver con claridad las imágenes.

Conecte la entrada de alarma y los dispositivos de salida

Las conexiones de entrada - salida debe conectarse en las conexiones Alarm IN / OUT del NVR

Conecte a un dispositivo de vídeo

Conecte a un monitor VGA o mediante HDMI desde el NVR

Conecte un ratón

Conecte un ratón USB a la conexión USB del NVR

Conecte un almacenamiento USB

Conecte la memoria USB a la conexión del NVR

2.2 FN3004H

2.2.1 Contenido del producto

Al recibir su NVR compruebe el contenido coincide con el siguiente

Compruebe ha recibido todos los componentes como aparece en el listado siguiente:

Para finalizar puede abrir el NVR y comprobar el cable de datos, y alimentación

• NVR	• CD
Alimentación DC	Quick Installation Guide
Tarjeta de garantía	

The package contents list does not contain a mobile hard disk, IPC and mouse for FN3004H.

- It is highly recommended that the Mobile Hard Disk should be used with Seagate and
 Westeam Digital and over 5400 RPM for FN3004H.
- It is highly recommended to use a third-party brands mouse whose frequencies should be 2.4GHZ or 5GHZ.
- It is highly recommended to use FOSCAM IPC, or the other IPC which supports ONVIF protocol.

2.2.2 Device Structure

Side Panel



lcon	Name	Description
HDMI	HDMI	HDMI video output connector.



Panel trasero



Icono	Nombre	Descripción
	Conexión LAN	Conector para internet
USB1 USB2	Conexiones USB	Puede conectar productos USB como memorias USB o ratón
0	Indicador conectado	El led en el frontal se iluminará en color verde tras conectar a la alimentación
0	Conector alimentación	Alimentación 5VDC

2.2.3 Conexión del dispositivo



Connect to the Power Supply

You should first make sure that the AC voltage connected with the NVR power adapter matches with the requirements. And then connect the power adapter to power input interface of NVR, the power status indicators on the rear panel will light in green, which means that the power supply is properly connected.



Please use the NVR power adapter provided in the package.

Network Access

During the network connection, you should provide sufficient bandwidth to ensure the fluency and clarity of the images transmitted over the network.

Connect to the Video Output Device

Connect the VGA Monitor to VGA interface of NVR, or Connect the HDMI Monitor to HDMI interface of NVR.

Connect to the Mouse

Plug USB mouse into one of the USB interfaces of the NVR.

Connect to the Storage device

Plug USB Storage device into one of the USB interfaces of the NVR.

2.3 USB Mouse Operation

Plug USB mouse into one of the USB interfaces on the rear panel of the NVR.

The mouse should automatically be detected.

The operation of	the mouse:
------------------	------------

Name	Action	Description
Left-Click	Single-Click	Menu or window: select and enter.
	Double-Click	Preview mode or Playback mode: Switch between single-screen and multi-screen.

	Click and	Time or Area box: Select the time or zone range.	
	Drag	Time bar: Drag time bar.	
Right-Click	Single-Click	Live view: Show menu.	
		Menu: Exit current menu to upper level menu.	



The Single-Click mentioned in this article is refer to the left mouse click.

<u>3 gui</u>

You can visit the local NVR device via the display or monitor, and view or manage NVR system.

NVR device is connected to the network,mouse,and mobile storage devices have been successfully installed. Make sure the video output device is connected successfully.

3.1 Login

For the operation, please refer to the Quick Installation Guide.

3.2 Setup Wizard

By default, the Setup Wizard starts once the NVR has loaded,as shown in Figure below.The Setup Wizard can walk you through some importantsettings of the NVR. If you don'twant to use the Setup Wizard atthat moment, right click the mouse to quit.

For the operation, please refer to the Quick Installation Guide.

3.3 Shortcut Menu

After login, right-click the mouse, you will enter the shortcut menu.



One-Screen/Four-Screen/Nine-Screen

Switch between different channels video.

Note : Only FN3109H supports Nine-Screen. If you need to display nine channels IPC device on the live view window, the sub stream of each IPC must be less than 720P.

Menu

Click **Menu** to enter the **Menu** interface, it includes IPC Manager, playback, Backup, About, Settings and System. For details, see "3.4 Menu".

Color Settings

Click **Color Settings** to choose a channel to alter the color, then adjust the parameters of hue, brightness, contrast, saturation and sharpness.



Playback

You can display the video of every a channel for playback. For details, see "3.4.2

Playback".

Manual Record

 Manual Record

 Select All

 ✓CH01
 CH02
 CH03

 CH04
 CH05
 CH06

 CH07
 CH08
 CH09

 OK

or all channels.

Note:Only FN3109H supports 9 channels, but FN3104H and FN3004H support 4 channels.

[Enable Manual Record]

Check the Channel checkbox, Click OK button to take effect.

Click Manual Record to set manual record for single channel

Right-click the mouse to back to the Live view interface. In the live view interface, there

are icon **REC** at the right bottom of the screen for the channel.

[Disable Manual Record]

Uncheck the channel checkbox, Click **OK** button to take effect.

Right-click the mouse to back to the Live view window. In the live view mode, The icon

disappeared at the right bottom of the screen for the channel.

Adding Devices

You can add and connect the IP Camera, configure the connection of IP cameras, delete the connection of IP camera. For details, see "3.4.1 Adding Devices".

PTZ

If a channel is connected to IPC which have the PTZ function, you can control the PTZ(Pan, Tilt, Zoom) of the IP Camera.

In PTZ control settings, select the channel from the drop-down list.



[Optical Zoom]

Configure the zoom of the IP Camera by clicking \pm or =.(This feature only supports IPC devices with zoom function.)

[Preset points]



The default cruise tracks have two types: Vertical and Horizontal.

Vertical: The IP Camera of the channel will rotate from up to down.

Horizontal: The IP Camera of the channel will rotate from left to right.

Start cruise. Stop cruise.

Shutdown

Click **Shutdown** to enter the Shutdown page. You can log out, reboot or shut down the NVR system.



3.4 Menu

Right-click in live view mode and select Menu from the Shortcut Menu, the Menu

interface is displayed.



3.4.1 Adding Devices

Right-click in live view mode and select Adding Devices from the Shortcut Menu, or select "Menu > Adding Devices" in the Menu interface. The Adding Devices interface is displayed.

You can search and add the online IP cameras by following the operation. After adding IP cameras, the basic information of the camera lists in the IP Camera List, and you can configure the basic setting of the IP cameras.



Note

Before adding the IP Camera, make sure that the IP Camera supports FOSCMA or ONIVF protocol. And you have the username, password and port number of the IP camera.

Adding Devices					
Device Name	IP Addres	s Protocol	Port	MAC Address	
2	172.16.0.245	FS / ONVIF	88	C4D6553A2334	
FI9816P-XZ-Test	172.16.1.232	FS / ONVIF	88	000000200001	
EH8155HaHa	172.16.1.71	FS / ONVIF	88	0ABC0CB95302	
R2	172.16.0.44	FS / ONVIF	88	00000000000339	
FI9821P-LV	172.16.0.153	FS / ONVIF	88	C4D6553DEBE9	
HD811ww	172.16.2.203	B FS / ONVIF	88	C4D655347177	
Dahua	172.16.1.85	ONVIF	0	urn:uuid:399fb9	
<	<u>)))</u>			>	
Refresh	Add				
IP Camera List					
Channel IP Address	Port Edit Dele	ete Status			
Ma	nually Add		Save		

Searching IP Cameras

NVR will automatically detect all the online IP Cameras which they can connect to. You will need to know your IP Camera name and password to connect.

If you did not find the online IP Camera which you want to connect, please click **Refresh** button to find the online IP Camera.

Adding IP Camera

1. Select the IP Camera in the IPC Manager list.



2. Click **Add** button and the following interface will be shown:

Make sure that the IP address of the IPC and NVR's in the same network segment, and the subnet mask and gateway are the same as the NVR's.

Select the protocol for the different IPC.

^C FOSCAM protocol: The High Denition(HD) IP Camera of foscam brand.

^C MJ protocol: The Standard Denition(SD) IP Camera of foscam brand.

C ONVIF protocol: The IP Camera which supports ONVIF protocol.

IP Came	era Settings	1	*
Channel	1	->	Select Channel
IP Address	172.016.000.078	ĺ	
Subnet Mask	255.255.000.000		
Gateway	172.016.000.001		
Username	admin	- 12	Input the Username and
Password	*****		Password of the IPC.
Protocol	<u>FOSCAM</u> ~		Salast the surety sal
HTTP Port	88		Select the protocol
Media Port	88		
Cancel	ОК		

- 3. Click **OK** button to finish adding. And the camera and its information will be added in the IP Camera list.
- 4. Click **Save** button to take effect.

	Ado	ding	Devic	es	_
Device Name	IP Add	ress [Protocol	Port	MAC Address
EH8155HaHa	172.16.1.	71 F	s	88	0ABC0CB95302
FI9816P	172.16.20).76 F	s	88	000000000002
FHD973P_xue	172.16.8.	93 F	s	88	00626E561FB1
EH8135-qiyk	172.16.19	.105 F	s	88	00000088135
FI9821P	172.16.1.	129 F	s	88	00626E4D8A3C =
FI9821P	172.16.20).78 F	S	88	00626E55E098
HD818W	172.16.20	0.118 F	S	88	001C850C0009
Refresh	Add				
IP Camera List					
Channel IP Address	Port Edit	Delete	Status		
1 172.16.00.78	88 -	 面	l.		
Green p	oint indicates	that the	connection	n is succe:	ssful.

5. Right-Click to return the previous interface.

Manually Adding IP Cameras

Click Manually Add button in the IPC Management interface.

You can select the Channel and Protocol. Input the IP Address, Username, Password, HTTP Port and Media Port.

Then click **OK** button to finish adding.

IP Camera Settings				
Channel	1			
IP Address	192.168.1.101			
Username	admin			
Password	*****			
Protocol	FOSCAM V			
HTTP Port	88			
Media Port	88			
Cancel	OK			

And the camera and its information will be added in the list of cameras. Click **OK** button to

take effect.

3.4.2 Playback

Right-click in live view mode and selectPlayback from the Shortcut Menu,orchoose "Menu > Playback" in the Menu interface.The Playback interface is displayed.

It supports single-screen or four screens.



1: Select a date with recording in calendar.

2: Select the **Video Type**, and check the checkbox from **Channels**.(Only FN3109H supports 9 channels, but you can select up to four channels for playback at the same time.)

3: Click **Search** button to search the matched recorded files. If there are search results, then they will be shown in the time bar area.

Click the icon

to play the recording video.

4: Manage the recording.

Button	Description
1	After searching file, click the button to play.
Ξ	Pause
	Stop
3	Fast forward. The fast forward speed can be twice, 4 times, 8 times, 16 times or 32 times of the normal playing speed. Click this button. The multiple of normal playing speed is displayed in the upper right corner of the playback page. For example, ">> X2" indicates the current playing speed is twice of the normal speed.
	Slow progress. The slow progress speed can be 1/2 times, 1/4 times, 1/8 times, 1/16 times or 1/32 times of the normal playing speed. Click this button. The multiple of normal playing speed is displayed in the upper right corner of the playback page. For example, ">> X1/2" indicates the current playing speed is 1/2 times of the normal speed.
•	Fast backward. The fast backward speed can be 4 times, 8 times, 16 times or 32 times of the normal playing speed. Click this button. The multiple of normal playing speed is displayed in the upper right corner of the playback page. For example, "<< X4" indicates the current fast backward speed is four times of the normal speed.
	Frame forward. View the image of each frame.

5:Playback time and maximized video playback

Button	Description
\oplus	Zoom-in time axis.
	Left moving time axis.

Button	Description
Γ	Right moving time axis.
Θ	Zoom-out time axis.
¥	Return to the last playback progress bar.
	Make the playing video maximized. After the video is maximized, right-click to exit the currently maximized video.

3.4.3 Backup

Choose "Menu > Backup" in the Menu interface. The **Backup** interface is displayed. You can search the record information, and export the record information to a mobile storage device for backup. The record type contains **Schedule Record**, **Manual Record** and **Alarm Record**.

[Searching the Record]

Set the log search conditions to refine your search, including the Type, Channel, Date and time of the recording. Then click **Search** button to search the matched recorded files. If there are search results, then they will be shown in list.

	Backup						
Туре	ype All Record 🔽 Channel All Channels 🗸						
Date	Date 2015-04-29 🛐						
Start Tim	ne <u>00:00:00</u>						
End Time	e <u>23:59:59</u>		Search				
Channel	Туре	Start Time	End Time	Size	Status		
1	Manual Record	06:10:59	06:23:15	57.44 M	NO ^		
1	Manual Record	06:10:45	06:10:59	1.15 M	NO E		
1	Manual Record	05:37:26	06:10:45	119.60 M	NO		
1	Manual Record	05:31:04	05:32:30	3.34 M	NO		
1/	1/1 Previous Next Goto						
Obj	ect		backup se	elect 🗸	Backup		

[Backup Record]

The record information can be exported to USB-flash disk for backup.

