



# SDR 0404WK WIFI NVR KIT MANUAL



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This product is an excellent digital monitoring device specially designed for the security field. Embedded LINUX operating system is adopted to make the system run more stably; The standard h.265 video compression algorithm and the unique temporal filtering algorithm are adopted to realize the synchronous audio and video monitoring with high picture quality and low bit rate. The powerful network service function greatly improves the network data transmission ability and the remote control ability.

## First Part Basic operations

### 1. Basic Installation

#### 1.1 HDD Installation

When you first use it, first install the hard disk. Number of hard disks installed according to requirements and product specifications.

**Note:** If no hard disk is installed, the device can be operated normally for monitoring, but cannot be recorded and played back normally.

#### 1.2 Mouse Connection

The back panel has 2 USB ports can be used for mouse USB disk and WIFI module.

### 2. Boot

Connect to the power supply, the power lamp will be on, and the video recorder will be started. After the start up, you will hear the sound of beeper "di", and the default video output mode is multi-screen output mode.

**Note:** After the abnormal power failure is restored, the equipment will be automatically restored to the status before the power failure.

### 3. Power Off

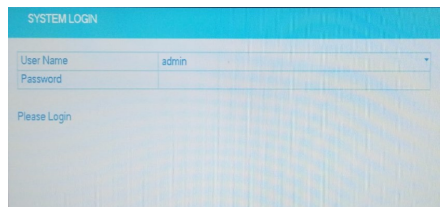
Turn off equipment enter [main menu] > [turn off system] and select [turn off], then shutdown the power (immediately turn on the power may cause system data loss, please use with caution)

**Note:** The configuration should be saved before replacing the battery on the main board, otherwise all the configuration information will be lost.

### 4. Login

After the device boots up, the user must login and the system provide the corresponding functions according to the permissions of the logged in user.

When the device is delivered, there are two preset users: admin and guest, no password by default. The factory preset user of admin is with superuser privileges; the factory preset user of guest is with permissions for preview and video playback.



**Password Protection:** If the password is entered wrong for 6 times consecutively, there will be alarm to lock the account (after the system reboot or half an hour, the locked account will be unlocked automatically). For security reasons, please change the user name and password in the “User Management” in time.

### 5. Preview

After normal login of the device, it enters the state of multi-screen preview.

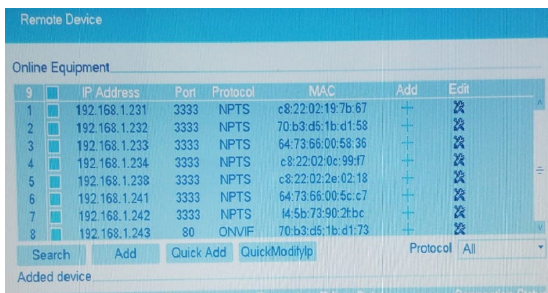
In the preview channel, the date, time and channel name can be displayed, and each screen can display the video recording and alarm status of the monitoring channel. The normal interface has the following icons: channel name, channel video logo, channel audio logo. When the alarm is triggered, it will appear: video detection, video shade, video loss and other warning status signs.

## 6. Paired IPC

### 6.1 Add and Paired IPC

Operate:

- 1.Right mouse click -> main menu -> camera management -> pairing -> search -> add, automatically add LAN IPC for all channels.
- 2.Right mouse click -> camera manager -> manager -> pairing -> search -> add



9	IP Address	Port	Protocol	MAC	Add	Edit
1	192.168.1.231	3333	NPTS	c8:22:02:19:7b:87	+	✕
2	192.168.1.232	3333	NPTS	70:b3:d5:1b:d1:58	+	✕
3	192.168.1.233	3333	NPTS	64:73:66:00:58:36	+	✕
4	192.168.1.234	3333	NPTS	c8:22:02:0c:99:f7	+	✕
5	192.168.1.238	3333	NPTS	c8:22:02:2e:02:18	+	✕
6	192.168.1.241	3333	NPTS	64:73:66:00:5c:c7	+	✕
7	192.168.1.242	3333	NPTS	14:5b:73:90:2b:c7	+	✕
8	192.168.1.243	80	ONVIF	70:b3:d5:1b:d1:73	+	✕

Search Add Quick Add QuickModifyIp Protocol All

Added device

#### Online device

[pair] Click the button, then press the IPC pairing button for a long time 5-8 seconds.

