

User Manual



Model: FN7108W-B4

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Security Warning

- Please change the password of your Foscam NVR App account, and NVR and cameras user name regularly. The password should contain a combination of numbers, letters and special characters.
- Please keep the user name and password of your cameras, NVR and Foscam NVR App account safe.
- Please update your camera to the latest firmware regularly for an optimal user experience.

Preface

Welcome to use our product, Network Video Recorder (NVR) Kit. This document mainly focuses on the installation and configuration of NVR Kit application system. With high performance video, user-friendly GUI, and practical industrial designs. This series NVR Kit is suitable for civil applications such as homes, stores, internet cafes, and small businesses in addition to mainstream security and surveillance applications.

Default Settings

NVR / Camera: Default administrator name is admin.

Declaration

- ➤ The feature of product on this manual is just for reference. Please prevail in physical product.
- > The manual provides multiple product models for reference. The specific operations are not listed one by one. Please follow the operations depending on the actual product.
- > Because the actual environment may be discrepant, the actual values of some data may be different from the values provided in the manual. If there are any question or dispute, the final interpretation of prevails.
- > If you do not follow the manual during operation, you will bear any loss caused thereof.

Important Safety Instructions

This chapter describes how to use the product properly so as to prevent danger and property loss. Be sure to follow the security instructions when operating this product.

The CR2032 model lithium battery is used inside the device. If other types of batteries are used, there is a danger of explosion. When replacing the battery, do not put the old battery into fire or handle it with household garbage. Please dispose of used batteries in accordance with local laws and regulations

Installation Environment

Precautions

- Please keep the device horizontally and avoid inclination or inversion.
- Do not install the wireless NVR in humid and dusty environment.
- > Put the wireless NVR in drafty environment in case of ventilation port being blocked.
- Don't touch the power switch with wet hand or damp items to avoid shock.
- > Do not splash liquid or metal filing on the NVR To avoid short-circuit fault or blaze.
- > Explosion may happen because of improper replacement of battery, do not replace it by yourself; If you need, make sure it is the same type of battery. And do not open or repair it.
- > Do not take the device apart when it is operating (or connecting to power).
- Please use suitable and professional hard disk to ensure continues and stable recording.
- Lightning protection is needed when device is connected to communication cables. Ethernet cable which comes form outside, connecting to the wireless NVR directly is forbidden.
- Check the power supply to avoid damage because of voltage mismatch.
- Make sure the wireless NVR working within suitable temperature and humidity environment.
 - Short circuit may occur when dust become wet on circuit board. Please clean the dust on circuit board, connectors, and NVR case.

1 Overview

1.1 Product Introduction

The series of product is a NVR Kit. This advanced product series receives a high quality video stream that is transmitted digitally by the IP Camera (IPC). The product can perform live video preview, recording, playback, remote access, and backup simultaneously.

1.2 Key Features

Network Monitoring

You can access the NVR system remotely through the Video Management System (VMS) and Foscam APP, or access the NVR system locally by using the display or monitor.

Multi-screen Preview

Multi-screen preview indicates that several pages are displayed on the screen of the monitor based on the same scale.

Recording

The NVR supports recording and storing video files on a Hard Disk Drive (HDD). Stored videos files can be queried or played back through local GUI.

Recording can be classified into schedule recording, manual recording, and alarm recording from low priority to high priority. If recording of any two types is enabled at the same time, only the recording of a higher priority takes effect.

- Manual recording
 - You can manual enable recording in the corresponding channel.
- Schedule recording
 - You can select the scheduled time segment to enable or disable recording.
- Motion detect recording
 - After the motion detect is enabled and recording is selected, motion detect recording is enabled when motion detection is triggered in the detection time segment and detection area.
- Alarm recording

After the Shelter is enabled and recording is selected, If the video is occluded, the video channel will have an alarm flag alert that triggers an alarm and alarm logging will be enabled.



When NVR system time and IPC time are different, the NVR recording will based on the NVR system time.

Playback

You can play recording video files stored in the Hard disk. Recording includes schedule recording, manual recording, motion recording and alarm recording. Single-screen playback, four screens or nine screens synchronous playback are supported.

Alarm

Motion Detection Alarm

You can configure motion detection information about the corresponding channel in the NVR system. When an object moves in the detection time segment and detection area, an alarm is triggered, the NVR system enables motion detection recording, sends pictures to your mailbox, and uploads pictures to your FTP server.

Manage

You can search for IPC devices in the LAN through the NVR and add IPC devices to the NVR channel. Through the NVR, you can also manage IPC devices.

HDD Management

When the HDD becomes exceptional (for example, HDD Loss, HDD Full, and HDD Error), the NVR buzzer sounds an alarm.

When the HDD is full, you can select the cycle cover the earliest recording or stop recording.

Other Functions

- Support the logging function.
- Support local GUI output and perform shortcut operations through the mouse (left click to select, right click to return to the previous menu).
- Three roles can access the NVR, which are respectively visitor, operator, and administrator. The rights of the three roles vary from low to high.

1.3 Relevant Version

Name	Recommended Configuration	
	You are recommended to equip a 16:9 monitor with the resolution higher than	
Monitor	1920 *1080.	
Network	10/100M Ethernet or above.	

2 gui

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.

2.1 Before Starting

You need to know some basic information before you log on to the NVR system with the monitor or display.

2.1.1 Icons Description

- In the live view mode, there are icons at the right top of the full screen.
 - The HDD is full, and the recording has been stopped. A HDD is not inserted into the NVR or the HDD connected to the NVR is abnormal.
- In the live view mode, there are icons at the right bottom of the screen for each channel,
 - !: Identify whether someone is moving within the range of the camera.
 - : NVR is recording for the IPC.
 - : You can click this icon to control whether IPC records sound.
 - : Shows the strength of the IPC wireless network.
 - The alarm of the IPC is triggered.

2.1.2 Common Operations

Starting Up the NVR

Turn on the power, The Power indicator LED should turn green indicating that the device begins to start up.



If the power LED indicator on the front panel is off, please check if the power supply is plugged into an electrical outlet:

Shutting Down the NVR

Proper ways to shut down the NVR in the GUI interface: After login, right-click the mouse, you can click **Shutdown** in the shortcut menu. Choose **Shutdown**, click the **OK** button in the confirmation box. Then turn off the power switch on the rear panel, the power LED indicator on the front panel turns off.



Don't turn off the power directly when you turning on.

Reset

You can reset the NVR device to restore the factory settings. You can choose any one of the following methods operate.

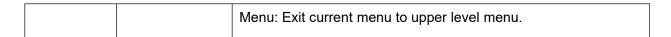
- Reset button: Press and hold it for 3 seconds to reset all parameters to factory defaults on the bottom of the NVR.
- Local GUI: Right-click the mouse, Choose Main Menu > Restore in the Menu interface, then
 choose to restore defaults in the Restore factory settings interface.

2.1.3 USB Mouse Operation

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

The operation of the mouse on the local GUI is shown as below.