- Double-click the record information by the left mouse in the search result lis t. The status of the Record will change from No to Yes.
- 2. After the USB-flash disk connect to the NVR by the USB interface. Select the **Object** from drop-down list.
- 3. Select the **backup select** from drop-down list.
- 4. Click **Backup** button and start backup.

Bac	kup	
Type _All Record	Channel All Ch	nannels V
Date 2015-04-29 🛐		
Start Tim 00:00:00		
End Time <u>23:59:59</u>	Search	
Channel Type Start Time	End Time Size	e Status
1 Manual Record 06:10:59	06:23:15 57.44 M	M YES 1. Double-click NO by the
1 Manual Record 06:10:45	06:10:59 1.15 M	NO E left mouse, the status will
1 Manual Record 05:37:26	06:10:45 119.60 1	M NO change from No to Yes .
1 Manual Record 05:31:04	05:32:30 3.34 M	NO
1/1 Previous Next	Goto	
Object TOSHIBA Tran	🗸 backup select 🔍	Backup
•		↓ ·
2.Select the object	et address	3.Click Backup

5. Check backup result.

The system	of MP4. For				
example,	CH01_2014-03-20_17_09_3417_11_21.	mp4 indicates that	the video file is		
created between 2014-3-20 17:09:34 and 17:11:21.					
When sear	ching for the recording information	vou can also select	"backup page" or		

 When searching for the recording information, you can also select "backup page" or "backup all" to achieve bulk backup.

3.4.4 Device Information

Choose "Menu > Device Information" in the Menu interface.	The Device Information
interface is displayed.	

You can view the firmware version,

 Device Information

 Image: Constraint of the second secon

manage HDD Info and system log.

Firmware Version

Choose "Menu > About > Firmware Version" in the Menu interface. The **Firmware Version** interface is displayed. You can view the Device Type, Device Name, Firmware Version and Application Version.

Firmware Version				
Device Type	FN3109H			
Device Name	FOSCAM_NVR			
Firmware Version	2.1.1.3			
Application Version	n 1.31.02.02			

HDD Info

Choose "Menu > About > HDD Info" in the Menu interface. The HDD Info interface is

HDD Info							4
SATA 1			USB 0				
No.	Capacity	y F	ree Space		Status	Туре	
	1.82 T	1	.48 T		Record disk	SATA	
		Refres	h Format I	Hard Disk			

displayed. You can see, refresh, format backup disk and format record disk.

[Refresh] : Click the **Refresh** button then you can update to the latest information on the hard disk.

[Format Hard Disk] : If the disk is uninitialized, select the record disk, then click **Format Hard Disk** to format the record disk if the format is incorrect.

System Log

Choose "Menu > About > System Log" in the Menu interface. The **System Log** interface is displayed. The operation, alarm, exception and information of the NVR can be stored in log files, which can be viewed and exported at any time.
System Log								
Туре	All	Log	🔽 Cha	annel <u>Al</u>	l Channels			
Start Ti End Tir	Start Tim 2015-04-29 00:00:00 End Time 2015-04-29 23:59:59 Search							
Channel	Option		Time		Syster	n Log		
	NO	2015-04-29.06	:28:35		Backup	^		
	NO	2015-04-29 05	:37:34		Login			
1	NO	2015-04-29 05	:37:16		Video Loss			
1	NO	2015-04-29 05	:33:28		Video Loss			
1	NO	2015-04-29 05	:30:49		Video Loss			
1/1	Prev	vious Nex	t	Go	ito	¥		
Obj	Object V Backup select V Backup							

[Searching Log]

- 1. Select the log type, channel and time.
- 2. Click the Search button to list all matched logs.

[Backup Log]

The log information can be exported to USB-flash disk for backup.

- 1. Double-click the log information by the left mouse in the search result lis t. The status of the log will change from No to Yes.
- **2**. After the USB-flash disk connect to the NVR by the USB interface. Select the **Object** from drop-down list.
- 3. Select the backup select from drop-down list.
- **4**. Click **Backup** button and start backup.
- 5. Check backup result.

The system saves the log to the mobile storage device. For example,

20140320-134022_01.log indicates that a log is generated at 2014-3-20 13:40:22.

When searching for the log information, you can also select "backup page" or "backup all" to achieve bulk backup.

3.4.5 Settings

Choose "Menu > Settings" in the Menu interface. The Settings interface is displayed. You



can configure the general, video, schedule, network, display, Alarm Settings and OSD.

General

Choose "Menu > Settings > General" in the Menu interface. The **General** interface is displayed. You can configure the basic information of the NVR.

General								
Device Name	FOSCAM_NVR							
Time Zone	(GMT)Greenwich mean time; London, Lisbon, C 🗸							
✓ Automatically s	ynchronize with and Internet time server							
NTP Server	time.windows.co 🗸							
Date Format YYY	Ƴ-MM-DD ✓ Time Format <u>24 Hours</u> ✓							
Overwrite	Yes 🗸							
Language	English							
Setup Wizard	Disable							
Synchronize tim	ne to camera Pre-record time 5 secor	nds						
Re	fresh Save							

NOTE

Please do not modify the NVR system time when recording.

Parameter	Description					
Device Name	You can modify your device name to help you identify it.					

Time Zone	Please select the time zone according to the actual situation.
Automatically synchronize with and Internet time server	Whether synchronize your NVR with an Internettime server.Check: You need to configure the NTP Server.Uncheck: You need to configure the Date and Time.
Date Format	You need to configure the date format.
Time Format	You need to configure the time format.
OverWrite	When the HDD is full. You can select the whether cover the earliest recording.
Language	Configure the language of the NVR interface.
Setup Wizard	Whether to enable startup wizard when the NVR system starts again.
Synchronize	Time set by the NVR system. Whether to synchronize the time to the
time to camera	connected IPC device.
Pre-recorded time	Pre-recording time. When recording is performed, the system starts recording n seconds before recording is enabled.

Click Save button to take effect.

Stream

Choose "Menu > Settings > Stream" in the Menu interface. The **Stream** interface is displayed.

You can configure the encoding scheme parameters of the IP Camera, the NVR system will synchronize your IP camera with encoding scheme.



Parameter	Description					
Channel	You can select the channel for the IP Cameras.					
Stream	You can set the value of Resolution, Bit Rate, Frame Rate, Key					
	Frame Interval when the video was set the main stream.					
	The resolution of the IP Camera.					
Resolution	The higher the resolution is, the sharper the video quality is, but					
	also with the increasing stream, which will take up the higher					
bandwidth.						
	Generally speaking, the larger the bit rate is, the clearer video will					
Bit Date	become. But the bit rate configuration should combine well with the					
	network bandwidth. If the bandwidth is very narrow, and bit rate is					
	large, that will lead to video can not play well.					
	Note that a larger frame size takes up more bandwidth.					
	← When the video format is 50Hz, the maximum frame rate is 25 fps.					
Frame Rate	← When the video format is 60Hz, the maximum frame rate is 30 fps.					
	You should choose a lower frame rate when the bandwidth is limited.					
	Normally, when the frame rate above 15, you can achieve fluently video.					
Key Frame	The time between last key frame and next key frame. The shorter					
Interval	the duration, the more likely you will get a better video quality, but					
	at the cost of higher network bandwidth consumption.					

Click save button to take effect.

Schedule

Choose "Menu > Settings > Schedule" in the Menu interface. The **Schedule** interface is displayed.

You can enable or disable schedule record for the every channel.

Schedule																								
Cha	anı	nel	9	CH	01					2			ΙE	nal	ble									
🖌 Select 🔄 Clear																								
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED																								
тни																								
FRI																								
SAT												T	T											
SUN			İT																					
					Re	əfre	esh									S	ave	e						

[Enable Schedule Recording]

- 1. Select channel from drop-down box list.
- 2. Check the **Enable** checkbox to enable Schedule Recording function.
- 3. Check the **Select** checkbox.

Note: Check Clear checkbox and If you clear the area.

- 4. Click and drag the mouse in the relative positions. The selected area is red.
- 5. Click Save button to take effect for one certain channel.

The icon _____ indicate starts schedule recording at the right bottom of the screen for certain channel.

[Disable Schedule Recording]

1. Select channel from drop-down box list.

- 2. Uncheck the Enable checkbox to disable Schedule Recording function.
- 3. Click Save button to take effect for one certain channel.

Network

Choose "Menu > Settings > Network" in the Menu interface. The **Network** interface is displayed.You can configure the information of Network, DDNS, E-Mail, FTP.

[[Network]]

Check the **Network** checkbox, you can configure the network information of the NVR.



Parameter	Description
Туре	You can select the network type from the drop-down list box. If select the DHCP , NVR system will automatically obtain an IP address and other network settings from that server. If select the Static IP , you can configure an IP address and other network settings
HTTP Port	The default value is 88.
HTTPS Port	The default value is 443.

	You can configure the IP address of the NVR system.					
IP Address	Note:					
	The IP of IP cameras, PC and NVR should be in the same network segment					
	and in the same LAN.					
Subnet Mask	The subnet mask of the NVR system.					
Gateway	The gateway of the NVR system.					
Primary DNS	The primary DNS server of the NVR system.					
Server						
Alternative	The secondary DNS server of the NVR system.					
DNS Server						
	You can use the UPnP function to enable the fast connection of the device to					
	the WAN via a router without port mapping.					
MAC	Note:					
Address	If you want to enable the UPnP function of the NVR, you must enable the					
	UPnP function of the router to					
	which your NVR is connected.					
UPNP	You can enable or disable the UPNP function.					

Click **Save** button to take effect.

How to configure the IP Address,Subnet Mask,Gateway,Primary DNS Server,Secondary DNS Server,please refer to "Appendix IICommon operations > 2.Configure

the IP Parameters".

Check the **DDNS** checkbox, you can configure the DDNS information of the NVR.

The FOSCAM NVR has embedded a unique DDNS domain name when producing,and youcan directly use the domain name,you can also use the third party domain name.

Network							
Network	🗾 DDNS	EMail	FTP				
	Enable DDNS Foscam DDNS Third Party DDN3 DDNS Server Domain	a6747.myfoscam.org S None					
	Refresh		Save				

Note

Here take *a6747.myfoscam.org* for example.

Enable DDNS : Check the DDNS checkbox to enable this feature.

Click Save button to take effect. Then you can use *http:// Domain name + HTTP Port* to access the NVR via internet.

Take hostname a6747.myfoscam.org and HTTP Port.88 for example, the accessing linkof the camera via internetwould be http://a6747.myfoscam.org:88

Third Party DDNS: You can also use third partDDNS, such as www.no-ip.com,www.3322.com.If you set the third party DDNS,refer to the"Appendix II Commonoperations > 1.Third Party Domain Name Settings".

[EMail]

Check the **EMail** checkbox, you can configure the E-mail information of the NVR.

The system can be configured to send an email to the designated users if an alarm or motion event is detected etc..

Before configuring the Email settings, the NVR must be connected to a local area network (LAN) that maintains an SMTP mail server.

Network								
Network		🖌 EMail	🗌 FTP					
	Enable E-Mail Authentication SMTP Server SMTP Port Enable SSH SMTP Username SMTP Password Sender First Receiver	✓ smtp.gmail.com 25 STARTTLS v test@gmail.com ************************************						
	Refresh	Sav	/e					

Parameter	Description
Enable E-Mail	Check the checkbox to enable the Eamil function.
Authentication	Whether to verify the user name and password during login to the mailbox.
SMTP Server	The SMTP Server IP address or host name.
SMTP Port	The SMTP port is usually set as 25. Some SMTP servers have their own port, such as 587 or 465.
Enable SSH	Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.
SMTP Username	The user account of sender 's Email for SMTP server authentication.
SMTP	
Password	The password of sender 's Email for SMTP server authentication.
Sender	The Email address of sender.
Receiver	The Email address of user to be notified. you can set 4 receivers

Click **Save** button to take effect.

Click E-Mail Test to see if Mail has been successfully configured.

If the test success, you can see the success information, at the same time the receivers will receive a test mail.

[[FTP]]

Check the **FTP** checkbox, you can configure the FTP information of the NVR.

The system can be configured to send an picture to the FTP server if an alarm or motion event is detected etc..

Network								
Network		🔄 EMail	✓ FTP					
	FTP Address FTP Port FTP Mode FTP Username FTP Password FTP Test	21 PASV						
	Refresh	Sav	'e					

Parameter	Description		
	C If your FTP server is located on the LAN, you can set FTP		
	address as ftp://IP address/dir.(eg.ftp://192.168.1.103/dir).		
FTF Address	If your FTP server is located on the WAN, you can set FTP address as ftp://domain name/dir.(eg.ftp:test.no-ip.org/dir).		
FTP Port	Default port is 21.You can also change this port manually through FTP server.		
FTP Mode	Here supports two modes: PORT and PASV.		
FTP Username	The user account of FTP server.		
FTP Password	The user password of FTP server.		