[Search] Click search, and IPC information as shown in the figure appears

[Add] Check the IPC to be added and click the button to add it.

You can also click the add icon **+**, Or double-click the online IPC to add.


[One Key Add] Click the button to add an IPC within the LAN for all empty channels.

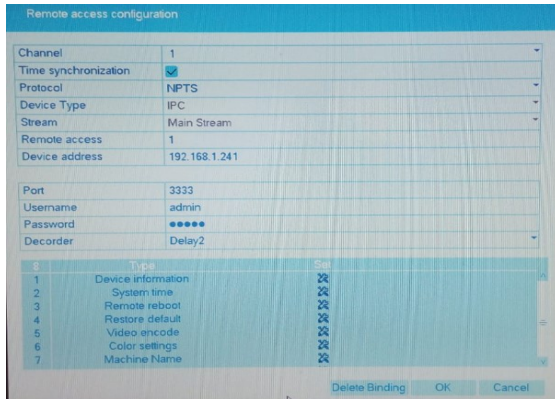
[Protocol] Private protocol.

#### Added device

[Delete] Select the added IPC, click the button to delete, or click the delete button **✕**.

### 6.2 Remote configuration IP Camera

Select the IPC in the added device and double-click, or click the edit button after the IPC , then the remote channel configuration interface pops up.



[NTP] Synchronize the IPC time with the local NVR time

[Username] Login username of IP camera (by default “admin”)

[Password] Login the password of IP camera (by default “siera”)

[Delete]Delete IPC

### Remote configuration IP Camera List

[Device Information] Double-click or click the edit icon to view the basic information of IPC

[System Time] Edit the time of IP camera

[Remote Reboot] Reboot IP camera

[Restore] Restore the default configuration of IP camera.

[Video Encoding Setting] Configure video parameters of IPC, such as resolution, frame rate, bit rate, picture quality, etc.

[Image Color] Adjust the brightness, contrast and saturation of IPC image.

[Device Name] Modify the channel name of IP camera.

[Remote Upgrade] Click remote upgrade, enter the upgrade interface, select the file to upgrade.

**Note:** Modify the NVR channel name ( system Settings -> output mode interface ) .

### Quickly operate

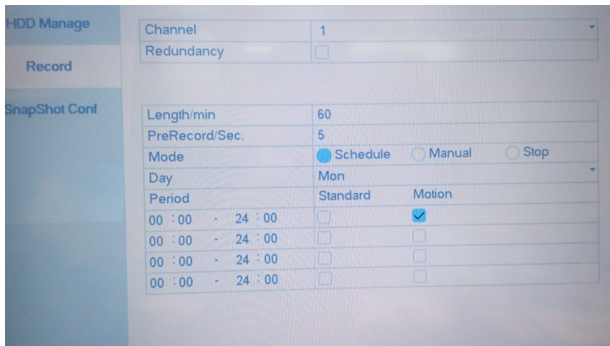
Preview interface, Click icon  to add remote device, Click icon  to remote configure IP Camera.

## 7. Recording Setting

The recording setting mainly includes the length setting, pre-recording time setting, time period

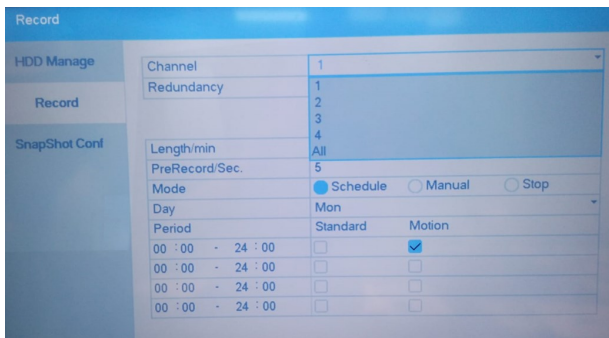
setting, Find the setting interface: [main menu]→ [recording function] →[recording setting].The interface is as follows. The Settings displayed are the default Settings of the system.