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 Drag	Time or Area box: Select the time or zone range.
		Time bar: Drag time bar.
		Live view: Moving channel arrangement order
Right-Click	Single-Click	Live view: Show menu.





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

2.2 Login

For your security, please set a new password for your NVR before Log In.



Login page.

Enter the Username and Password, then click on the **OK** button. You will be taken to the Setup Wizard.



2.3 Guide

By default, the Guide starts once the NVR has loaded. The Guide can walk you through some important settings of the NVR. If you don't want to use the Guide at that moment, right click the mouse to quit.

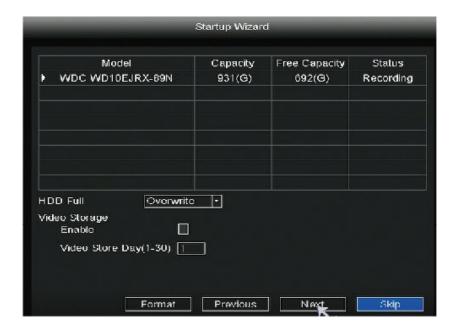
1. Setting the system time, date format, language, resolution of the monitor and so on.



2. Format HDD.

Click the Format button to set up the HDD. Note that this will delete all files on the HDD.

HDD Full Setting. Select Stop Record and Overwrite.



3. Network

You can set up the network information for the NVR.

4.P2P.

If you want to know the UID of the device, please scan the QR code. If you don't want to use the Setup Wizard next time, check **Not show again** checkbox. Click the Finish button to complete the setup wizard.



Or Right-click "Main Menu > Configuration", uncheck the Setup Wizard checkbox. Click the Save button.

2.4 Shortcut Menu

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



Right-click in live view mode and select screen from the Shortcut Menu, you can choose 4-screen, 8-screen or 9 screens.

2.4.1 Pair IP Camera

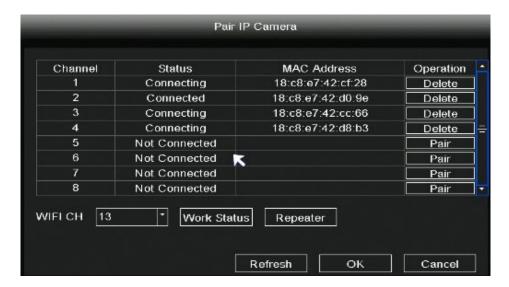
Right-click in live view mode and select **Pair IP Camera** to enter the **Pair IP Camera** interface, On this page you can see device status such as channel, Status, MAC Address, Remove and Add IP Camera.

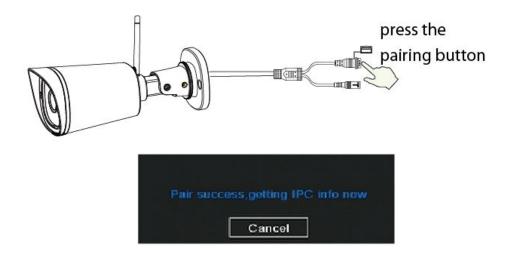


Note

The NVR and IP Camera are already paired. If you need to match more cameras (Only FI9910W), please refer to the following steps.

Click **Pair** button and press the Reset button of the camera tail cable at the same time, until it prompts that the pairing is successful. When finished code matching, The live view interface will show you the video feed of each IP Camera.





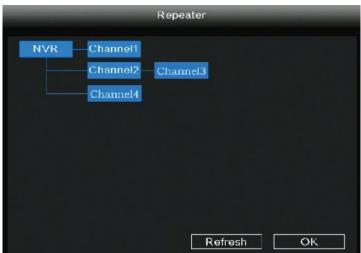
Auto Bridge

By new mesh network auto-bridging function, without any manual setting, wireless camera in further area will have a judgment about the WIFI signal and auto connect to the camera which have a better WIFI signal, to achieve more stable and reliable video transmission.

Auto bridging is designed to expand the coverage area of wireless signal, instead of enhancing the signal. When camera is a little far away from NVR, or there are too many interference factors/sources between them, camera in further area will auto bridge/connect to the one nearby to transmit the video data.

Right-click in live view mode to enter the **Pair IP Camera** interface, click **Repeater** button. Then, bridging relationship will be showed on the interface automatically.





2.4.2 Menu

Right-click in live view mode and select **Main Menu** to enter the **Main Menu** interface, it includes Configuration, Display, Record, Backup, Network, HDD, User, Event, Restore, Upgrade, IPC Config, please refer to **2.5 Main Menu**.

2.4.3 Playback

You can display the video of every a channel for playback.

Right-click in live view mode and select **Playback** to enter interface. It supports single-screen, four screens or nine screens.

On this page you can view the record files stored in the hard disk.



- 1. Select a date with recording in calendar.
- 2. Check the checkbox from Channels. You can select up to nine channels for playback at the same time.

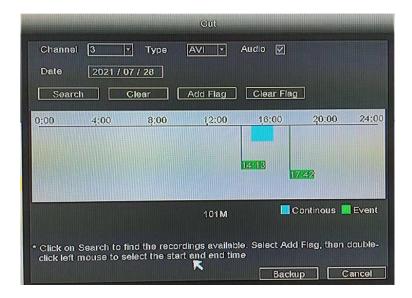
Manage the recording

Button	Description
> / II	After select the matched recorded file, click the button to play or pause.
	Stop
₽	Single Frame
4 1	Fast backward. The fast backward speed can be 4 times, 8 times or 16 times of the normal playing speed. Click this button. The multiple of normal playing speed is displayed in the lower right of the fast backward icon. For example, 41/4 12:36:04 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 or 16 times of the normal playing speed. Click this button. The multiple of normal playing speed is displayed in the lower right of the playback page. For example,
W	Audio
=	Backup. Click this button and you will go to the backup page
of	Cut. See below the table for details.
(Log. Click this button and you will go to the log page.
	Full Screen

Cut

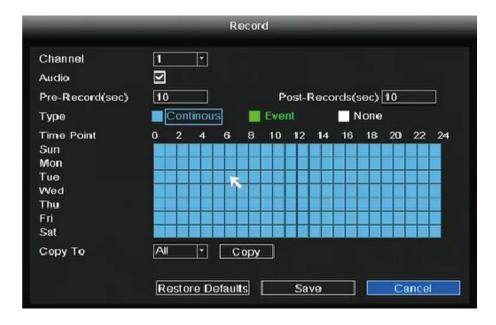
- Step 1: Click , you will go to the Cut interface.
- **Step 2:** Choose the **Channel**, **Type**, **Date**.
- Step 3: Click Search to find the recordings available.
- Step 4: Select Add Flag, then double-click left mouse to select the start time and end time.
- Step 5: Insert USB flash drive to the USB port located at the rear of your NVR.
- Step 6: Click Backup button to save the video information to the USB flash drive. Tips are available

after the backup is complete

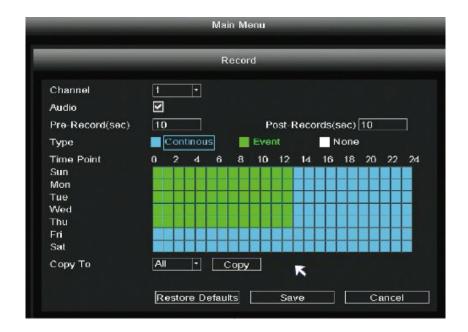


2.4.4 Record

Right-click in live view mode and select **Record** to enter **Record** interface. Choose recording channel, click **Save** button (Actually, the Wi-Fi NVR system have default set 24h scheduled recording).