Click Save button to take effect.

Click **FTP Test** to see if FTP has been successfully configured.

If the test success, you can see the success information.

Display

Choose "Menu > Settings > Display" in the Menu interface. The **Display** interface is displayed.You can configure the display mode, Resolution, Transparency, Mouse Sensitivity and Interval for the NVR.



Parameter	Description
Resolution	The output resolution of the NVR.
Transparency	Configure the transparency of the NVR output interface.
Mouse Sensitivity	Configure the sensitivity of the mouse.

Alarm Settings

[[External Alarm]]

Note:FN3004H do not support the External Alarm function.

Choose "Menu > Settings > Alarm Settings > External Alarm" in the Menu interface. The

External Alarm interface is displayed.

External alarm input devices are connected through the alarm input interface and external alarm output devices are connected through the alarm output interface. After the devices are connected successfully, you can configure information about the external alarm devices. When an external alarm input device triggers an alarm, the NVR system transmits the alarm information to an external alarm output device, which makes corresponding response.

In the live view mode, there are icons at the right bottom of the screen for each channel.

^C The Icon indicate alarm was triggered.

^C The Icon indicate the IPC is recording.

Exte	ernal Alarn	n	
Alarm Input	1 🗸	Enable	
Detection Schedule	Settings		
Duration(30-90 seconds)		— 60	
Buzzer	🔜 Alarm O	utput	
Send E-Mail	FTP		
Link Record Channel			
✓ CH01	CH02	CH03	
CH04	CH05	🔤 CH06	
CH07] CH08	CH09	
Refresh		Save	

Step1 Select the Alarm Input from drop-down box list.

Step2 Check the **Enable** checkbox to enable IO Alarm function.

- Step3 Set Detection Schedule
 - 1. Click **Settings** button for the Detection Schedule.

Set up arming schedule of the channel for the IO alarm.

You can choose a week, one day of a week, the certain time period for the motion detection alarm.

- 2. Check **Select** checkbox to select the area.
- 3. Drag and draw the area for motion detection by left mouse.

Note: Check Clear checkbox and If	you clear the area,	then drag and draw the area b	уy
-----------------------------------	---------------------	-------------------------------	----

mouse.



- 4. Click the **OK** button to save and exit the window.
- Step4 Set the duration from drop-down box list. It indicates the duration of the alarm and alarm linkage recording.
- Step5 Check the checkbox to select the linkage method. You may refer to follow table for details of linkage methods.

Parameter	Description
Durran	When the IO Alarm is triggered, you can choose whether to enable buzzing
Buzzei	sound of the NVR device.
	When the IO Alarm is triggered, you can choose whether to alarm via the
Alarm output	alarm output device.
	Note : Make sure you have installed the alarm output device.
Send E-mail	When the IO Alarm is triggered, you can choose whether to send e-mail.
	Note: Make sure you have set Email.
	When the IO Alarm is triggered, you can choose whether to upload
FTP	detection picture to FTP server.
	Note: Make sure you have set FTP.
Linkage Record	Check the checkbox to start recording for the certain channel.

Channel

Step6 Click **Save** button to take effect.

-----End

[Motion Detection]

Follow the steps to set the motion detection parameters. In the live view mode, once a motion detection event takes place, the NVR can analyze it and perform many actions to handle it. Enable motion detection function can trigger certain channels to start recording, or trigger full screen monitoring, output alarm, send Email, upload figure to FTP, buzzer alarm and so on.

In the live view mode, there are icons at the right bottom of the screen for each channel.

○ The Icon indicate alarm was triggered.

⁽ The Icon indicate the IPC is recording.

In this chapter, you can follow the steps to schedule a record which triggered by the detected motion.

Choose "Menu > Settings > Alarm Settings > Motion Detection" in the Menu interface. The **Motion Detection** interface is displayed.

	Mot	ion Dete	ction	
Channel	CH01	IPC Aud	⊻ Enable io Warning	
🔄 Buzzer		📃 Alarm O	utput	
Send E-Ma	ail	E FTP		
Detection Are	a Area Setti	ing Detec	tion Schedule	Settings
a Sensitivity	rea 1 Medium 🗸	area 2 Medium 🗸	area 3 _ Medium . ✓	
<u>~</u>	I Enable	🖌 Enable	🗹 Enable	
Detection Inte	rval 🛛 🔚 🗕		10	
Record Time(Second) 🕕 —		30	
	Refresh		Save	

Step1 Select channel from drop-down box list.

- Step2 Check the checkbox to enable motion detection function.
- Step3 Check the checkbox to select the linkage method. You may refer to follow table for details of linkage methods.

Parameter	Description
Record	If you select this checkbox, when the Motion detection is triggered, the NVR will record automatically and store the record files to the HDD.
IPC Audio Warning	If you select this checkbox, when the Motion detection is triggered, the people around the camera will hear beep alarm sound of the IPC.
Buzzer	When the Motion detection is triggered,you can choosewhether to enable buzzing sound ofthe NVR device.
Alarm Output	When the IO Alarm is triggered, alarm via the alarm output Mote:you can choose whether device.to to device.Note:Make sure you have installed the alarm output FN3004H do not support Alarm Output function.device.
Send E-Mail	When the Motion detection is triggered, you can choosewhether to send e-mail.Note: Make sure you have setEmail.
FTP	When the Motion detection is triggered,you can choosewhether to upload detection picture to FTP server.Note:Make sure you have setFTP.

Step4 Set Detection Area.

- 1. Click **Set** button and it pop up a window.
- 2. Drag and draw the area for motion detection by left mouse.
- 3. Right-click with your mouse to save and quit. When something moving in the detection area, the NVR will alarm.

Step5 Set Detection Schedule.

1. Click **Settings** button for the detection schedule.

Set up arming schedule of the channel for the motion detection.

You can choose a week, one day of a week, the certain time period for the motion detection alarm.

- 2. Check **Select** checkbox to select the area.
- 3. Drag and draw the area for motion detection by left mouse.

Note:Check **Clear** checkbox and If you clear the area, then drag and draw the area for motion detection by mouse.

- 4. Click the **OK** button to save and exit the window.
- Step6 Select the **Sensitivity** from the drop-down box list. And then you can enable the detection area.

Parameter	Description		
Sensitivity	The higher the sensitivity, the NVR will be more easily alarmed.		
Detection Interval	The Triggered Interval time between two motion detection. The unit is		
	second.		
Record Time	When you check the Record , you need to configure motion		
(Second $)$	detection recording time. The unit is second.		

You can drag the time bar to select the detection interval and record time.

Step7 Click Save button to take effect.

When the motion has been detected during the detection time in the detection area,theNVR will alarm and adoptthe corresponding alarm linkage.

Note: You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.

-----End

[Other Alarm]

Choose "Menu > Settings > Alarm Settings > Other Alarm" in the Menu interface. The **Other Alarm** interface is displayed. You can configure the HDD(Hard Disk Drive) information.

	Other Alarm	٠
Туре	HDD Loss 🗸	
Buzzer		
Refresh		Save

Parameter	Description
Turno	Select Type form drop-down box list. It contains HDD Loss,
l ype	HDD Saturation, HDD Error, Video Loss and Network Error.
Buzzor	Check the Buzzer checkbox if you want to enable buzzing
Buzzei	sound of the NVR device.

Click Save button to take effect.

OSD

Choose "Menu > Settings > OSD" in the Menu interface.The **OSD** interface is displayed.You can configure the OSD(On Screen Display) information.

OSD
Channel CH01 Channel Name R2
✓ Display Channel Name ✓ Display Time
Enable Mask
Refresh Save

Parameter	Description
Channel	Select the channel from the drop-down list.
Channel Name	It displays the IPC device name of the corresponding channel.
Display Channel Name	Whether to display the IPC device name on the selected channel.
Display Time	Whether to display the IPC device time on the selected channel.
Enable Mask	Check the Enable Mask checkbox to enable OSD function.

[Set Shelter Area]

If the IPC device type is MJ or IPC protocol type is ONVIF, the feature is invalid.

1. Click Select Shelter Area button and it pop up a window.



2. Drag and draw the area for privacy zone by left mouse.

Note: To clear the privacy area, double click the mouse.

3. Right-click with your mouse to save and quit.

Click **Save** button to take effect.

3.4.6 System

Choose "Menu > System" in the Menu interface. The **System** interface is displayed. You can manage the NVR device about User Account, Upgrade, Factory Reset, Para export, Auto Restore, Log Out, Reboot, Shutdown.



User Account

Choose "Menu > System > User Account" in the Menu interface. The **User account management** interface is displayed.

User levels by permission from low to high are visitor, operator, administrator. Different user levels have different operating permission. The default user name of device administrator is admin with no password.

The administrator has the permission to add and delete all users and configure user parameters.

You can add, modify, delete username/password or distribute authority for users.

The valid value range ofUsername and Password is 1 ~ 20 characters,it contains theEnglish letter,numeric and symbol.

No.	Usemame	Password	Competence	Enable
1	admin	****	Administra 🗸	\checkmark
2	opr	***	operator 🗸	✓
3	vis	***	visitor 🗸	\checkmark
4			visitor 🗸	
5			visitor 🗸	
6			visitor 🗸	
7			visitor 🗸	
8			visitor 🗸	

After configure the username, password and competence, you need to check Enable checkbox. Then click **Save** button to take effect.

Upgrade

Choose "Menu > System" in the Menu interface, then click **upgrade** in the **System** interface. You can check for updates by network or upgrade by local.

[Local upgrade]

First, a mobile storage device needs to be inserted by the USB interface and the NVR system upgrade file **upgrade.bin** has been stored in the root directory of the mobile storage device.

Click **Local upgrade** in the Upgrade interface, and then click **OK** button to start upgrade in the pop-up message box.

NOTE:

Don't shut down the power during upgrade. After upgrading, you can see the upgrade result.

Factory Reset

Choose "Menu > System" in the Menu interface, then click **Factory Reset** in the System interface.

Click **OK** button in the pop-up message box and all parameters will return to factory

settings. Click **OK** button and then the NVR device will reboot automatically.

Para export

Choose "Menu > System" in the Menu interface, then click **Para export** in the System interface. You can import or export a configuration file for NVR system.

[Config Export]

It is used to save your current settings. It is recommended to backup your configuration before modifying or upgrading firmware.

Click **Config Export**, and then click **OK** button in the pop-up message box. The configuration files of the NVR will be exported to USB-flash disk for backup. The name of the configuration file name is config.bin.

[Config Import]

Click **Config Import**, and then click **OK** button in the pop-up message box. The configuration file from the USB-flash disk will be import.

The loading process takes about 50 seconds, After having finished the import of configuration files, the NVR device will reboot automatically.

Note

^C Do not disturb the update process by turning off the power.

All current settings will be overwritten when importing a configuration file.
 If a bad configuration file is uploaded the NVR may not work.

Auto Restore

Choose "Menu > System > Auto Restore" in the Menu interface. The **Auto Restore** interface is displayed.

You can configure the Date and Time. The NVR will maintain system at the setting time.

Log Out

After logging out, the monitor turns to the live view mode and if you want to do some operation, you need to input user name and password tog in again.

Choose "Menu > System" in the Menu interface,then click Log Out in the System interface.Click OK button in the pop-up message box,the NVR system willlog out.

Note: After you have logged out the system, menu operation on the screen is invalid. It is required to input a user name and password to unlock the system.

Reboot

Choose "Menu > System" in the Menu interface,then click **Reboot** in the System interface.Click **OK** button in the pop-up message box,the NVR system will reboot.

Shutdown

Choose "Menu > System" in the Menu interface, then click **Shutdown** in the System interface.

Click OK button in the pop-up message box, the NVR system will shut down.

It is recommended that cut off the power after shut down.

You can start up/shut down the NVR by the IR Remote Control(Only FN3104H).



You can access and manage the NVR on a PC through Web browser.

4.1 Instructions before Login

Before accessing the NVR by using the Web browser, you need to obtain the following information:

- ^C The NVR and the PC must be connected to the same LAN and are in the same network segment.
- You can query or allocate the IP address of the NVR by using the following methods:
 Through operation on the local GUI, configure an IP address for the NVR. For the specific operation, see "Appendix II Common operations > 2. Configure the IP Parameters ".
 Allocate an IP address for the NVR through a router.
- C This product supports 32-bit IE8 or later versions and does not support 64-bit IE browsers. It also supports Apple Safari and Mozilla Firefox browsers.