**Note:** If use the device recording, at least one of the installed hard disk is set as a read-write disk.



## 7.1 Channel Selection

Methods 1: Click the drop-down button on the left mouse button, select the channel number to be set, and select "all" for all channel Settings.



Methods 2: Place the mouse arrow over the channel number, scroll the mouse wheel, and select the channel number to set.

## 7.2 Redundant

Select the redundancy function to realize the dual backup function of video files, which is to record the video of a certain channel on two hard disks at the same time. The device requires two hard disks, one for read-write and one for redundancy.



## 7.3 Length

In the case of normal recording (no alarm recording is generated in the middle), the default time length of each video file is 60 minutes.

## 7.4 Pre-Record

Prerecord means that when an alarm signal is detected, a detection video or an alarm video is made, and the video shall be recorded from the prerecording time before the alarm signal is generated. For example, the pre-record time is set to 10 seconds, and an alarm signal is detected at 10:00 to start recording the detection file. The recording time of this video is 9:59:50.

The purpose of setting the pre-record time is to allow the user to view a certain period of time before the alarm signal is generated and the situation within the detection range according to the detected video.

## 7.5 Record Mode

Recording mode is divided into manual mode, close mode and configuration mode

**[Manual]**When the front circle is shown as "black", it is selected, otherwise it is not selected. No matter what state the channel is, select the "manual" button, the corresponding channel will record the video manually and generate H format file;

**[Close]**When the front circle is shown as "black", it is selected, otherwise it is not selected. No matter what state the channel is, select the "close" button and the corresponding channel will stop recording.

**[Configuration]**When the front circle is shown as "black", it is selected, otherwise it is not selected. Select [configuration], and also set [record type] and [time period].

**[Record type]** There are three types of video recording: regular, detection and alarm.

**Regular:** During the set period, video recording is working, and the video file type is "R";

**Detection:** In the set period of time, "motion detection", "video shade" and "video loss" alarm signals are triggered, and when the corresponding alarm function is set to turn on the recording function, the "detection video" status is started, and the video file type is "M";

**Alarm:** In the set period of time, the external alarm signal is triggered, and the "alarm input" function is set to start the status of "detection video" when the recording function is turned on, and the video file type is "A".

● **[Time Period]** Set the time period of recording, and the recording will be started within the set time range.

Set the time of day and week. Set up a maximum of four time periods, which can be continuous, interrupted and repeated. At the end of each period, there are three file formats of common, detection and alarm.

**Example:** as shown in the interface below (select configuration, Sunday), the video recording of Wednesday is described below according to the setting of time period.

00:00 -- 3:00 during this period, only regular video recording, not video detection and external alarm video recording. The video format produced is regular video, R format file.

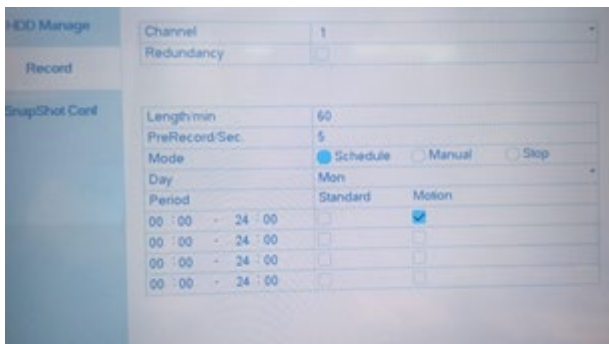
03:00 -- 09:00 during this period, if the video detection alarm is generated and the video is linked, the detection video file will be recorded, and no file will be recorded if there is no record.

Between

08:00 -- 09:00, no files are recorded


09:00 -- 11:00 during this period, if an external alarm is generated and the video is linked, the alarm video is recorded, A format file.