If you want to modify it to alarm recording, please use the left mouse button to select the time (turned to green), if the other channels operate in the same way, select **copy** button.



If you want to check the record, right-click in live view mode and select "Main Menu > Playback". Choose channel and date, then click timeline to check record.

2.4.5 Backup

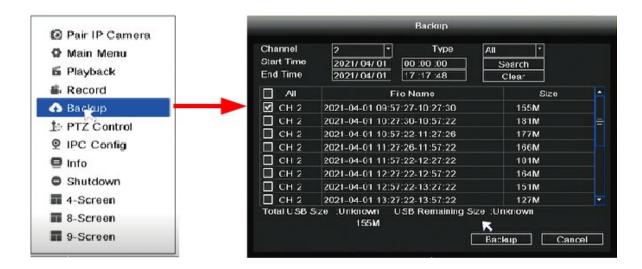
Insert USB flash drive to the USB port located at the rear of your NVR.

Right-click in live view mode select **Backup** to enter the **Backup** interface.

- Step 1: Choose channel, type and time.
- Step 2: Click Search button.
- Step 3: Select target file.
- Step 4: Click Backup button to finish backup.



If target file can not be searched out, please click empty to add. Please remove the files which is no need before backup. Ensure insert device (like USB) in 30 second, as system reserved searching time for it is 30 second.



2.4.6 PTZ Control

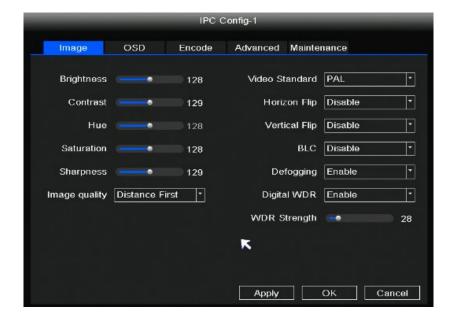
NVR can operate the lens steering of IPC, which must support PTZ function.

2.4.7 IPC Config

Right-click in live view mode and select **IPC Config** to enter the **IPC Config-1** interface. You can set the Image, OSD, Encode, Advanced, Maintenance for the IPC.

Image

Choose **Image** to enter the **Image** interface, On this page you can adjust the image color mode of the monitor channel.



OSD

Choose OSD to set the information on the screen for the IPC.



Encode

Choose **Encode** to set the information for the main stream and the sub stream.

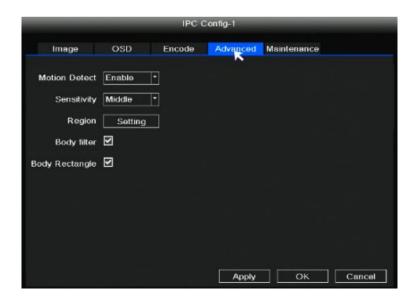


FN7108W-B4 kit will automatically configure the main/sub stream information according to the network environment, so it is not editable here.



Advanced

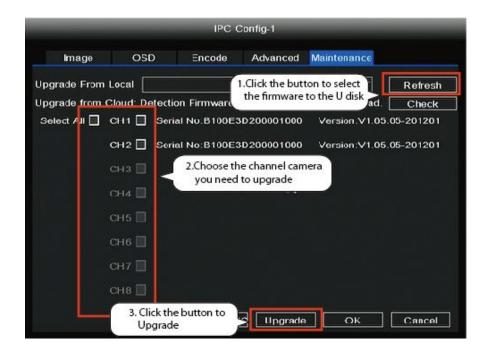
- Step 1: Choose Advanced to set the Motion Detection Record for the IPC.
- Step 2: Right-click in live view mode and select "Main Menu > IPC Config > Advanced".
- Step 3: Choose Enable from the Motion Detect.
- Step 4: Set Sensitivity, Region, Body Filter, Body Rectangle.
- Step 5: Click Apply button.



Maintenance

Choose Maintenance to set up the upgrade information for the IPC.

- Step 1: Download the firmware to the USB flash drive.
- Step 2: Insert USB flash drive to NVR USB port.
- Step 3: Right-click in live view mode and select "Main Menu > IPC Config > Maintenance".
- Step 4: Click Refresh button.
- **Step 5:** Choose the channel to update this camera or click **Select All** to upgrade your all cameras.
- Step 6: Click Refresh button.

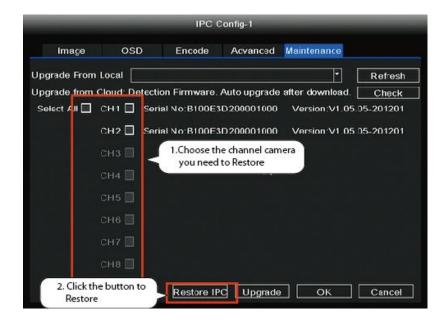


Note

- The upgrade file must be placed under the root directory of the USB flash drive.
- Don't lose power for during upgrade.

IPC Restore default:

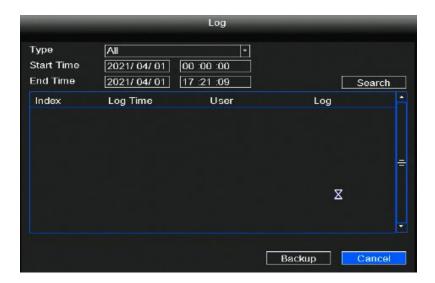
- Step 1: Right-click in live view mode and select "Main Menu > IPC Config > Maintenance".
- Step 2: Click CH to restore default this camera or click Select All to restore default your all cameras.
- Step 3: Click Restore IPC button.



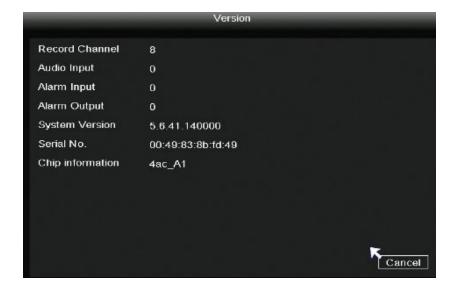
2.4.8 Info

Right-click in live view mode and select "**Info > log**", you can search the log information of the NVR. The log record shows recording time and accessed information.

If you want to back up the log information, please insert USB flash drive to the USB port located at the rear of your NVR, and then click the **Backup** button.



Right-click in live view mode and select "Info > Version", you can view the version information of the NVR.



2.4.9 Shutdown

Right-click in live view mode select **Shutdown** to enter the **Shutdown** interface. You can restore, logout, reboot or shutdown the NVR system.