4.2 Login

- Step1 Log in to the Web client of the NVR. You can directly enter the IP address and port in the browser or search out the NVR by using the FOSCAM search tool. Here we take FOSCAM search tool as an example.
- Step2 Find the folder "Equipment Search Tool" in the Foscam CD, then go to the the folder"For windows OS" or "For Mac OS". Copy and paste the search tool file to your computer, or drag it onto your desktop.



Shortcut icon for Windows / Mac OS

Step3 Enable the DHCP feature of your router, then open the Equipment Search Tool program. It should display the NVR's IP address in your LAN.

👽 Equipment Search Tool	Contraction of the local division of the loc		×
Camera Name	IP Address	Device ID	Туре
Anonymous	Http://192.168.1.105:88	00626E55AB1E	NVR

Note

If there are multiple devices, you need to obtain the IP address and port of the NVR using the local GUI. For details, see "3.4.5 Settings > Network".

Step4 Double-click the NVR, and your default browser will open up to the NVR's login page. When logging in for the first time, you will need to install the add-on.

It will pop up the message below the page, as shown in the following figure.

Click **Install** button to install the add-on. Please follow the installation instructions. (Please close the browser during installation.)

G . ttp://172.16.0.226:88/	€ - C × 🧔 NVR Client	×	↑ ★ ¤
FOSCAM	_	Network Video Record	er
	Username admin Password		E
	Language English -		
This website wants to install What's the risk?	the following add-on: 'plugins.exe' from 'ShenZhen Fos	scam Intelligent Technology Co,Ltd'. Install	Ŧ

Step5 After installing the add-on, refresh the browser and enter the login interface.

FOSCAM		Network Video Recorder
	Username admin	
	Password	
	Language English	-
	Login	

Input the follow parameter.

Parameter	Description
Username/Pass	The user name and password of the NVR client.
word	The default administrator username is admin with a blank password, please
	set the new username or password at first using and prevent unauthorized
	users login the NVR.
Language	Select the language type of the NVR client.

- Step6 Click Login button.
- Step? When you log in for the first time, it will come to the operating of modify the username and password automatically.Enter the New Username, New password and Confirm the password.
- Step8 Click **Modify** button, you will see the **Live View** interface of the NVR client.
- -----End

4.3 Live Video

After login, the live view interface will display. You can configure the play/stop the live view, manual recording, manual capturing, preset, cruise, led, color and so on.



Section	Icon	Name	Description
1	\odot	Live Video	Click this button and back to the realtime preview
	(window.
	0	Parameter	There are Local Settings, Settings, Service
	~	Configuration	Configuration, User Management, System
			Management in the Parameter Configuration
			interface.
		Playback	Play back the recorded video files of a specific
			channel in the live view mode.
		Logout	Disconnect the link between the client page of the
			current browser and the NVR server.

2	Q	Channels	In channels of the NVR, you can add IPC
			devices. The FN3109H supports 9 channels, the
			FN3104H and FN3004H support 4channels.
			Note: If you need to display nine channels IPC
			device on the live view window, the sub stream of
			each IPC must be less than 720P.
		Play	Play an IPC monitoring video in a channel of the
			NVR. By default, the video is played.
		Stop	Stop playing the monitoring video in the channel.
	• o	Take	Select the channel, click this button, and you can
		Snapshot	take a snapshot of the monitoring video page of a
			corresponding channel to the local computer. You
			can set the storage path, refer to the "Web >
			Parameter configuration > Settings > Storage
			Location".
		Record	Click this button to manually record the content
			on the monitoring page. The recorded content is
			stored in the HDD of the NVR.
3	Optical Zoom 🕂 😑	Optical Zoom	Click this button, the IP Camera lens focal will be
			bigger or smaller, you can adjust the focal length,
			according to the target object distance to obtain
			high-resolution images.(only supported with
			zoom function of IPC).
		PTZ	The configuring of the PTZ parameters should be
			done before you control the PTZ camera.
			Use the directional button to wheel the camera to
			the location where you want to set preset.
			indicates the IP camera go to the default center.
			Only the IP camera with PTZ supports this
			feature.
4	Preset IR LED Color	Preset	You can configure the preset and cruise of the IP
	Cruise Vertical 💌		Camera.
	Preset TopMost		

	Preset IR LED Color	IR LED	You can configure the LED of the IP Camera.
	Mode Auto 💌		There are two modes: Manual and Auto.
	Preset IR LED Color	Color	You can configure the color of the IP Camera.
5	\bigcirc	Play all	Play monitoring videos in all channels.
0	0	All off	Close monitoring videos in all channels.
		1 Channel	Click this button, It will display one channel in the live view interface.
		4 Channels	Click this button, It will display four channels in the live view interface.
4		9 Channels	Click this button, It will display 9 channels in the live view interface. Only FN3109H supports this function.
		Full Screen	Click this button or double-click the monitoring page to make the monitoring page displayed in full screen. Press Esc to exit full screen mode.

Setting Cruise

	Cruise	Vertical 💌	
The default cruise tracks have tw	vo types: V	ertical and Horizontal.	
Vertical: The IP camera will rot	ate from up to	down.	
Horizontal: The IP camera will	rotate from lef	t to right.	
E: Start cruise.	op cruise.		
If you want to define or change	e the cruise trac	ce, please go to "Parameter	Configuration >
Service configuration > Preset	Settings".		
[How to do cruise?]			

- Select one track in the track drop-down list. Step1
- Click Step2
- Click and finish cruising. Step3

Preset settings



The default preset position is TopMost, BottomMost, LeftMost, RightMost, you can add other preset positions.



Add: Click this icon to save the position you need the IP camera to remember.

Delete: Select one preset position and click this button to delete it.

GO: Select one preset position in the preset drop-down list and click Go to make the IP camera move the preset position.

[How to do preset position? 1

Step1 Rotate the IP camera and stop at a desired place where you want make preset position.

click state button and input a descriptive name for the preset position. The preset position Step2

cannot contain special characters. Then click **I** to save it. If you want to reset the preset

position, click

You can move the IP camera and stop at another place, and set another preset position. You can do all the preset positions with this method.

If you want to see one preset position you have set, only select the preset position name from Step3 the preset drop-down list, and click button, the IP camera will go to the preset position.

4.4 Parameter Configuration

Choose " (Parameter Configuration)", you can configure the Local Settings, Settings, Service Configuration, User Management, System Management and so on.

4.4.1 Local Settings

Firmware Version

You can view the NVR system information,

or modify the **Device Name**.

settings > Firmware Version".

The

Choose " (Parameter Configuration) > Local **Firmware Version** page is displayed.

		Save	• Refresh
Device Type	FN3109H		
Device Name	FOSCAM_NVR		
System Firmware Version	2.1.1.3		
Application Firmware Version	1.31.02.02		

Parameter	Description
Device Type	The product type of NVR.
Device Name	The device name is a unique name that you can give to
	your device to help you identify it.
	You can change your NVR name.
System Firmware Version	Display the system version of your NVR.
Application Firmware Version	Display the application firmware version of your NVR.
Plug-in version	Display the plug-in version of your NVR.

Click **Save** button to take effect.

System Time

You can configure the date and time of the NVR.

- Step1 Choose " (Parameter Configuration) > Local settings > System Time". The **System Time** page is displayed.
- Step2 Configure the system time of the NVR.

		San San	/e	G Refre
Time Zone	(GMT +08:00) Beijing, Singapore, Taipei	•		
Synchronize Time To				
Camera				
Server				
Server NTP Server Enter the NTP Server				
Server NTP Server Enter the NTP Server	2014-10-13			
Server NTP Server Enter the NTP Server System Time	2014-10-13 14 • : 34 • : 02 • Sync With PC			
Server NTP Server Enter the NTP server System Time Date Format	2014-10-13 14 • : 34 • : 02 • Sync With PC			

- Step3 Select the **Time Zone** from the drop-down list.
- Step4 If you check the **Synchronize Time To Camera** checkbox, the default settings of the NVR for the IP camera is applied to the added camera.
- Step5 Configure the system date and time.
 - If you check the Automatically Synchronize With Internet Time Server checkbox, a Network Time Protocol (NTP) Server can be configured on your NVR to ensure the accuracy of system date/time. Choose the one that is closest to your NVR.
 - If you uncheck the Automatically Synchronize With Internet Time Server checkbox, configure the following NTP settings.

Parameter	Description
System Time	There are two different ways for the date format to synchronize the date
	and time of the NVR.
	○ input the date and time manually
	Click Sync with PC button to synchronize the date and time of the
	NVR system with your computer.
Date Format	Select the date format from the drop-down list.
Time Format	Select the time format from the drop-down list.

Step6 Click **Save** button to take effect.

-----End

Network

You can configure the network information of the NVR.

Step1 Choose " (Parameter Configuration) > Local settings > Network". The **Network** page is displayed.

		Save	G Refresh
Network Type	DHCP]
HTTP Port	88		
HTTPS Port	443		
IP Address	172.16.0.65]
Subnet Mask	255.255.0.0		
Gateway	172.16.0.1		
Primary DNS Server	0.0.0.0]
Alternative DNS Server	192.168.8.8		
UPNP	Enabled		1

Step2 Configure the network parameter.

Parameter	Description
Network Type	You can select the network type from the drop-down list box.
	C If select the DHCP , the NVR system will automatically obtain an
	IP address and other network settings from that server.
	C If select the Static IP, you can configure an IP address and
	other network settings.
HTTP Port	The default value is 88.
HTTPS Port	The default value is 443.
IP Address	You can configure the IP address of the NVR system.
	Note:
	The IP of IP cameras, PC and NVR should be in the same network
	segment and in the same LAN.
Subnet Mask	The subnet mask of the NVR system.
Gateway	The gateway of the NVR system.
Primary DNS	The primary DNS server of the NVR system.
Server	
Alternative	The secondary DNS server of the NVR system.

Parameter	Description
DNS Server	
UPNP	You can use the UPnP function to enable the fast connection of the
	device to the WAN via a router without port mapping.
	Note:
	If you want to enable the UPnP function of the NVR, you must
	enable the UPnP function of the router to which your NVR is
	connected.

How to configure the **IP Address**, **Subnet Mask**, **Gateway**, **Primary DNS Server**, **Secondary DNS Server**, please refer to "Appendix II Common operations > 2. Configure the IP Parameters".

Step3 Click **Save** button to take effect.

Email

The system can be configured to send an email to the designated users if an alarm or motion event is detected etc..

Before you configure the Email settings, the NVR must be connected to a local area network (LAN) that maintains an SMTP mail server. The network must also be connected to either an intranet or the Internet depending on the location of the e-mail accounts to which you want to send notification.

Step1 Choose " (Parameter Configuration) > Local settings > Email". The **Email** page is displayed.

		Sar	ve		Refresh
					•
Enable E-Mail	Open		~		
Authentication	Open		~		
SMTP Server					
SMTP Port	25				
Transport Layer Security	None		~		
SMTP Username					
SMTP Password				Test	
Sender					
First Receiver					
Second Receiver					
Third Receiver					

 $\label{eq:step2} Step2 \quad \mbox{Configure the Email parameter}.$
Parameter	Description
Enable E-Mail	Enable or Disable the Email function .
Authentication	Enable or Disable the server authentication feature.
SMTP Server	The SMTP Server IP address or host name.
SMTP Port	The SMTP port is usually set as 25. Some SMTP servers have their own port, such as 587 or 465.
Transport Layer Security	Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.
SMTP Username	The user account of sender 's Email for SMTP server authentication.
SMTP Password	The password of sender 's Email for SMTP server authentication.
Sender	The Email address of sender.
First/Second	
/Third/Fourth	The Email address of user to be notified. you can set 4
Receiver	receivers

Step3 Click **Save** button to take effect.

Step4 Click Test to see if Mail has been successfully configured.

If the test success, you can see the success information, at the same time the receivers will receive a test mail.

-----End

FTP Settings

The system can be configured to send an picture to the FTP server if an alarm or motion event is detected etc..

Step1 Choose " (Parameter Configuration) > Local settings > FTP Settings". The **FTP Settings** page is displayed.

		Save	Refresh
TP Address	ftp://172.16.1.69		
	Example:ftp://192.168.1.10)3/NVR	
P Port	21		
P Mode	PASV		-
^o Username	lhr		
P Password			

Step2 Configure the FTP parameter.

Parameter	Description					
FTP Address	C If your FTP server is located on the LAN, you can set FTP					
	address as ftp://IP address.(eg.ftp://192.168.1.103/dir).					
	If your FTP server is located on the WAN, you can set FTP address as ftp://domain name /dir.(eg.ftp://test.no-ip.org/dir).					
FTP Port	Default port is 21. If changed, external FTP client program must change the server connection port accordingly.					
FTP Mode	Here supports two modes: PORT and PASV.					
FTP Username	The user account of FTP server.					
FTP Password	The user password of FTP server.					

Step3 Click Save button to take effect.

Step4 Click Test to see if FTP has been successfully configured.

If the test success, you can see the success information.