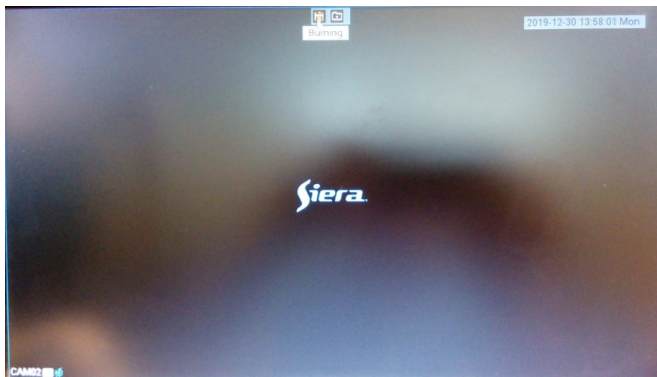
11:00 to 24:00 during this period, if the video detection alarm is generated and the video is linked, the detection video, M format file will be recorded; if the external alarm is generated and the video is linked, A format file will be recorded.



When selecting the video format, users shall set each channel according to their own needs, and it is recommended to use the default (the default is that the time period is 24 hours in a continuous period, configuration, regular, detection and alarm selected at the same time).

## 7.6 Instant Recording

The device is connected to the U disk, and click the instant recording button in the channel menu in the preview interface . Then, the current video can be recorded into the U disk, and the button will turn red in the recording process. Click the button again and the prompt of burning will pop up. After confirmation, a video file in the format of h.264 will be formed on the U disk, as shown in the figure below.

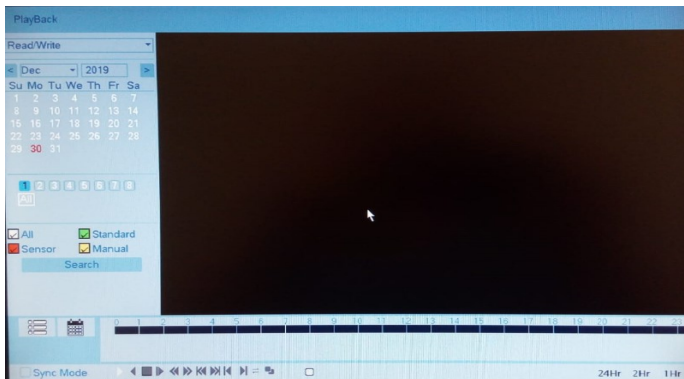


## 8. Playback


Recording playback mainly includes recording query, recording file playback and other operations.

Open recording playback methods:

- 1, click the right mouse button in the preview interface, pop up the menu, and select [video playback] in the menu;
2. [main menu]→[recording function]→[recording playback]. The interface for video playback is as follows:



## 8.1 Recording Query

Select the date and playback channel to complete the query, click  Jump to the query interface.

In this interface, the user can select the query again

### Time period query












### Recording mode query



If there is a corresponding video in the input query condition, the video file of the query is displayed in the list on the right side of the video playback interface, and the list can hold up to 128 files.

## 8.2 Recording Play

Double-click the file in the list to play, or you can click the play button.


	Play
	Upside down the recording
	Stop
	Slow
	Quick run backward
	Quick play
	Previous file
	Next file
	Previous frame
	Next frame
	Loop control
	Full screen display

All of the above buttons can be operated.

"Previous frame" and "next frame" operation cannot be operated when playing, the file cannot be operated in gray when playing, and can only be used when the file is paused. Can single frame forward broadcast and every 2 seconds back.

End playback: click the right mouse button in the playback interface and select "stop playback".

## 8.3 Slice Playback

Enter the recording playback interface, select "Slice playback" in the upper right corner, then select the slice playback channel, and click the time search in the lower right corner . Select the time period to slice and play back, or simply click a time point on the timeline to slice and play back The picture below. The slice playback period of the recording is in units of the packing time set for the recording. If there is an alarm recording, it shall be sliced with the length of the alarm recording file.

Rules of slicing: it can be divided into 1 slice, 4 slices.

For example, four channel slice.

If the recording time is too short, only one slice will be cut, and if the recording time is longer than a

certain amount, for example, two slices will be cut in 10 minutes or 12 minutes, three slices will be cut in 18 minutes, and four slices will be cut in 24 minutes. And then the length of the recording over 4 to slice.