Click **Restore**, The **Restore factory settings** interface is displayed. You can check some information to restore the factory settings, as shown in the figure below.



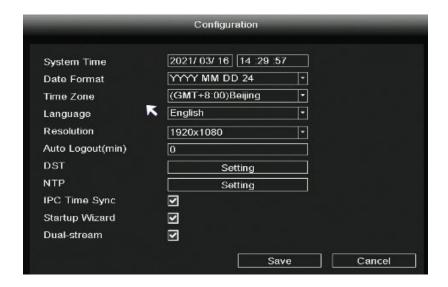
2.5 Main Menu

Right-click in live view mode and select **Main Menu** from the **Shortcut Menu**, the **Main Menu** interface is displayed.



2.5.1 Configuration

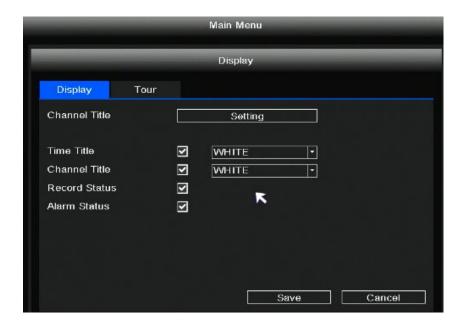
Right-click in live view mode and select "Main Menu > Configuration" in the Main Menu interface. The Configuration interface is displayed. You can set the system time, date format, language, resolution of the monitor and so on.



If you don't want to display the startup wizard every time you turn it on, please uncheck the **Startup Wizard** checkbox.

2.5.2 Display

Right-click in live view mode and select "Main Menu > Display" in the Main Menu interface. The Display interface is displayed. You can set the Channel Title, Time Title, Channel Title, Record Status, Alarm Status.



Right-click in live view mode and select "Main Menu > Display > Tour" in the Main Menu interface.

The Tour interface is displayed.

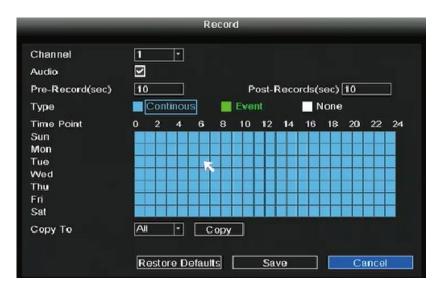
After the user sets the Tour function, NVR will play several channels of video on the display at the same time according to the interval time set by the user. After each channel plays for a few seconds, it will automatically jump to the next group of channels for cyclic playback.

- Step 1: Check the Enable.
- **Step 2:** Set the Interval(sec).
- Step 3: Click the add button to select which channel videos can be played within each group.
- Step 4: Click Save button.

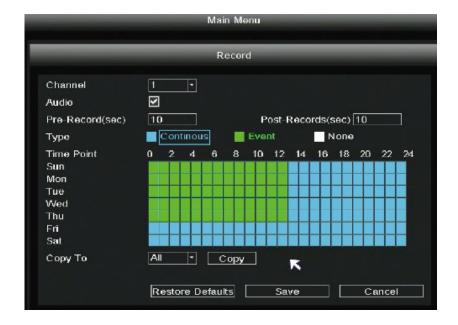


2.5.3 Record

Right-click in live view mode and select "Main Menu > Record" in the Main Menu interface. The Record interface is displayed. Choose recording channel, click Save button. (Actually, the Wi-Fi NVR system have default set 24h scheduled recording).



If you want to modify it to alarm recording, please use the left mouse button to select the time (turned to green), if the other channels operate in the same way, select copy.



2.5.4 Backup

- **Step 1:** Insert USB flash drive to the USB port located at the rear of your NVR.
- Step 2: Right-click in live view mode and select "Main Menu > Backup" in the Main Menu interface.

The **Backup** interface is displayed.

- Step 3: Choose channel, type and time, Click Search button.
- Step 4: Select target file.
- Step 5: Click Backup button.





If target file can not be searched out, please click Empty →Add. Please remove the files which is no need before backup. Ensure insert device (like USB) in 30 second, as system reserved searching time for it is 30 second.

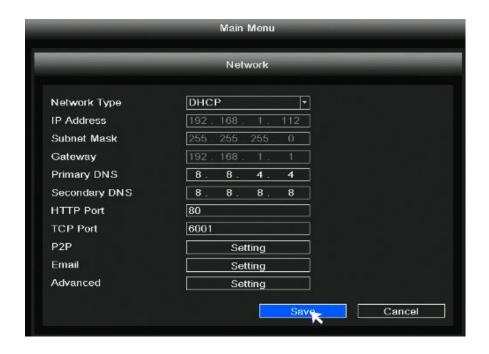
2.5.5 Network

Right-click in live view mode and select "Main Menu > Network" in the Main Menu interface. The Network interface is displayed.

There are two ways for NVR to connect to Internet.

- DHCP: Select **DHCP** from the **Network Type**, the device will connect to Internet automatically, no need data setting.
- Manual setting: Select STATIC from the Network Type, fill in IP address, DNS data, and so on, click Save button.

If user doesn't familiar about the network environment, please prefer use DHCP first.



2.5.6 HDD

Right-click in live view mode and select "Main Menu > HDD" in the Main Menu interface. The HDD interface is displayed.

When the HDD is full, you can select the cycle cover the earliest recording or stop recording.

You can set the video storage time.

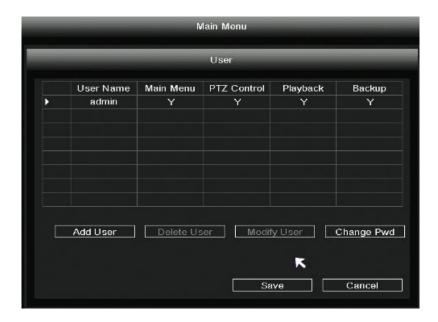
Click the Format button, you can also format the hard drive.



2.5.7 User

Right-click in live view mode and select "Main Menu > User" in the Main Menu interface. The User interface is displayed.

You can add user, delete user, modify user and change password.



Add User

Click **Add User** to enter the **Add User** interface, On this page you can add to user, user password and Authority Option.



Modify User

Click **Modify User** to enter the **Modify User** interface, On this page you can change user password and authority option.

Delete User

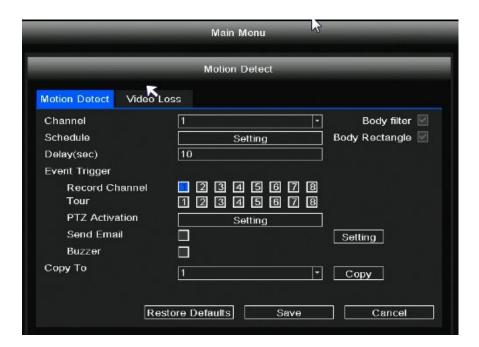
Click Delete User button to delete a user.