-----End

DDNS

The FOSCAM NVR has embedded a unique DDNS domain name when producing,and youcan directly use the domain name,you can also use the third party domain name.

Choose " (Parameter Configuration) > Local settings > DDNS". The **DDNS** page is displayed.

DDNS			
		Save	G Refresh
Enable DDNS			
Foscam DDNS	test.myfoscam.org		Restore DDNS
Third Party DDNS			
DDNS Server	None	~	
Domain			

Note

Here take *test.myfoscam.org* for example.

Enable DDNS : Check the DDNS checkbox to enable this feature. Click Save button to take effect. Then you can use *http:// Domain name + HTTP Port* to access the NVR via internet.

Third Party DDNS: You can also use third partDDNS, such as www.no-ip.com, www.3322.com.If you set the third party DDNS, refer to the "Appendix IICommon operations >

1. Third Party Domain Name Settings".

Video Encode

Choose " (Parameter Configuration) > Local settings > Video Encode". The **Video Encode** page is displayed.

You can configure the encoding scheme parameters of the IP Camera, the NVR system will synchronize your IP camera with encoding scheme.

		I Same		CA Patrash
		Jave		J Kenesn
Channel	Channel01		•	
Stream	Main stream		•	
Resolution	1920 X 1080		•	
Bit Rate	4M		-	
Frame Rate	30		•	
Key Frame Interval	30			

Parameter	Description
Channel	You can select the channel for the IP Cameras.
Stream	You can set the value of Resolution, Bit Rate, Frame Rate, Key Frame Interval when the video was set the main stream.
Resolution	The resolution ofthe IP Camera.The higher the resolution is,the sharper the video quality is,but alsowith the increasing stream,which will take up the higher bandwidth.
Bit Rate	Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. If the bandwidth is very narrow, and bit rate is large, that will lead to video can not play well.
Frame Rate	 Note that a larger frame size takes up more bandwidth. When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should choose a lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.
Key Frame Interval	The time between last key frame and next key frame. The shorter the duration, the more likely you will get a better video quality, but at the cost of higher network bandwidth consumption.

Click **save** button to take effect.

System Log

Choose " (Parameter Configuration) > Local settings > System Log". The **System Log** page is displayed.

The operation, alarm, exception and information of the NVR can be stored in log files, which can be searched and viewed at any time.

The Log Type contains Alarm log, System log and Operation log.

System Log					
					G Search
Channel	All channels			7	
Log Type	All logs			2	
Date	2014-6-20]	
Start time	0 🗸 0	~	0	2	
End time	23 🗸 59	• •	59 💊	2	
NO. Channel	Time	User	IP		System Log

[Search Log]

- 1. Select the Channel, Log Type, Date, Start time and End time.
- 2. Click the **Search** button to list all matched logs.

4.4.2 Device Management

IP Camera Setup

NVR provide a function of auto searching IP camera. When there are supported IP cameras in the same network segment of a LAN with NVR, you may add it in one button with IP Camera's user name, password and port number.

[Auto Adding IPC]

Choose " (Parameter Configuration) > Device Management > IP Camera Setup". The

www.foscam.com

IP Camera Setup page is displayed.

		• Refresh
he Current LAN IPC List	F19900P(172.16.0.148) F19818WNVRHaHa(172.16.1.73) FC1405PC_lifan(172.16.2.217) HD811ww(172.16.2.203) EH8155HaHa(172.16.1.71) FHD973P-chen11(172.16.3.99) F10904DLW(472.06.0.472) TRefit	esh
Channel01	FI9821P(172.16.20.78)	
Protocol	FOSCAM	•
Device Name	FI9821P	
IP Address	172.16.20.78	
HTTP Port	88	
Username	admin1	
Password		
	Add Delete	
hannel02	None	
`hannel03	None	

- Step1 You can see all IP Cameras searched in The Current LAN IPC List.
- Step2 Select one channel from Channels.
- Step3 Choose the IP Camera in the list of 'The Current LAN IPC List' . Choose the Protocol from the drop list. Input the Username and Password of the IPC. Select the FOSCAM protocol for Foscam brand IPC, and select the ONVIF protocol for other brands IPC.
- Step4 Click Add button to finish adding.

-----End

[[Manually Adding IPC]]

You can also manually add the IPC device. After select any one of the channels, input information of the IPC. Then click Add button to finish adding.

Hard Disk Information

You can configure the Disk Saturation, Pre-recorded Time for HDD information.

Step1Choose " (Parameter Configuration) > Device Management > Hard Disk Information".The Hard Disk Information page is displayed.

					Save	G Refres
NC	. ()	Туре	Status	Available Space / Capacity (G)		
1		SATA Hard Drive	Record disk	1.48T/1.82T	Format Hard Disk	
Dis	k Sat	uration	Cover The	Earliest Record		
Pre	-reco	ord Time	5s		•	

Step2 You can configure the following settings.

Format Hard Disk: Click the Format Hard Disk button to initialize the SATA disk for recording.

Note: Initializing the HDD will erase all the data saved on it, please backup the data before formatting hard disk if necessary.

Disk Saturation: When the disk is saturated, you can choose to stop recording or cycle coverage.

Pre-record Time: The time you set to record before the event.
 For example, when an alarm triggered the recording at 11:00, if you set the pre-record time as 5 seconds, the camera records it at 10:59:55.

Step3 Click **Save** button to take effect.

Storage Location

-

You can configure the storage location for snap picture and backup record file.

Choose " (Parameter Configuration) > Device Management > Storage Location". The **Storage Location** page is displayed.

Storage Location			
		Save	C Refresh
Snapshot Pictures To	c:\NVR_SnapPictures	Browse	
Snapshot Pictures To: Click	he icon 🔟 (Take Sna	apshot) in the Real	time Preview page or
Playback page, the snapshot	picture will be saved	I to the Snap Picture	e Path in the local
computer.			

```
www.foscam.com
```

4.4.3 Service Configuration

Motion Detection

Follow the steps to set the motion detection parameters. In the live view mode, once a motion detection event takes place, the NVR can analyze it and perform many actions to handle it. Enable motion detection function can trigger certain channels to start recording, or trigger full screen monitoring, output alarm, send Email, upload FTP, buzzer alarm and so on.

In the live view mode, there are icons at the right bottom of the screen for each channel.

^C The Icon indicate alarm was triggered.

○ The Icon indicate the IPC is recording.

You can follow the steps to schedule a record which triggered by the detected motion.

Choose " (Parameter Configuration) > Service Configuration > Motion Detection". The **Motion Detection** page is displayed.

Motion Detect	ion		
	Save Save	7 Refresh	
Channel	Channel02	1	
Enable 🗹 🙎			
Sensitivity	Medium	3	
Detection Interval	10s 🗸	Č	
	Alarm Output		
	Send E-mail		
Action	FTP 🗌	4	
	Record Time 30s V		
	Buzzer 🗌		
	IPC Audio Warning		
	Set Detection Area 5		
	(C) Detection Schedule	C	-
00 01 02 03	04 05 06 07 08 09 10 11 12 13 14 15	0 16 17 18 19 20 21	22 23
All			
THE			
WED			
ТНО			
FRI			
SAT			
SUN			

- Step1 Select channel from drop-down box list.
- Step2 Check the **Enable** checkbox to enable motion detection function.
- Step3Select the Sensitivity and Detection Interval.The higher the sensitivity, the NVR will be more easily alarmed.The Detection Interval time between two motion detection.
- Step4 Check the checkbox to select the linkage method. You may refer to follow table for details of linkage methods.

Parameter	Description
Alarm output	When the IO Alarm is triggered, you can choose whether to alarm via the alarm output device.
	Notes:
	FN3004H do not support Alarm output function.
	Make sure you have installed the alarm output device.
	When the Motion detection is triggered, you can choose whether to
Send E-Mail	send e-mail.
	Note: Make sure you have set Email.
	When the Motion detection is triggered, you can choose whether to
FTP	upload detection picture to FTP server.
	Note : Make sure you have set FTP.
Record	If you select this checkbox, when the Motion detection is triggered,
	the NVR will record automatically and store the record files to the
	HDD.
Record Time	When you check the Record , you need to configure motion detection recording time.
	When the Motion detection is triggered, you can choose whether to
Buzzer	enable buzzing sound of the NVR device.
IPC Audio	If you select this checkbox, when the Motion detection is triggered,
Warning	the people around the camera will hear beep alarm sound of the IPC.

Step5 Set Detection Area

1. Click **Set Detection Area** button and it pop up a window.



2. Drag and draw the area for motion detection by left mouse.

Note: To clear the motion detection area, Drag and draw the motion detection area by left mouse.

 Click OK button to save and quit. When something moving in the detection area, the NVR will alarm.

Step6 Set Detection Schedule

Set up arming schedule of the channel for the motion detection.

You can choose a week, one day of a week, the certain time period for the motion detection alarm.

C Choose all Time Period

Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at anytime, the NVR will alarm.



Choose one day

Click the week day words, the corresponding column will be selected.

For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, when something moving in the detection area, the camera will alarm.



C Choose the Certain Time Period

```
Press the left mouse and drag it on the time boxes, you can select the serial area.
```

										C	So	hedu	ıle											
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED					89 - S																			
THU																								
FRI																								
SAT																								
SUN										-								-						

Step7 Click Save button to take effect..

When the motion has been detected during the detection time in the detection area, the

NVR will alarm and adopt the corresponding alarm linkage.

Note: You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.

-----End

Schedule

You can enable or disable schedule record for the every channel.

Set the record schedule, and then the NVR automatically starts/stops recording according to the configured schedule. The recording files will be save to the HDD or mobile store device.

The lcon _____ indicate starts schedule recording at the right bottom of the screen for certain channel.

Step1 Choose " (Parameter Configuration) > Service Configuration > Schedule". The **Schedule** page is displayed.

Schedu	le																									
																			Save					€	9 Re	fresh
	Channe	el					Cha	nnel	01										•							
	Enable						Off												•							
										(s 🧿	cheo	dule													
	All	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	MON																									
	TUE																									
	WED																									
	THU																									
	FRI																									
	SAT																									
	SUN																									

- Step2 Select channel from drop-down box list.
- Step3 Select Open or Off for the **Enable** schedule record.
- Step4 Set Recording schedule time of the channel. You can choose a week, one day of a week, the certain time period for the recording. For detailed procedure, please refer to Motion Detection.
- Step5 Click **Save** button to take effect.

-----End

External Alarm

Note:FN3004H do not support the External Alarm function.

External alarm input devices (such as door status sensor, infrared sensor, and smoke sensor) are connected through the alarm input interface and external alarm output devices (such has local audible alarm and visual alarm) are connected through the alarm output interface. After the devices are connected successfully, you can configure information about the external alarm devices. When an external alarm input device triggers an alarm, the NVR system transmits the alarm information to an external alarm output device, which

makes corresponding response.

In the live view mode, there are icons at the right bottom of the screen for each channel.

^C The Icon indicate alarm was triggered.

- ^C The Icon indicate the IPC is recording.
- Step1 Choose " (Parameter Configuration) > Service Configuration > External Alarm". The **External Alarm** page is displayed.

																									Sa	/e		G Re
Alarma																											-	
-Marini I	inpui																		•									
Enable	7																											
Duratio	n						60s	2											•									
							Buzz	er 🗖]																			
							Send	E-m	ail 🔳																			
Action							FTP	[]																				
							Alarn	Out	nut 🛛	1																	E	
							Midil	i Oui	put				~ -															
Link Re	ecore	d Ch	anr	nel			• C	hann	el01	⊖ C	hann	e102	© C	hann	el03													
							© C	hann	el04	© C	hann	e105	00	hann	el06													
							© c	hann	el07	© c	hann	el08	© C	hann	el09													
										() 0	etect	tion \$	Schee	dule													
	00	0.	1	02	02	04	0.5	06	07	00	00	10	44	12	12	14	15	16	17	10	10	20	21	22	12			
All	00	U		02	05	04	05	00	01	00	05	10		12	15	14	15	10		10	15	20	21	22	25			
MON			-	_	-					_																		
IUE	-		-	_	+																-		-					
WED	-	-	-		+		-		-	_							-				_				-			
THU		-	-	_	+		-					_		_			-			_	_				-			
FRI																											-	

- Step2 Select the Alarm Input interface from Alarm Input drop-down box list.
- Step3 Check the **Enable** checkbox to enable IO Alarm function.
- Step4 Set the Duration from drop-down box list.
- Step6 Check the checkbox to select the linkage method. You may refer to follow table for details of linkage methods.

Parameter	Description
Buzzor	When the IO Alarm is triggered, you can choose whether to enable
Duzzei	buzzing sound of the NVR device.
	When the IO Alarm is triggered, you can choose whether to send
Send E-mail	e-mail.
	Note: Make sure you have set Email.
	When the IO Alarm is triggered, you can choose whether to upload
FTP	detection picture to FTP server.
	Note : Make sure you have set FTP.
	When the IO Alarm is triggered, you can choose whether to alarm
Alarm output	via the alarm output device.
	Note : Make sure you have installed the alarm output device.
Link Record	
Channel	Check the checkbox to start recording for the certain channel.