## 8.4 Channel Playback

Choose any channel in each channel, the realization of several images at the same time play a channel of recording or play different channels,, as shown in the figure below, respectively choose the channel 1, 1, 1, 2, the playback footage broadcast channel main stream 1,1channel main stream, ,1 channel sub-stream, channel 2 main stream recording.(note: A stands for sub- stream)

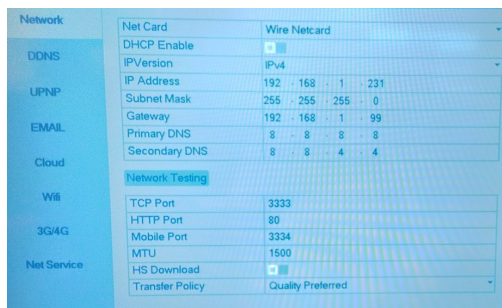
## 9. Network Setting

Through [main menu] > [system Settings] > [network Settings], set the local network.

[IP address]: factory default value 192.168.1.250;

[subnet mask]: factory default value 255.255.255.0;

[default gateway]: factory default value 192.168.1.1.



It is necessary to set the IP address of the device in the same network segment as the router. If the IP address of the router is 192.168.1.1 and the subnet mask is 255.255.255.0, the default setting can be followed. Generally, the default gateway is the IP address of the router. Enter the device IP (192.168.1.18) in IE to access the device within the LAN. If image monitoring is needed for the remote access device in the public network, the specific settings can be referred to the guidance on network settings.

# 10. Motion Detection Setting

Before NVR enables motion detection and alarm, make sure that the IPC motion detection and alarm are enabled, and then set the following Settings.

## 10.1 Alarm function setting

Select the channel to be set, and choose [enable]

### 10.1.1 Protection and removal period of time

Click "Settings" after "Protection and removal period of time", and the setting interface pops up (the default is 24 hours detection, it is suggested that users use the default and do not modify). The following figure.



First select the date you want to set in the drop-down box for the week, and then set the time period for that date. Up to four time periods can be set, which can be continuous, intermittent and overlapping. The box in front of the time period is "blue", indicating that the setting of the time period is valid, otherwise it is invalid. The following figure takes "channel 1" as an example to set up the time period of one-week Protection and removal.

Note: the time period set corresponds to the time interval displayed. Click "ok" after setting, save and return to the up window. Click [cancel] to cancel this setting and return to up window.

## 10.1.2 Interval time

During the set interval time (1 second by default), only one warning signal will be triggered if multiple movement detection occurs.

## 10.2 Linkage setting

Linkage setting is mainly the processing action setting after the alarm is generated

### 10.2.1 Alarm output

Motion detecting occurs, start the corresponding linkage alarm output port of the external devices (such as alarm), external alarm equipment will generate the corresponding response, after [alarm output] ports to choose, some equipment is an output port, some have a plenty of two, to note here which one is your choice. "Black" is checked, otherwise it is not checked. [Delay] after [alarm output] refers to the duration of alarm output after the alarm is generated, which is 10 seconds by default. Users can set the time according to their own needs.

### 10.2.2 Recording channel

The purpose of the recording channel is when the motion detection occurs in the channel, the selected video channel will carry out motion detection recording and package M type file. The selection of video channel can be one-to-one or one-to-many. When the corresponding box of channel is "blue", it is selected, otherwise it is not selected. The following two figures are the Settings of recording channel one (one-to-one) and channel two (one-to-many).

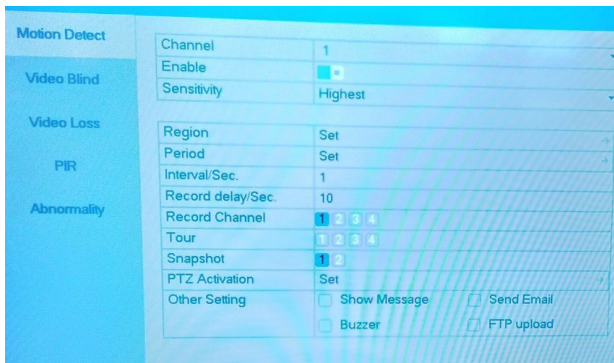
Generally, it is recommended that users choose one-to-one video recording.