Change Pwd

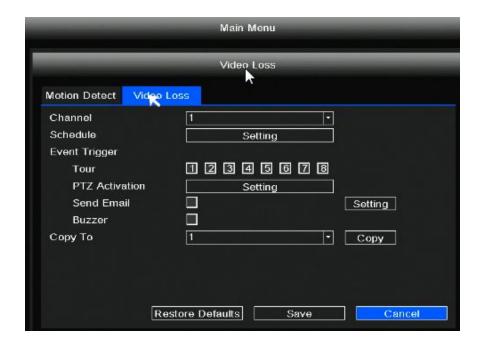
Click **Change Pwd** button to change password.

2.5.8 **Event**

Right-click in live view mode and select "Main Menu > Event" in the Main Menu interface. The Motion Detect interface is displayed. On this page you can setting Channel, Scheduled, Delay and Event Trigger mode.



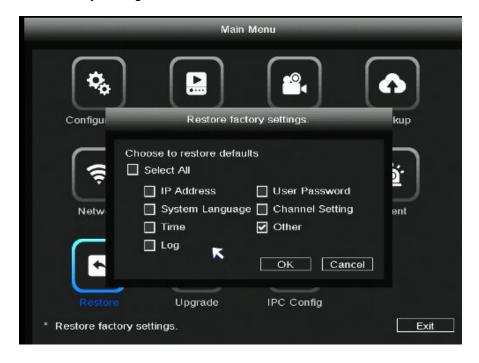
Click **Video Loss** to enter the **Videoloss** interface. When there is no video in the channel, the NVR alarm function is triggered. On this page you can setting Channel, Schedule, and Event Trigger.



If you want to set other channels to be the same, you can select the "Copy To", then click **Copy** button.

2.5.9 Restore factory settings

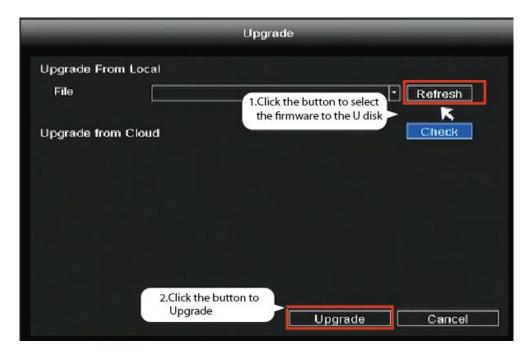
Right-click in live view mode and select "Main Menu > Restore factory settings" in the Main Menu interface. The Restore factory settings interface is displayed. On this page you can choose which you can restore the factory settings.



2.5.10 Upgrade

You can upgrade your NVR system with local Software.

- **Step 1:** Download the firmware to the USB flash drive.
- Step 2: Insert USB flash drive to the USB port located at the rear of your NVR.
- **Step 3:** Right-click in live view mode and select "**Main Menu > Upgrade**" in the Main Menu interface.
- Step 4: Click Refresh button in the Upgrade interface.
- **Step 5:** Select the firmware from the USB flash drive.
- Step 5: Click Upgrade to upgrade your NVR.





Don't shut down the power during upgrade. After upgrading, NVR restarts.

2.5.11 IPC Config

Right-click in live view mode and select "Main Menu > IPC Config", you can set the Image, OSD, Encode, Advanced, Maintenance for the IPC. For detailed operation, please refer to 2.4.7 IPC Config.

2.5.12 Channel Config

Right-click in live view mode and select "Main Menu > Channel Config" to enter the Pair IP Camera interface . please refer to 2.4.1 Pair IP Camera.

3 Access the NVR in Foscam App

3.1 Download the Foscam APP

Please refer to the *Quick Setup Guide* if you install the NVR for the first time. You can start to learn about software operation after finish quick installation.

Scan the QR code below to download and install the Foscam APP.



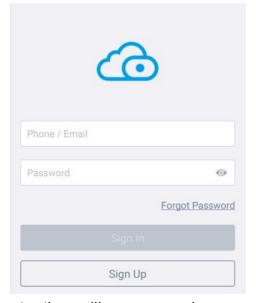




3.2 Create A Foscam Account

You can create a Foscam account for the first time. Run the Foscam APP, and then register for a Foscam account.

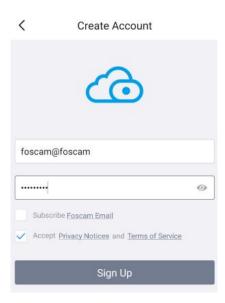
Step 1: Click Foscam app icon to enter the login page. Click Sign Up to create account.





Step 2: You need to choose your region, then enter the mailbox name and new password.

Step 3: Check Accept Privacy Notices and Terms of Service, and click Sign Up.



Step 4: The system will send activation information to your mailbox, and you need to log in to your mailbox to activate your account.

3.3 Add Device in Foscam App

Open the foscam APP and please sign in if you have one already. After logging into Foscam APP, select "+" icon on the upper right corner. The Add Devices interface is displayed.



Please make sure that the NVR and your phone are both in the same Local Area Network (LAN).



You have the following methods to add devices.

• Select "Scan the QR code" and scan the QR code that labeled at the bottom of your NVR.

- Select "Search in LAN" to search for the device.
- Select "Others", You can manually add device information in three ways: UID/DDNS/IP Address.

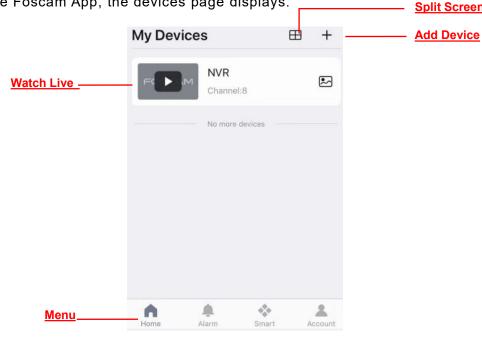


FN7108W-B4 kit does not support DDNS connection.

After the addition is successful, NVR video will be displayed in the Foscam app.

3.4 Foscam APP Surveillance Window

You can start to learn about software operation after finish quick installation. When you launch the Foscam App, the devices page displays. _______ Split Screen

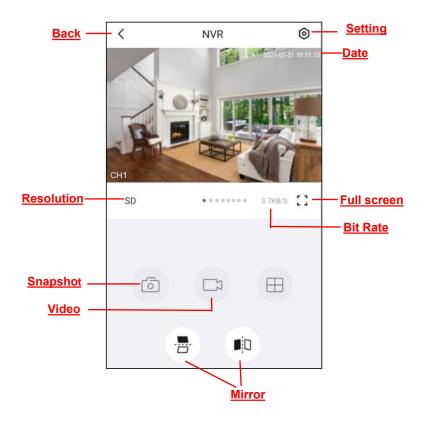


Click button, you can watch the live interface of 4 devices.

Tap **Live** to view and listen to a live video.

3.5 Watch Live

Click device in list to enter preview interface, select a channel to view it's picture, as follow shows:



Back: To stop viewing and listening to the live feed, tap the Back.

Resolution: There are two types to identify different streams you have set. If select the FHD Mode, the clearer video will become, and it will take up more bandwidth; If select the SD Mode, the video will not be as clear as FHD Mode, and it will take up less bandwidth.