Step? Set external alarm time time of the channel.
 You can choose a week, one day of a week, the certain time period for the IO alarm.
 For detailed procedure, please refer to "4.6.3 Service Configuration > Motion Detection".

Step8 Click Save button to take effect.

-----End

Other Alarm

 Step1
 Choose " (Parameter Configuration) > Service Configuration > Other Alarm", The Other

 Alarm page is displayed.

)ther Alarm			
		III Save	G Refresh
Туре	HDD Loss	•	
Buzzer			

Step2 Select Type form drop-down box list.

Step3 Check the **Buzzer** checkbox if you want to enable buzzing sound of the NVR device.

Step4 Click **Save** button to take effect.

-----End

OSD

You can configure the OSD (On screen Display) information of the NVR.

Step1 Choose " (Parameter Configuration) > Service Configuration > OSD", The **OSD** page is displayed.

D			
		Save	G Refresh
Channel	Channel01	•	
Channel name			
Display Channel Name	No	•	
Display Time	No	•	
Enable Privacy			

Step2 You can configure the follow parameters.

Parameter	Description
Channel	You can select one channel from drop-down box list
	You can modify the IP Camera's name.
	After you modify the name and save the modification, the NVR
Channel name	system synchronizes the channel name to the corresponding IPC
	device name.
	The channel name will be shown on the top left of the video image.
Display Channel	There are two options: Yes or No. Select Yes and you can see the
Name	IP camera's name on the video
Display Time	There are two options: Yes or NO. Select Yes and you can see the system date on the channel video.

Step3 You can configure the privacy zone settings for the camera. Check the **Enable Privacy** checkbox and it pop up a window. If the IPC device type is MJ or IPC protocol type is ONVIF,

the feature is invalid.

Step4 You can use the mouse to click and drag the text frame on the live view window to adjust the OSD position.

```
Step5 Click Save button to finish the mask area setting. The mask area will be marked with black.
```

```
-----End
```

Pan & Tilt Speed

If the IP Camera has the PTZ function, you can configure the pan and tilt speed of the IP Camera.

Step1 Choose " (Parameter Configuration) > Service Configuration > Pan & Tilt Speed". The **Pan & Tilt Speed** page is displayed.

		Save	G Refresh
Channel	Ch 01		
Pan & Tilt Speed	Normal Very fast Fast		

- Step2 Select channel from drop-down box list.
- Step3Select Pan & Tilt Speed from drop-down box list.There are five PT speed types: very fast, fast, normal, slow and very slow.
- Step6 Click Save button to take effect.

-----End

Cruise Settings

If the IP Camera has the PTZ function, you can manage the cruise of the IP camera.

Choose " (Parameter Configuration) > Service Configuration > Cruise Settings". The **Cruise Settings** page is displayed.

There are two default cruise tracks: Vertical and Horizontal.

- Vertical: The IP Camera will rotate from up to down
- Horizontal: The IP Camera will rotate form left to right.

		G Refre
Channel NO.	Channel02	•
Cruise Tracks	Vertical	Add Delete
Preset Point TopMost BottomMost LeftMost RightMost 1	Add Delete Up Down	Cruise Track TopMost BottomMost

[Add Cruise Track]

- 1. Select channel from drop-down box list.
- 2. Click Add button and enter a descriptive name to identify the cruise track.

3. On the lower left of the page, you can see all preset points you have added. Select one preset point and click **Add** button, you can see the preset point has been added to the cruise track on the cruise track page. You need to add two or more preset points to the cruise track.

How to customize the preset, please refer to "4.3 Live Video > Preset settings".

Channel NO.	Ch 01	
Cruise Tracks	track1	OK Cancel
Preset Point		Cruise Track-
TopMost		LeftMost
BottomMost		RightMost
Leniviost RightMost		
	bbA	
	Delete	
	Down	

There are other buttons between the Preset points and Cruise track, you can use these buttons to adjust the order of preset points or add/delete one preset points in one cruise track.

Add: Select one preset points and add it to the selected cruise track.

Delete: Select one preset points you have added to one cruise track, click delete.

Move up/ down: Select one cruise track, adjust the order of preset points in one cruise track.

4. Click **OK** button and the cruise track will take effect.

You can add other cruise track as the same method.

After add the cruise track, back to the surveillance window of IP Camera, select **Cruise**, here you can see all cruise tracks you have added.

[Query Cruise Track]

- 1. Select channel from drop-down box list.
- 2. Select the track from the Cruise Tracks.

You can see the cruise track which you want to query.

[Delete Cruise Track]

- 1. Select channel from drop-down box list.
- 2. Select the track from the Cruise Tracks.
- 3. Click **Delete** button to delete the cruise track.

You can see the cruise track which you want to query.

Note: The default cruise track cann't be deleted.

4.4.4 User Management

User Account

User levels by permission from low to high are visitor, operator, administrator. Different user levels have different operating permission. The default user name of device administrator is admin with no password.

The administrator has the permission to add and delete all users and configure user parameters.

You can add, modify, delete username/password or distribute authority for users.

The valid value range of Username and Password is 1 ~ 20 characters, it contains the English letter, numeric and symbol.

Choose " (Parameter Configuration) > User Management > User Account". The User Accounts page is displayed.

				Save	0
NO.	Username	Password	Competence	9	Enable
1	admin	•••	Administrator	\sim	\checkmark
2			visitor	~	
3			visitor	~	
4			visitor	~	
5			visitor	~	
6			visitor	~	
7			visitor	~	
8			visitor	~	

[Add a User]

- 1. input the Username and Password.
- 2. Select the user level from the **Competence**.
- 3. Check the **Enable** checkbox.
- 4. Click **Save** button to save the settings and the added new user will be displayed on the list.

[Changing Password of Admin]

- 1. In the **Password** text field, delete the old password, input the new password.
- 2. Click **Save** button to take effect.

4.4.5 System Management

Import/Export Configurations

You can import or export a configuration file for NVR system.

Choose "(Parameter Configuration) > System Management> Import/ExportConfiguration".The Import/Export Configurations page is displayed.

Import	t/Export Configurations
Backup is us	ed to save your current settings. It is recommended to back up your configuration before modifying or
upgrading fin	mware.
Backup	o Configurations
Settings can	be restored by uploading the backup file.
Pain.	Browse Import
Note:	
1. All current	settings will be overwritten when importing a configuration file. If a bad configuration file is uploaded the
camera may	not work.
2. Do not dis	turb the update process by turning off the power, the IP camera may be damaged. The loading process takes
about 50 sec	conds, the camera will reboot automatically.

- Backup Configurations: Backup is used to save your current settings. It is recommended to backup your configuration before modifying or upgrading firmware. Click Backup button and the configuration files of the NVR will be exported for backup. The name of the configuration file name is config.bin.
- Import: Click "Browse...", select the config.bin file from the USB-flash disk and click the
 Import button. The loading process takes about 50 seconds, After having finished the import of configuration files, the NVR device will reboot automatically.

Note

- C Do not disturb the update process by turning off the power.
- All current settings will be overwritten when importing a configuration file.
 If a bad configuration file is uploaded the NVR may not work.

Upgrade

Choose " (Parameter Configuration) > System Management > Upgrade". The **Upgrade** page is displayed.

Click **Browse** to select the upgrade file in the local directory.

Click **Upgrade** to start upgrade.

Upgrad	Upgrade					
Path:	D:\upgrade.bin	Browse Upgrade				

Don't shut down the power during upgrade. After upgrading, you can see the upgrade result.

Your current system version will	be displayed on your screen.	You may go to the
"Parameter Configuration > Local	Settings > Firmware Version"	Page to check for the
latest system versions available.		

Patch Installation

Choose " (Parameter Configuration) > System Management > Patch Installation". The **Patch Installation** page is displayed.

You can install or install patch of the NVR.

Click Browse to select	the patch file in the local	directory.
-------------------------------	-----------------------------	------------

Patch Installat	ion				
[Browse	Install Patch	
		}	Diotico	inotan'i atom	

Factory Reset

Choose " (Parameter Configuration) > System Management > Factory Reset". The **Factory Reset** page is displayed.



Click **Factory Reset** button, then click **OK** button in the pop-up message box and all parameters will return to factory settings. The NVR device will reboot automatically.

Reboot

Choose " (Parameter Configuration) > System Management > Reboot". The **Reboot** page is displayed.

Click **Reboot** button, then click **OK** button in the pop-up message box. The NVR system will reboot.

Auto Restore

Choose " (Parameter Configuration) > System Management > Auto Restore". The **Auto Restore** page is displayed.

		Save	G Refresh
ate	Never		-
		-	

You can configure the Date and Time. The NVR system will be maintained at the setting time.

4.5 Playback

Choose "	(Playback)",	you can	play the recor	ding file of	the NVR.	
FOSCAM	$\underline{\bigcirc}$	000		Netwo	ork Video Recorder	
C 2015 4 5 Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 90 1 Type All Records • Playback Channel01 • 2 • Channel03 • • • • Channel04 • • • •						
Search Alarm Record Schedule Record Manual Record			3 0800 1000 1200	14.00 16.00	1800 2000 2200 2400	C

1: Select a date with recording in calendar.

2: Select the **Record Type**, and check the checkbox from the **Channels**.

3: Click **Search** button to search the matched recorded files. If there are search results, then they will be shown in the time bar area.

4: Manage the recording.

lcon	Description
	Start
	Stop
**	Fast backward. The fast backward speed can be 4 times,8 times,16 timesor 32 times of the normal playing speed.Click this button.The multiple of
	normal playing speed is displayed in the upper right corner of the playback
	page. For example, "<< X4" indicates the current fast backward speed is
	four times of the normal speed.

	Fast forward. The fast forward speed can be twice, 4 times, 8 times, 16
	times or 32 times of the normal playing speed. Click this button. The
	multiple of normal playing speed is displayed in the upper right corner of
	the playback page. For example, ">> X2" indicates the current playing
	speed is twice of the normal speed.
1.	Slow progress. The slow progress speed can be 1/2 times, 1/4 times, 1/8
	times, 1/16 times or 1/32 times of the normal playing speed. Click this
	button. The multiple of normal playing speed is displayed in the upper
	right corner of the playback page. For example, ">> X1/2" indicates the
	current playing speed is 1/2 times of the normal speed.
±	Download. Downloaded files are stored to the local PC.
10	Select the channel, click this button, and you can take a picture of a
	corresponding channel to the local computer. You can set the storage
	path, refer to the "Web > Parameter configuration > Settings > Storage
	Location".
	Full screen. Make the playing video maximized. After the video is
	maximized, press ESC to exit full screen.

4 : Playback time

You can move the mouse to a specific time axis and click to watch the playback.

lcon	Description
\oplus	Zoom-in time axis.
Θ	Zoom-out time axis.

5 Appendix

5.1 HDD Capacity Calculation

This chapter describes how to determine the size of the HDD you need when you install the NVR for the first time.

The NVR adopts the MPEG4/H.264 compression technology and its dynamic range is large. Therefore, the capacity of the HDD depends on the estimated size of files generated in each channel every hour according to code streams.

Computational formula of HDD Capacity:

Whole HDD Capacity(M)= number of the channels × time in need (hour) × spent of HDD Capacity per hour (MB/hour)

The meanings of parameters are as follows:

- C Number of the channels: Number of channels where you need to enable recording.
- C Time in need (hour): Time you need to record.
- C Spent of HDD Capacity per hour

Spent of HDD Capacity per hour(M/hour)=
$$\frac{BitRate}{8bit} * 3600(\sec ond)$$

You can obtain the Bit Rate by using the following methods:

In the GUI interface, choose "Menu > Settings > Video", view the value of the Bit Rate.

חייח

In the Web interface, choose"Parameter Configuration > Local settings > Encoding
 Scheme", view the value of the **Bit Rate**.

[Example]

If you select 4M for the bit rate and select four channels for recording and one week of recording is needed, you can calculate the HDD capacity by using the following formula:

Recording time (hour) =7days*24 hours=168 hour

Spent of HDD Capacity per hour(M/hour)=	$\frac{4Mbit}{8bit} * 3600 = 1800 \text{M/hour}$	
Whole HDD Capacity(M)=4*168(hour)*1800	(M/hour) ,=1209600M,	
$1209600M = \frac{1209600M}{1024} = 1181.25G$		
According to the preceding calculation result,	you are advised to buy a HDD of	1.5 TB or
above.		

5.2 Common operations

1.Third Party Domain Name Settings

User can also use third part DDNS, such as <u>www.no-ip.com</u>, www. 3322.com Here take <u>www.no-ip.com</u> for example: ① Step 1, Go to the website <u>www.no-ip.com</u> to create a free hostname Firstly: Login on <u>www.no-ip.com</u> and click No-IP Free to register.