One-to-one: when the channel generates an alarm, only the channel is linked for recording.

For example, in the figure below (1), when the channel one generates an alarm, the corresponding



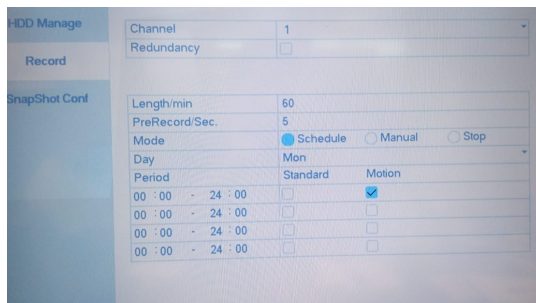
channel will produce a linkage video during this period, which is packaged as a recording file of type M.



One-to-many: refers to the video recording of the selected channel, when the channel generates an alarm, and it is packaged as a recording file of type M.

[recording delay]: recording delay refers to the length of the linkage video recorded when an alarm signal is generated, which is 10 seconds by default. The range of 10-300.

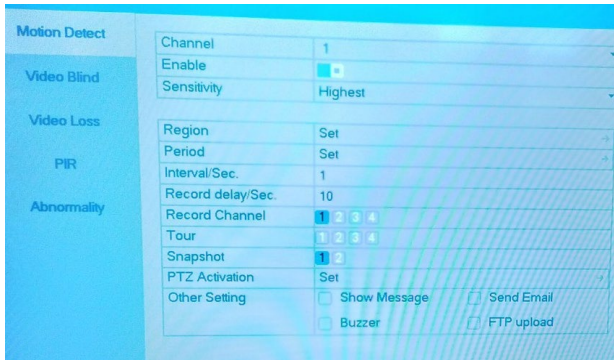
After the recording channel setting is completed, it is also attached to the setting in the "recording setting". There are two ways to find video Settings: the main menu → recording function → recording Settings.



If you want to record the image of the motion detection, you need to set the time period of the corresponding channel here, so that the "time period of the protection and removal" is within the "time period of the recording setting". Generally, you can select "00:00-24:00", and the "detection" below box here shall be selected and saved after setting. See the video setup section for more details.

## 10.2.3 Tour

Tour refers to the channel selected in the channel number. When there is an alarm signal, the selected channel will conduct single screen round tour preview. Here you can arbitrarily choose one or more of the channels for the round tour. For example, select channel 1234 for the following setting:



## 10.2.4 Send email

[Send email] the box after "Send email" is shown as black and selected, indicating that an email will be sent to notify the user when an alarm occurs.

Note: to send EMAIL, you need to set it in [network service].

## 10.2.5 Screen prompt

The function of the screen prompt is that when an alarm signal is generated, the screen of the local device terminal will have a "alarm status" prompt, and click "ok" to end the prompt. [screen prompt] the box after "black" is selected, otherwise it is not selected.

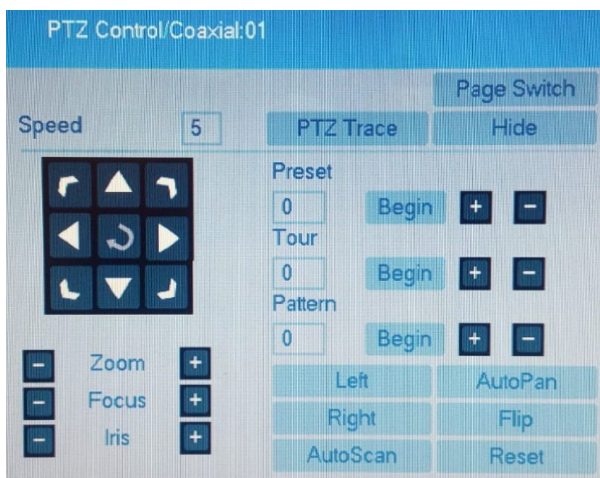
## 10.2.6 Buzzer

When the alarm signal is generated, the local device side will produce a period of chirping. When the box after [Buzzer] is displayed as "black", it is selected; otherwise, it is not selected

## 11. PTZ Control

The main functions of the setting of PTZ control include: controlling the PTZ head, step size, variation, focusing, aperture, operating the preset point, etc.