If you want to catch the smaller details, pinch and drag any image as you do with photos on your smart phone.

Snapshot: Click this button to Snapshot the image.

Video: Click this button to start the recording function.

Setting: Click this button to set more.

Date: Display the date.

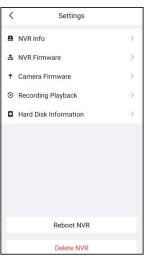
Full screen: Click this full screen button, you can live in full screen.

Bit Rate: You can see the current connection bit rate.

Mirror: You can flip the image horizontally/vertically with this button.

3.6 Setting

Tap the button, goes to Settings to make advanced NVR settings.



3.6.1 **NVR** Info

You can modify the NVR name. You can also see the basic information of the NVR through this, such as NVR model, UID, MAC ID, NVR firmware version information, IPC firmware version information.



3.6.2 NVR Firmware

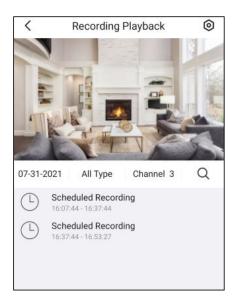
You can see the current NVR's firmware version and whether there is new software that needs to be upgraded.if there is new firmware, you can click the "Upgrade" button to upgrade.

3.6.3 Camera Firmware

You can see the current camera's firmware version and whether there is new software that needs to be upgraded.if there is new firmware, you can click the "Upgrade" button to upgrade.

3.6.4 Recording Playback

You can query the recording playback content according to the time, type, and channel.

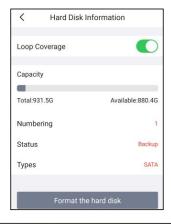


3.6.5 Hard disk information

When the HDD is full, you can check the Loop Coverage to select the cycle cover the earliest.

You can see the HDD information of the NVR.

You can format the hard information by clicking the Format the hard disk button.

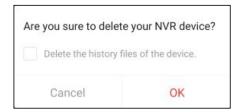


3.6.6 Reboot NVR

Click **Reboot NVR** to reboot the NVR. This is similar to unplugging the power to the NVR.

3.6.7 Delete NVR

You can click **Delete NVR** button to delete the NVR from the app, or delete and keep history files from the app.



4 Surveillance Software Foscam VMS

Foscam VMS is a new tool for PC. It does not require plug-ins and is compatible with Windows & Mac, It supports all Foscam HD cameras and up to 36 cameras at the same time.

It is recommended that you first use the cloud account registered by the Foscam app, and then use the local account.

4.1 Software Installation

If you would like to manage multiple cameras, we suggest you install the Foscam VMS.

You can download and install the "Foscam VMS" in the following ways.

- Windows: foscam.com/vms
- Mac version from the APP store: https://apps.apple.com/cn/app/foscamvms/id1521202507?mt=12
 After the installation is complete, the picture shown below will appear.





Please make sure that the NVR and the computer are both in the same Local Area Network (LAN).

4.2 Create A Local Account

You can create a local administrator account.

For security, it is strongly recommended to create local accounts and password management, which prevents the entry of intruders.

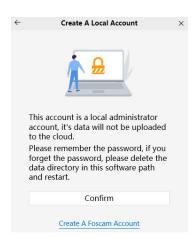
Step 1: Click Foscam VMS to run Foscam VMS.



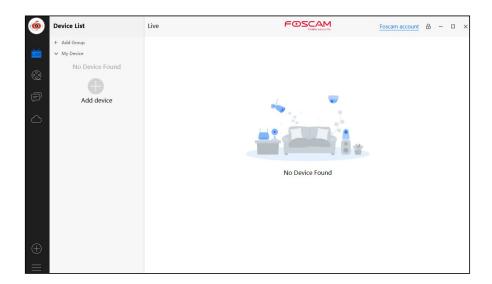
Step 2: Click Login with Local Account to enter the Create A Local Account interface.



Step 3: Enter the account and password, then click Create button.



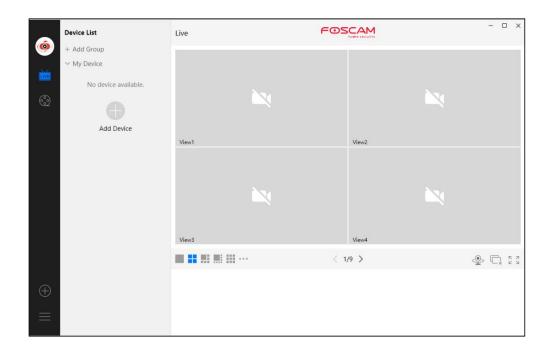
Step 4: Click Confirm button to enter the main interface.



4.3 Add Device

If your NVR is wired connect, you can choose the following method to add to FoscamVMS.

4.3.1 LAN Add

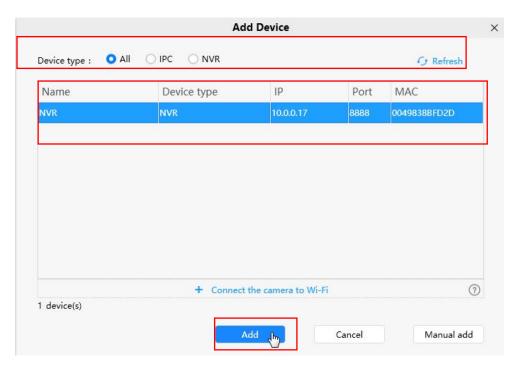


Click **Add Device** button, then follow below steps:

Step1 Select "ALL" from the device types.

Step2 Click the IP address of the NVR on the list, then the name of the NVR and the IP information will be entered automatically.

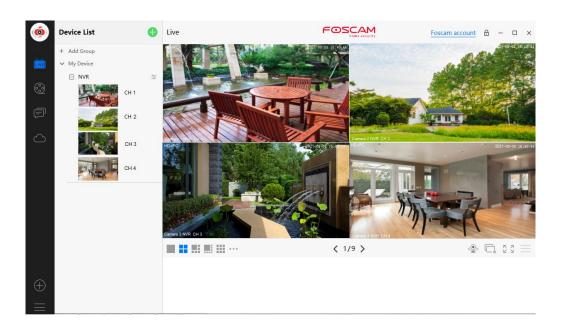
Step 3 Click Add.



Step 4 Enter the username and password of the NVR.



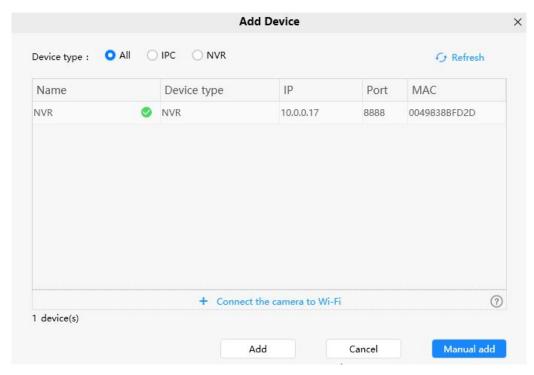
Step 5 Click Add button to finish adding.