Figure 4.27

Please register an account step by step according to instructions on www.no-ip.com.

After registration, please login your email which used to register. You will receive an email from website,

please click the link to activate your ACCOUNT as indicated in email.

Secondly: Login the link with the registered username and password to create your domain name.

The DNS Servi	De Provider Home	Download Services	Support Company
Client Log	in		User Login Username cuixiang
Home ▹ <u>Client Login</u>		Login with the register username and passwo	Additional Services
	Email: Password:		No-IP Enhanced Upgrade your No-IP account to unlock many exciting features.
	Forget your password? No problem, <u>Click Here</u> If you are not currently a registered user of No-IP	ogin .com,	No-IP Backup DNS Maximize uptime and add Anycast to your existing DNS infrastructure.
	and would like to be for FREE, <u>register</u> as a new	user.	No-IP Monitoring

Figure 4.28



Please create the domain name step by step according to instructions on www.no-ip.com Step 2, DO DDNS Service Settings within the NVR Please set DDNS Settings within the NVR by hostname, a user name and password you've got from <u>www.no-ip.com</u>

Take hostname ycxgwp.no-ip.info, user name foscam, password foscam2012 for example.

Firstly, goes to option of DDNS Settings on the administrator panel.

Secondly, select No-Ip as a server..

Thirdly, fill foscam as DDNS user, fill password foscam2012 as DDNS password, fill ycxgwp.no-ip.info as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

Fourthly, after the restart, login the NVR, and go to option of Device Status on the administrator panel, and check if the DDNS status is successful.

If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.

NOTE :

If you have set Third Party DDNS successfully the Foscam Domain Name will be invalid. The Third Party DDNS and the Foscam Domain Name cannot work at the same time, the last time you configured will take effect.

② Do port forwarding within the router

Example: The camera's LAN IP address is <u>http://192.168.8.100:2000</u>, Media port no. is 9200.

Firstly, login the router, goes to the menu of Port Forwarding or Port Trigger (or named Virtue Server on some brands of router). Take Linksys brand router as an example, Login the router, and goes to Applications & Gaming->Single Port Forwarding.

Secondly, Create a new column by LAN IP address & HTTP Port No. of the NVR within the router showed as below.

						Wireless	N Home Router	WRT120N
Applications & Gaming		Setup Wireless Security Access A			ss Restrictions Port Range Trigge	Application: Gaming ring	Administration	Status QoS
Single Port	Forwarding							
Application Name		External Port	Internal Port	Protocol	To IP Address	Enabled		
	None 💌				192.168.8		neip	
	None M		-		192.168.8.			
	None M	Fill the HTTP Port no. of the			192.168.8			
	None 💌	External Port an	d Internal Po	rt+	192.168.8			
	None 💌	1			192.168.8			
Http		2000	2000	Both 💌	192.168.8 100		Fill the LAN IP	of the came
Media 9200		9200	Both ¥ 192.168.8	192.168.8 100		here, just input t	he last sectio	
				Both 💌	192.168.8			41
Assig	n a	Fill the N	ledia Port no	o. of the				
name as you like		camera on	the colu	mn of				

③ Use domain name to access the camera via internet

After the port forwarding is finished, you can use the domain name+ http no.to access the camera via internet. Take hostname ycxgwp.no-ip.info and http no. 2000 for example, the accessing link of the camera via internet would be <u>http:// ycxgwp.no-ip.info:2000</u>

2. Configure the IP Parameters

Here we take TP-LINK router as an example.

The IP address of the NVR must be in the range of the router address pool.
 Log in to the router client through the browser and select "DHCP server > DHCP service".
 On the DHCP page, you can view the start address and end address of the address pool.

TP-LINK	۲°		
Status	DUOD 0-4%		
QUICK SETUP	DHCP Settings		
Network	DHCP Server:	💿 Disable 💿 E	nable
Wireless DHCP	Start IP Address:	192.168.0.100	
- DHCP Settings	End IP Address:	192.168.0.199	
- DHCP Client List - Address Reservation	Address Lease Time: Default Gateway:	192.168.0.1	(Optional)
Forwarding	Default Domain:		(Optional)
Security	Primary DNS:	0.0.0.0	(Optional)
Parental Control	Secondary DNS:	0.0.0.0	(Optional)
Access Control			
Advanced Routing	-	Save	
Bandwidth Control		Jave	

The subnet mask of the NVR must be the same as the subnet mask in LAN port status.
 The default gateway of the NVR is the same as the IP address in LAN port status. The primary DNS and secondary DNS can be the same as the DNS in WAN port status.

P-LINK			
atus			
uick Setup Status			
PS			
etwork	rmware Version:	2 12 27 Build 120/10 Bel 1/095n	
ireless	ardware Version.	WER40N1v4 00000000	
ICP	aruware version.	WR84011 V1 0000000	
rwarding			
curity LAN			
irental Control	MAC Address:	00-0A-EB-13-09-19	
cess Control	IP Address:	192.168.0.1	
ivanced Routing	Subnet Mask:	255 255 255 0	
andwidth Control			
& MAC Binding			
namic DNS Wireless			
stem Tools	Wireless Radio:	Enable	
	Name (SSID):	TP-LINK_840	
	Mode:	11bgn mixed	
	Channel Width:	Automatic	
	Channel:	Auto (Current channel 10)	
	MAC Address:	00-0A-EB-13-09-19	
	WDS Status:	Disable	
WAN			
	MAC Address:	00-0A-EB-13-09-1A	
	IP Address:	192.168.3.129	Dynamic IP
	Subnet Mask:	255.255.255.0	
	Default Gateway:	192,168,3,1	Release
	DNS Server	102 168 3 1 102 168 3 1	

5.3 Specifications

ITEMS		FN3004H
Video Input	IP Video Input	4-ch 720P/960P HD IP Camera
	Capitable Camera	Foscam HD IP Cameras and other brand
		ONVIF-embedded cameras supported
		Foscam MJPEG cameras to be added by firmware
		upgrade
Video Output	Decoding Resolution	(1080P)1920 x 1080, (960P)1280 x 960, 720P(1280 x
		720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240),
		QVGA(320 x 180)
	Playback Resolution	(1080P)1920 x 1080, (960P)1280 x 960, 720P(1280 x

		720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240),
		QVGA(320 x 180)
	Synchronous Playback	up to 4-ch 960P
	HDMI/VGA Output	1-ch, resolution: 1920 × 1080 /60Hz, 1280 × 720
		/60Hz,1440 × 900 /60Hz,1024 × 768 /60Hz
Hard Disk	Туре	USB External HDD
External	Network	One 10/100/1000 Mbps RJ45 port
Interface	USB	Two USB port for mouse and external storage
	Video Output	One HDMI, and one VGA
	Power Input	One DC power supply jack
	Button	one recovery button
	Alarm in/out	4-ch alarm in and 1-ch alarm out
Software	Control Method	Mouse
Features	Display Switch	1-ch/4-ch display switch
	Video Storage	Schedule Recording
	Video Playback	4-ch 720P synchronous video playback
	PTZ	Supports Pan/Tilt/Zoom control
	Camera	Search camera in LAN, add camera, and manage a
	Search/Management	camera list
	Camera Settings	Network, video, display, alarm settings
	Disk Management	Set the video coverage strategy, format disk
	Motion Detection	Alarm area and schedule settings
	User Accounts	User account management
System	Operating System	Microsoft Windows XP, 7, 8;
Requirements	Browser	Microsoft IE8 and above version or compatible browser
Power	Power Supply	DC 5V/2.0A
Physical	Dimension(LxWxH)	89(L)*89(W)*31.5(H) mm
Environment	Operating Temperature	-20° ~ 55°C (-4°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	
Warranty	Limited 2-year warranty	

ITEMS		FN3104H
Video Input	IP Video Input	4-ch 720P/960P HD IP Camera
	Capitable Camera	Foscam HD IP Cameras and other brand ONVIF-embedded
		cameras supported
		Foscam MJPEG cameras to be added by firmware upgrade
Video Output	Decoding	(1080P)1920 x 1080, (960P)1280 x 960, 720P(1280 x 720),
	Resolution	VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240),
		QVGA(320 x 180)
	Playback	(1080P)1920 x 1080, (960P)1280 x 960, 720P(1280 x 720),
	Resolution	VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240),
		QVGA(320 x 180)
	Synchronous	up to 4-ch 960P
	Playback	
	HDMI/VGA Output	1-ch, resolution: 1920 × 1080 /60Hz, 1280 × 720 /60Hz,1440 ×
		900 /60Hz,1024 × 768 /60Hz
Hard Disk	Туре	One SATA interface for one 3.5 inch disk
	Capacity	Up to 4TB, compatible with Seagate, Western Digital hard disk
External	Network	One 10/100/1000 Mbps RJ45 port
Interface	USB	Two USB port for mouse and external storage
	Video Output	One HDMI, and one VGA
	Power Input	One DC power supply jack
	Button	One power on/off button, and one recovery button
	Alarm in/out	4-ch alarm in and 1-ch alarm out
Software	Control Method	Mouse/remote controller/Internet Browser, on CMS and smart
Features		phone in coming
	Display Switch	1-ch/4-ch display switch
	Video Storage	Schedule Recording, Alarm Recording
	Video Playback	4-ch 720P synchronous video playback
	PTZ	Supports Pan/Tilt/Zoom control
	Camera	Search camera in LAN, add camera, and manage a camera list
	Search/Managem	
	ent	
	Camera Settings	Network, video, display, alarm settings
	Disk Management	Set the video coverage strategy, format disk

	Motion Detection	Alarm area and schedule settings	
	User Accounts	User account management	
System	Operating System	Microsoft Windows XP, 7, 8	
Requirements			
	Browser	Microsoft IE8 and above version or compatible browser;	
Power	Power Supply	DC 12V/3.0A	
Physical	Dimension(LxWx	220(L)*188.5(W)*39(H) mm	
	H)		
Environment	Operating	-20° ~ 55°C (-4°F ~ 131°F)	
	Temperature		
	Operating	20% ~ 85% non-condensing	
	Humidity		
	Storage	-20°C ~ 60° (-4°F ~ 140°F)	
	Temperature		
	Storage Humidity	0% ~ 90% non-condensing	
Certification	CE, FCC, RoHS		
Warranty	Limited 2-year warranty		

ITEMS		FN3109H
Video Input	IP Video Input	9-ch HD IP camera input
	Capitable Camera	Foscam H.264 / MJPEG IP Cameras and other brand ONVIF cameras supported
	Decoding Resolution	1080P(1920 x 720),960P(1280 x 960), 720P(1280 x
		720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x
Video Output		240), QVGA(320 x 180)
	HDMI Output	1-ch, resolution: 1920 × 1080 /60Hz, 1280 × 720
		/60Hz,1440 × 900 /60Hz,1024 × 768 /60Hz
	VGA Output	1-ch, resolution: 1920 × 1080 /60Hz, 1280 × 720
		/60Hz,1440 × 900 /60Hz,1024 × 768 /60Hz
HDD	HDD Type	One SATA interface for one 3.5 inch disk
	Capacity	Up to 4TB Digital hard disk
External	Network	One 10/100 Mbps RJ45 port
Interface	USB	Two USB2.0 interface for mouse and external storage

	Video Output	One HDMI, and one VGA	
	Power Input	One DC power supply jack	
	Button	One power on/off button,and one reset button	
	Alarm in/out	4 channels sensor inputs and 1 channel alarm out	
	Control Method	Mouse/Internet Browser	
	Display Switch	1 channel 1080 or 4 channel 960P / 720P or 9 channel	
		VGA display switch	
	Record Mode	Manual /Time Scheduled/Alarm Triggered/Motion Detect	
	Video Plavback	1 channel 1080 or 4 channel 960P / 720P synchronous	
		video playback ,Fast forward / Rewind / Slow Play	
	PTZ	Supports Pan/Tilt/Zoom control,Optical Zoom supportted	
Software Features	Camera	Search cameras in LAN, add camera, and manage a	
	Search/Management	camera list	
	Application support	Remote configuration, video browse, local record, local	
		and remote playback,Remote upgrade	
	Disk Management	Set the video coverage strategy, format disk	
	Motion Detection	Alarm area and schedule settings	
	User Accounts	User account management	
	Operating System	Microsoft Windows XP, 7, 8, 8.1, Mac OS	
	Browser	Microsoft IE8 and above version ,Firefox,Safari	
	Power Supply	DC 12V/3.0A	
Physical and Environmental	Dimension(LxWxH)	220 × 209 × 40mm (L x W x H)	
	Net Weight (g)	750g	
	Operating Temperature	-20°C ~ 55°C (-4°F ~ 131°F)	
	Operating Humidity	20% ~ 85% non-condensing	
	Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)	
	Storage Humidity	0% ~ 90% non-condensing	
5.4 List of Third-party list