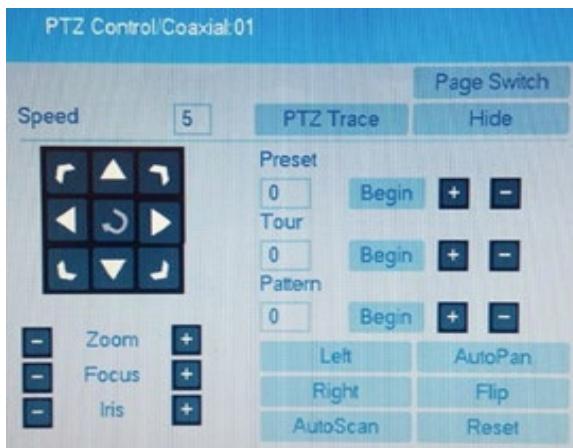
The interface for setting the function of this setting can be found through the following ways: directly click the right mouse button on the preview interface and find [PTZ control]. The interface is as follows:



### 11.1 Premise condition

The function items supported by PTZ are determined by the function items supported by PTZ agreement, that is, by the function of the ball machine purchased by the user.

## 11.2 Basic setting







PTZ control interface

### Control PTZ direction

Control PTZ rotation, support 8 direction control

[step size] is used to set the rotation range (rotation speed) of PTZ. The larger the number is, the larger the range will be. The setting range is 1 ~ 8

[zoom] adjust  /  the key to magnification of the camera;

[focus] focus  /  the key to adjustment the camera;

[aperture] adjust  /  the key to the camera aperture;

[high speed PTZ] after selection, the channel map will be displayed in full screen. Press and hold the left mouse button to control PTZ for rapid rotation and positioning. Press and hold the left mouse button and rotate the mouse pulley to adjust the magnification of the camera;

[page switch] enter the function control menu.

## 11.3 Function Setting



### 1 Preset

Set a certain direction as the preset point, call the preset point value, and PTZ will automatically rotate to the set direction.

#### 1) preset point setting

Set a certain direction as the preset point, and the steps are as follows:

Step 1: rotate PTZ to the preset point through the direction key;

Step2: Enter the preset point value such as 1 and 2, Click  to save after setting completed. Click  to delete the specified preset point.

#### 2) Call preset point

In figure 11.1, enter the "value" of the preset point in the input box of the preset point, and click the start button, PTZ runs to the corresponding preset point.



### 2 Cruise between points

Some preset points are set as a cruise line. call points, PTZ automatically rotates on the set cruise line.

#### 1) Cruise between points setting


To set some preset points as a cruise line, the steps are as follows:

Step 1: enter the cruise point number, click , and pop up the picture 11.2 as blow;

Step 2: set the specified preset point and interval time in PTZ, click  the button to add the preset point in the cruise line, and click  the button to clear the preset point.

Once set, right-click to return to the previous interface, as shown in figure 11.1


#### 2) Call Cruise between points

In figure 11.1, enter the number of the cruise point in the cruise between points, click the start button, and the screen will rotate according to the line set before. Click the icon  to delete the cruise line.

### 3 Cruise trace

Through the tracking function, PTZ rotates can be set as a track, and a number is set for the track. PTZ can be moved on the track by calling the number.

### 1) Trace setting

In picture, enter the number in the tracking click , and the display is as shown in picture. When the operation is completed, click the "end" button, and all steps of the operation will be saved.



Trace setting

### 2) Call trace

In figure 11.1, enter the tracking number, click the start button, and the screen will rotate according to the track set before.