4.3.2 Manual add

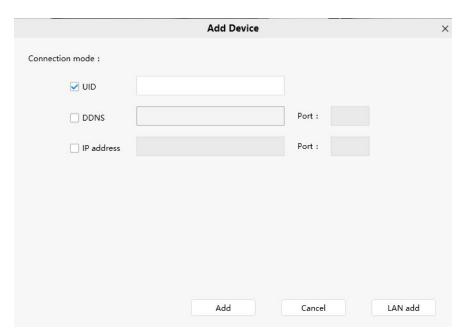
You can add the NVR use manual add.

Step 1 Click Manual add first.

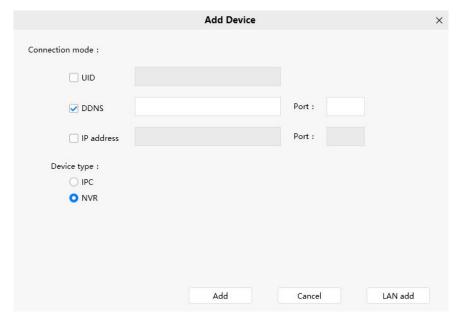


Step 2 There are three ways to connect mode, you can choose any one.

• Check **UID** from Connection mode. Enter the UID of the device.



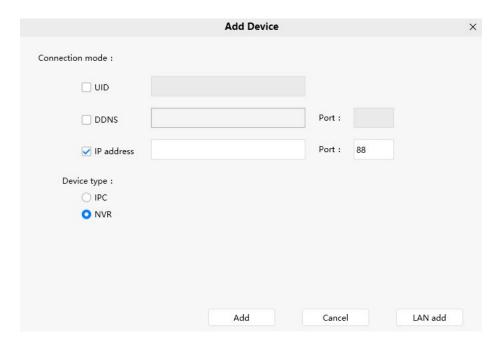
Check DDNS from the Connection Mode. Enter the DDNS and Port of the NVR. Select NVR from the Device types.





FN7108W-B4 kit does not support DDNS connection.

• Check **IP address** from the Connection Mode. Enter the IP and Port of the NVR. Select **NVR** from the Device types.



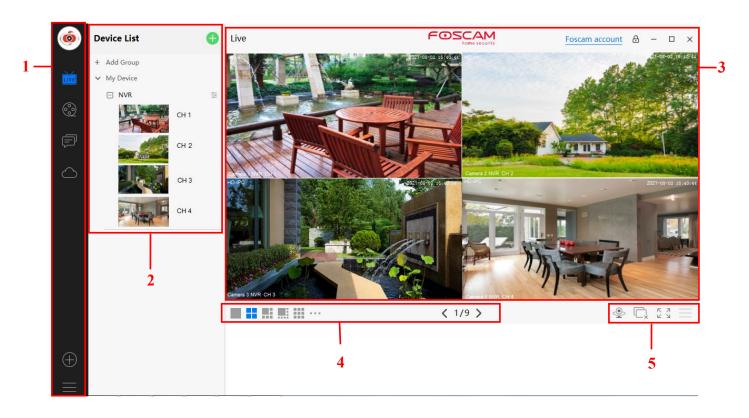
Step 3 Click Add button.

Step 4 Enter Device account and Password of the NVR.



Step 5 Click Add button to finish adding device.

4.4 Surveillance Software GUI



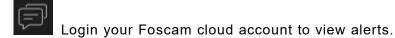
First time you login the software, the whole video window is gray, you need to connect the NVR and add NVR to it.

Section1 Menu Bar

Path to surveillance window. Click this button enter to Device List and back to the surveillance

window.

Playback the video recording, you can choose Cloud Playback, SD Card Playback, NVR HDD Playback or Local Playback.



Login your Foscam cloud account.

Add Device, please refer chapter **4.3 Add Device** for the detail setting.

More, You can Setting Personal Account, Preference, My coupon, Log Query, Left

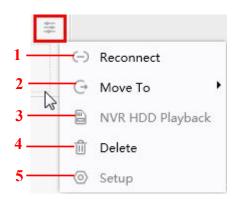
Bar and Switch Account.

Section2 Left Bar

Add Group: Click the + Add Group button, you can group the device list according to your needs.

Left Bar of Live: You can view the list of connected NVRs.

Select the icon on the right side of the NVR list to do the following.



1----Reconnect

Click Reconnect button and the device will reconnect.

2---- Move To

Click this button, you can move the device to your group list.

3----NVR HDD Playback

If you have an HDD on your device, click this button to enter the NVR HDD Playback.

4----Delete

Click the button, Delete the device.

5---- Setup

Click Setup button, goes to Device Settings Control Panel to make advanced NVR settings.

Section3 Live Window

When the mouse is placed on the video, the icon shown on the following figure appears.



Click the icon to close this channel live window

2----Device Name

Show view channel and camera name.

3----Recording and Alarm status

This icon will turn to red, it indicates that the camera is recording

This icon will turn to yellow, the motion is detected during the detection time in the detection area, the camera alarm and adopt the corresponding alarm indicators

4---- Record / Snap Shot / Sound



Record ----- Click it and do manually recording. When recording, icon 1 will turn to blue. Click it again and stop recording. The recording files will be stored to C:\VMS_RECORD automatically.

Snap Shot ----- Click it to make snapshot. After snapshot, the button banner will prompt **Captured Successfully**. And you can find the picture on default path C:\VMS CAPTURE.



Sound ----- Click the icon then you will hear sound captured by the camera's built-in microphone. You may need to plug in earphones or enable the computer speakers to hear from the camera's microphone. Make sure the camera supports audio. Click again and stop audio.

Section4 The number of split-screen

Click this button to select the number of split-screen on one page.



The client can monitor many cameras at one page, here you can choose the display number. The maximum number is 16.

Section5 Live Cruise / Close All / Full Screen / Hide Bar



Live Cruise ----- Click this button to Live Cruise, you can click button to add a loop page for live Cruise or click button to reduce the loop page for live Cruise.



Close All ----- Click this button to close all the cameras

Full Screen ----- Click this button to enter full screen, then click to exit full screen.