List of Third-party HDD

Brand	Model	Description
Western Digital	WD5000AAKX	500GB 7200RPM 16MB SATA3
	WD10EZEX	1TB 7200RPM 64MB SATA3
	WD10EURX	1TB 7200RPM 64MB SATA3
	WD20EZRX	2TB 5400RPM 64MB SATA3
	WD4001FAEX	4TB 7200RPM 64MB SATA3
	WD40EURX	4TB 7200RPM 64MB SATA3
Seagate	ST500DM002	500GB 7200RPM 16MB SATA3
	ST1000DM003	1TB 7200RPM 64MB SATA3
	ST1000VX000	1TB 7200RPM 64MB SATA3
	ST2000VX000	2TB 7200RPM 64MB SATA3
	ST4000DM000	4TB 5900RPM 64M SATA
TOSHIBA	DT01ABA200V	2TB 5700RPM 32MB SATA3
HGST	HUS724020ALA640	2TB 7200RPM 64MB SATA

List of Third-party Mobile Hard Disk

Brand	Mode	Description
SAMSUNG	M3	500GB, Mobile Hard Disk 5400RPM 8MB Cache USB3.0
	M3	1TB, Mobile Hard Disk 5400RPM 8MB Cache USB3.0
TOSHIBA	HDTB105AK3AA	500GB, Mobile Hard Disk 5400RPM 8MB Cache USB3.0
Western Digital	WDBUZG0010BBK-01	1TB, Mobile Hard Disk 5400RPM USB3.0
	DS11-201312-0043	2TB, Mobile Hard Disk 5400RPM USB3.0
Seagate	STBV4000300	New Seagate Expansion 4TB, Mobile Hard Disk
		5400RPM USB3.0

5.5 FAQ

1. No image displayed on the monitor after starting up normally.

- C Verify the device is connected with the monitor via HDMI or VGA cable.
- C Verify the connection cable is good.
- C Verify Input mode of the monitor is correct.

Please check the input mode of the monitor matches with the output mode of the device (e.g. if the output mode of NVR is HDMI output, then the input mode of monitor must be the HDMI input). And if not, please modify the input mode of monitor.

2. No record file found in the NVR local HDD, and prompt "No record file found".

C Verify the system time setting is correct.

Choose "Menu > Settings > General" in the GUI interface, and verify the time is correct.

C Verify the search condition is correct.

Choose "Menu > Playback" in the GUI interface, and verify the channel and time are correct.

C Verify the HDD status is normal.

Choose "Menu > About > HDD Info" in the GUI interface, view the HDD status.

3. Why recording is not performed after motion detection is enabled?

On the "Motion Detection" page, check whether the following are correctly set:

- C Check whether the motion detection channel is correct.
- C Check whether a trigger time segment is set.
- C Check whether a detection area is set.
- C Check whether recording is selected.

4. Why doesn't the monitor respond when I operate the remote control?

- C Check the battery of the remote control (positive and negative poles or battery level).
- C Check whether the remote control is aligned with the middle position of the front panel of the NVR.
- C Check whether you use the remote control correctly.
- C Check whether the remote control is interfered by fluorescent lights around.

5. Why can the NVR search the IPC but cannot connect the IPC?

On the "IPC management" page, check whether the following are correctly set:

- C Check whether the user name and password for the IPC are correct.
- C Check whether the web page port for the IPC is correct.
- C Check whether the IPC also supports the protocol selected in the NVR.

6. The screen of the display is incomplete.

Confirm the current resolution and check the resolution supported by the display. If the resolution is 1920*1080, the display needs to support the resolution 1920*1080.

7. Why can't opened web pages on the client be used properly after the NVR server switches to the 1080P mode?

When the NVR server switches to the 1080P mode, some functions can take effect only after the server reboots. In this case, log out of the Web client and log in to it again. In similar cases, for example, changing the IP address and HTTP port of the NVR, you need to log in to the client again.

8. Why can't video files be downloaded during video playback or downloaded files cannot be played back properly?

To save consumed resources, the server limits concurrency of video playback and file download. In this case, stop video playback and then download files or play back videos after video files are downloaded.

9. Why does the Web client prompt TIME OUT after you enable or disable UPNP in network settings?

In this case, the server restarts some applications. Accordingly, you need to exit the web client and log in to the client again.

10. It prompt "Have no right to create directory or file!" after taking snapshot.

When you use Windows7 or Vista, you may be not able to snapshot path because of the security settings of computer.

Please add the NVR as a trusted site to resolve this issue. Open IE browser, Choose "Tools > Internet Options > Security", Select "Trusted sites", then click "Sites", it will pop up the page, as shown in the following figure.

Trusted sites	×
You can add and remove websites from this zone will use the zone's security se	n this zone. All websites in ettings.
Add this website to the zone:	
http://172.16.0.127:88/	Add
Websites: 1. Input the IP adress	2. Click Add Remove
Require server verification (https:) for all sit	es in this zone
3. Uncheck the checkbox	Close

11. After the adding of the IPC successfully, the video of the corresponding channel has lost in the live view mode.

Make sure that the IPC display mode is not more than NVR display mode. For example: NVR display mode for the 4 * 960P, the IPC display mode can not be 1080P.

12. Why does the Web client prompt the message " Plugins are not found, Click me to download" or " Find a new Plugins, Click me to download " after installing plug-in?

You need to close the current browser after installing the plug-in, and then open the browser to access the login page.

Acronym	Term	Description
DDNS	Dynamic Domain	Dynamic DNS is a method, protocol, or network service
	Name Server	that provides the capability for a networked device, such
		as a router or computer system using the Internet Protocol
		Suite, to notify a domain name server to change, in real
		time (ad-hoc) the active DNS configuration of its
		configured hostnames, addresses or other information
		stored in DNS.
DHCP	Dynamic Host	DHCP is a network application protocol used by devices
	Configuration	(DHCP clients) to obtain configuration information for
	Protocol	operation in an Internet Protocol network.
HDD	Hard Disk Drive	A storage medium which stores digitally encoded data on
		platters with magnetic surfaces.
HTTP	Hypertext Transfer	A protocol to transfer hypertext request and information
	Protocol	between servers and browsers over a network
PPPoE	Point-to-Point	It is a network protocol for encapsulating Point-to-Point
	Protocol over	Protocol (PPP) frames inside Ethernet frames. It is used
	Ethernet	mainly with ADSL services where
		individual users connect to the ADSL transceiver (modem) over Ethernet and in plain Metro Ethernet networks.

5.6 Glossary

PTZ	Pan, Tilt, Zoom	PTZ cameras are motor driven systems that allow the	
		camera to pan left and right, ti I tup and down and zoom in	
		and out.	
NTP	Network Time	A protocol designed to synchronize the clocks of	
	Protocol	computers over a network.	
NVR	Network Video A NVR can be a PC-based or embedded system use		
	Recorder	centralized management and storage for IP cameras.	

5.7 CE & FCC

Electromagnetic Compatibility (EMC)

FCC Statement



This device compiles with FCC Rules Part15. Operation is subjectto the following twoconditions.

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is like to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

FCC Caution

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

CE Mark Warning

CE

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

5.8 WARRANTY

ShenZhen FOSCAM Intelligent Technology Limited.("FOSCAM") values your business and always attempts to provide you the very best of service.

No limited hardware warranty is provided by FOSCAM unless your FOSCAM product ("product") was purchased from an authorized distributor or authorized reseller. Distributors may sell products to resellers who then sell products to end users. No warranty service is provided unless the product is returned to an authorized return center in the region where the product was first shipped by FOSCAM or to the point-of-purchase, which may have regional specific warranty implications.

If you purchase your FOSCAM product from online store, please contact the point-of-purchase and ask for return/replacement/repair service.

Hardware Warranty Information

FOSCAM provide 2-year limited warranty for naked product and 6-month limited warranty for accessories.

Limited Hardware Warranty

 FOSCAM products are warranted to be free from manufacturing defects in materials and workmanship starting from the shipping date of FOSCAM.
This limited hardware warranty does not cover:

C Software, including the software added to the products through our factory-integration system,

software that included in the CD,etc.

- C Usage that is not in accordance with product instructions.
- ^C Failure to follow the product instructions.
- Abuse firmware upgrade without the authorized technician's guidance.
- Normal wear and tear.

Return Procedures

- Please read FOSCAM warranty policy & policy of your reseller first before sending items back to point-of-purchase.
- Customer must first contact point-of-purchase to obtain a Return Merchandise Authorization (RMA) number before returning the product. If the product you received is suspected to be defective and the product warranty has not expired, The RMA number will allow your reseller to track your return much easier and help them expedite processing your request.
- After receiving your RMA case number, pack the item(s) very well with the original box and all the original accessories included such as power adapters, brackets, cables, manuals, and driver CD disks.
- Write your RMA number and the return reason (the problem of the product) on the warranty card along with the complete package to send them back.

Replacement Services

- If customers ask for replacement service, please contact point-of-purchase and follow their policy.
- Our technicians will inspect all items returned for replacement requests. If the retuned product is found in working order, we will return the same item received. However customers shall be responsible for all shipping & handling charges incurred for getting the units back to customers.
- If returned products are found defective, we will replace the product and assume the shipping cost for sending back the replacement unit to customers.
- If for any reason, we are unable to provide a replacement of the original returned item(s). You will have a choice for a "Substitute" item at the same equal value.
- We do not provide exchange and replacement due to normal hardware upgrade according the market after 14 days after the product is delivered.
- Our technicians will test the product before send out the replacement, any other demand for more than two times replacement for the same product during replacement limit will be rejected.
- Replaced products are warranted from the balance of the former warranty period.

Warranty Forfeiture

- ^C Warranty is void if purchase from unauthorized distributor or reseller.
- Warranty is void if trade-mark, serial tags, product stickers have been removed, altered or tampered with.
- ^C Warranty is void for mishandling, improper use, or defacing the product.
- Abuse firmware upgrade without the authorized technician's guidance.
- C Warranty is void for physical damage, altered, either internally or externally, improper or inadequate

packaging when returned for RMA purposes.

- Warranty is void if damage has resulted from accident, dismantle, abuse, or service or modification by someone other than the appointed vendor, souse, fission or the spare part has been over the period of warranty.
- Warranty is void if product is damaged due to improper working environment or operation. (For example, improper temperature, humidity, unusual physical or electrical stress or interference, failure or fluctuation of electrical power, static electricity, using wrong power adapter, etc.)
- Warranty is void if damaged by the use of parts not manufactured or sold by FOSCAM.
- C Damage caused by improper installation of third-party products.
- Warranty is void if damaged for irresistible cause, such as earthquake, fire, lightning, flood, etc.
- C Product beyond limited warranty.

Shipping Fee

- If products are defective or damaged under normal use or operation in the replacement limit, distributors or resellers are responsible for the shipping cost the product back to customers, customers should assume the shipping cost send the product to the point-of-purchase.
- C During replacement limit, if customers ask for replacement due to the product does not fit for customer's personal expectation, customers should responsible for both shipping fee.
- Customers shall be responsible for both shipping fee if their product beyond the replacement limit but still in warranty limit.

Repair Service Out Of Warranty

- FOSCAM provide extra repair service for product that out of warranty, it is chargeable. The total fee contains device cost and service fee. Device cost (including accessories) is the standard uniform price provide by FOSCAM.
- C Different region may have different service fee, please contact the point-of-purchase to confirm that before you ask for this service.
- C Our technicians will quote the total price after detect the product, If customers refused to repair after the quotation, customers need pay for the test fee, \$3.5/hour. If agree with the quotation, test will be free.
- Repaired product out of warranty will obtains 3-month warranty from the date of the product back to customers.

Limitation of Liability

- FOSCAM is not responsible for other extra warranty or commitment promised by resellers, if your reseller promised some extra commitment or warranty; please ask for written documents to protect your rights and interests.
- FOSCAM does not offer refunds under any circumstances. Please contact the point-of-purchase and follow their refund/return policy.
- FOSCAM shall not be liable under any circumstances for any consequential, incidental, special or exemplary damages arising out of or in any connection with this agreement or the products, including but not limited to lost profits, or any claim based on indemnity or contribution, or the failure of any limited or exclusive remedy to achieve its essential purpose or otherwise. Purchaser's exclusive remedy, as against FOSCAM, shall be the repair or replacement of defective parts. If FOSCAM lists a product on its website specification in error or that is no longer available for any reason, FOSCAM reserves the right to explain it without incurring any liability.

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5.9 Obtaining Technical Support

While we hope your experience with the NVR is enjoyable and easy to use, you may experience some issues or have questions that this User's Guide has not answered. If you have problem with FOSCAM device, please first contact FOSCAM reseller for solving the

problems. If our reseller cannot provide service, please contact our service department:

tech@foscam.com