Hide Bar ---- Click this button, Hide and show Pan / Tilt control Bar

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:

- Number of the channels: Number of channels where you need to enable recording.
- Time in need (hour): Time you need to record.
- 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**.
- -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)=
$$\frac{4Mbit}{8hit}$$
*3600 =1800M/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 Specifications

NVR	Model	FN7108W-B4-1T	
Video Input	IP Video Input	8 Channels FHD IP camera input	
Video Output	HDMI Output	1×HDMI	
	VGA Output	1×VGA	
	Display Resolution	1920x1080,1440x900,1280x1024,1280x720,1024x768	
	Recording Resolution	1080P per channel (8ch@1080P)	
Recording	Record Mode	Time Scheduled / Human Detect	
	Compression Format	H.264+	
Blovbook	Synchronous Playback	8 channel 1080P synchronous video playback	
Playback	Playback Mode	Pause / Stop / Slow / Fast/ Frame Play	
HDD	HDD	1TB security grade hard drive (pre-installed)	
טטח	Capacity	Up to 6TB	
	Network Interface	1× 10/100 Mbps RJ45 port	
External Interface	USB Interface	2× USB2.0 interface for mouse and external storage	
	Button	1× Reset button	
	Ethernet	One 10/100Mbps RJ45 port	
Nativoule	Wireless Standard	IEEE802.11b/g/n	
Network .	Wireless Security	WPA, WPA2	
	Network Protocol	IP、TCP、UDP、SMTP、DHCP	
Software	Computer Operating	Microsoft Windows XP, 7, 8, 8.1, 10, Mac OS	
Software	System	IVIICIOSOIL VVIIIUOWS AF, 1, 0, 0.1, 10, IVIIC OS	

	Internet Viewing	N/A
	Smart phone	iOS, Android, 3G/4G Smartphones
	Language	13 languages (Chinese、English、Russian、Japanese、Arabic、
Language		Spanish、German、Portuguese、French、Korean、Italian、Thai、Romanian)
Physical and Environmental	Power Supply	DC 12V/2A
	Dimension(LxWxH)	234mm*234mm*52mm
	Net Weight (g)	660g
	Operating Temperature	0°C ~ 55°C (32°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

Camera	Model	FI9910W
_	Sensor Type	1/2.7" CMOS
	Video Quality	1080p (1920*1080)
Image Sensor	Wide Dynamic Range	N/A
	Backlight Compensation	√
	Lens Type	f:4mm, F:2.0
Lens -	IR Range	65ft(20m)
	Infrared Mode	Automatic
	Diagonal Angle of View	94°
	Video Format	H.264+
	Multi-Stream	Dual streams
Software Features	Human Detection	√
	Day/Night	√
	Waterproof	IP66
Physical and Environmental	Net Weight	360g
	Power	DC12V

Power Consumption	<5W
Dimension(LxWxH)	97(L)x67(W)x64(H)
Certification	FCC、CE、IP66
Warranty	Limited 2-year warranty
Operating Temperature	'-10°C~ 55°C (14°F ~ 140°F)
Operating Humidity	10% ~ 80% non-condensing
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Storage Humidity	0% ~ 90% non-condensing

5.3 FAQ

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

- Verify the device is connected with the monitor via HD-OUT or VGA cable.
- Verify the connection cable is good.
- 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 HD-OUT output, then the input mode of monitor must be the HD-OUT 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".

Verify the system time setting is correct.

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

Verify the search condition is correct.

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

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:

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

4. 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.

5. 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.

5.4 Glossary

Acrony m	Term	Description
DDNS	Dynamic Domain Name Server	Dynamic DNS is a method, protocol, or network service 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 Configuration Protocol	DHCP is a network application protocol used by devices (DHCP clients) to obtain configuration information for operation in an Internet Protocol network.
HDD	Hard Disk Drive	A storage medium which stores digitally encoded data on platters with magnetic surfaces.
PPPoE	Point-to-Point Protocol over Ethernet	It is a network protocol for encapsulating Point-to-Point Protocol (PPP) frames inside Ethernet frames. It is used mainly with ADSL services where individual users connect to the ADSL transceiver (modem) over Ethernet and in plain Metro Ethernet networks.
PTZ	Pan, Tilt, Zoom	PTZ cameras are motor driven systems that allow the camera to pan left and right, tilt up and down and zoom in and out.
NTP	Network Time Protocol	A protocol designed to synchronize the clocks of computers over a network.
NVR	Network Video Recorder	A NVR can be a PC-based or embedded system used for centralized management and storage for IP cameras.
VMS	Video Management System	Foscam VMS is a new tool for PC. It does not require plug-ins and is compatible with Windows & Mac, It supports all Foscam HD cameras and up to 36 cameras at the same time.

5.5 CE & FCC

Electromagnetic Compatibility (EMC)

FCC Statement



This device compiles with FCC Rules Part 15. Operation is subject to the following two conditions.

- This device may not cause harmful interference.
- 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 A 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



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

5.6 WARRANTY

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.

Limited Hardware Warranty

- The 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:
- Software, including the software added to the products through our factory-integration system, software, etc.
- Usage that is not in accordance with product instructions.
- Failure to follow the product instructions.
- 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.
- 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

- 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.
- Warranty is void for mishandling, improper use, or defacing the product.
- 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.
- Damage caused by improper installation of third-party products.
- Warranty is void if damaged for irresistible cause, such as earthquake, fire, lightning, flood, etc.
- 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.
- 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.
- Different region may have different service fee, please contact the point-of-purchase to confirm that before you ask for this service.
- 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.

All rights reserved. FOSCAM and the Foscam logo are trademarks of ShenZhen FOSCAM Intelligent Technology Limited., registered in the U.S. and other countries.

5.7 Statement

You are advised to be cautious in daily life, keep personal account information carefully, do not share personal account easily. Change passwords of your account and equipment periodically, and upgrade equipment firmware to strengthen security consciousness.

Our company makes no warranty, implied or otherwise, that this product is suitable for any particular purpose or use. You need to abide by the relevant laws and regulations of the use restrictions when using products. Our company takes no responsibility of illegal activities by using our products.

Our company takes no responsibility of the loss by force majeure, such as failure or faults of telecom system or the Internet network, computer viruses, malicious attacks of hackers, information damage or loss, and faults of computer system.

My company does not need to take any responsibility of the special, incidental or corresponding loss by the products of our company or any software provide by our company, including but not limited to operating loss, profit or purpose. The company only takes the responsibility applicable to national and local legal requirements.

Our company takes no responsibility of the loss caused by the following at ant time:

- 1) loss of purchases;
- 2) loss of intangible property damage, such as data, programs;
- 3) loss of compensation claimed by third-party customers.

Delete images, format the memory card or other data storage devices does not completely remove the original image data. You can restore deleted files from discarded the storage device by commercial software, but which will potentially lead to personal image data used maliciously by others. The privacy of the data security belongs to user responsibility, the company takes no responsibility.

Parts mentioned in this statement should not be understood by the configuration description of the product purchased by the customer, the product configuration must accord to the specific models purchased by the customer.

Without the prior written permission of my company, all the contents of relevant operating instructions manual affiliated to the product must not be reproduced, transmitted, transcribed or stored in a retrieval system, or translated into other languages.

Our company will reserve the right to improve and modify the product and corresponding manuals.

The company reserves the right of final interpretation on our products.

5.8 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 device, please first contact reseller for solving the problems.

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

support@foscam.com





CE Certificate statement Website:

https://www.foscam.com/company/ce-certificate.html

Exporter and Importer Information Opened to Public:

https://www.foscam.com/company/open-information.html

www.foscam.com

Due to product upgrades and other reasons, this guide may be slow to update, resulting in slight inconsistencies with the official website information. Please take

The official website (www.foscam.com) information as the current standard.

Manufacturer: Shenzhen Foscam Intelligent Technology Co., Ltd

Addr: Room 901, Unit B, Building 7, Xingke 1st Street

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