### 4 Line scan

Left border: use the direction key to select the desired position of the screen, and then click the left border to complete the setting;

Right border: use the direction key to select the desired position of the screen, and then click the right border to complete the setting;

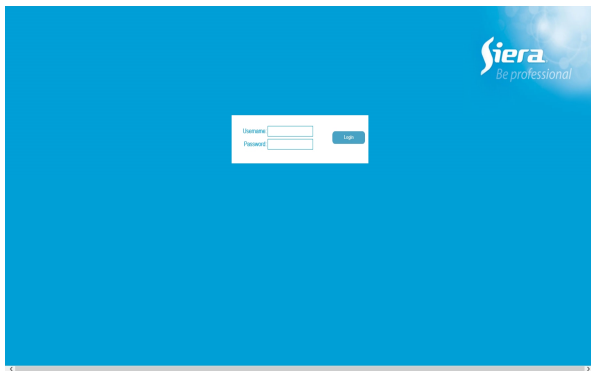
Line scan: click the line scan button, and the screen will rotate back and forth according to the left and right boundaries set before.

Horizontal rotation: click the horizontal rotation button, the screen will rotate back and forth in the horizontal plane.

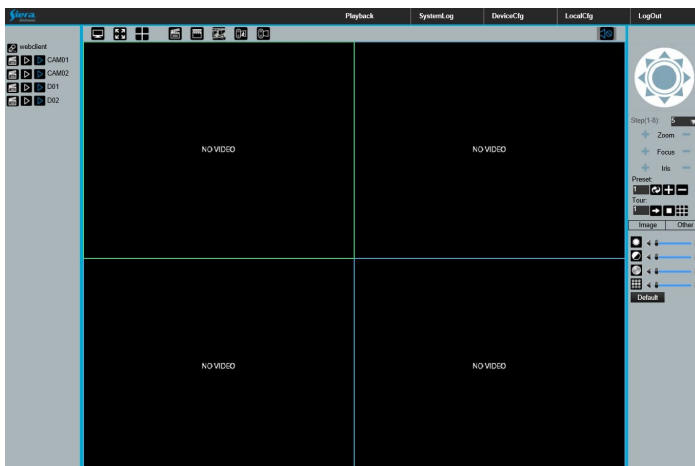
# Second Part Remote Visit

## 1. WEB Visit

After the network is connected, use the browser that comes with PC, input the IP address of the device, login the device for remote monitoring.

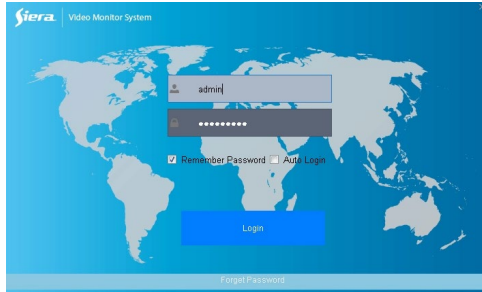


WEB login interface

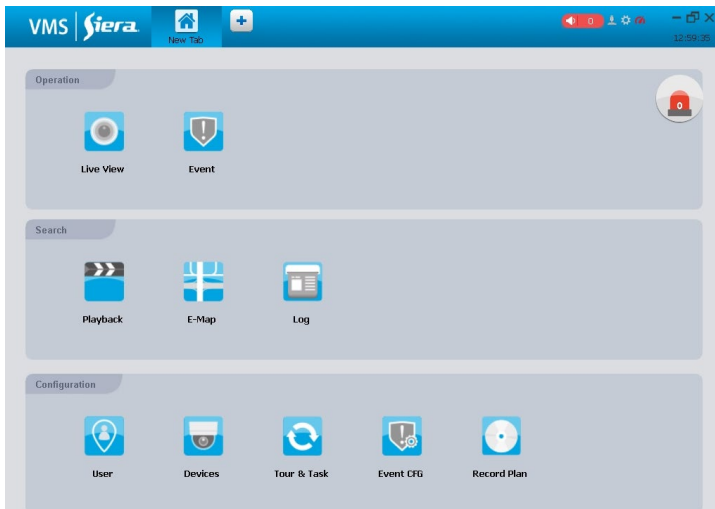


## 2. VMS Remote Visit

VMS for multi-device remote monitoring professional software, has the advantages of security, convenience, stability and multi-device unified management, and easy installation does not need to download plug-ins. Please refer to the user manual of VMS manual.



VMS login interface



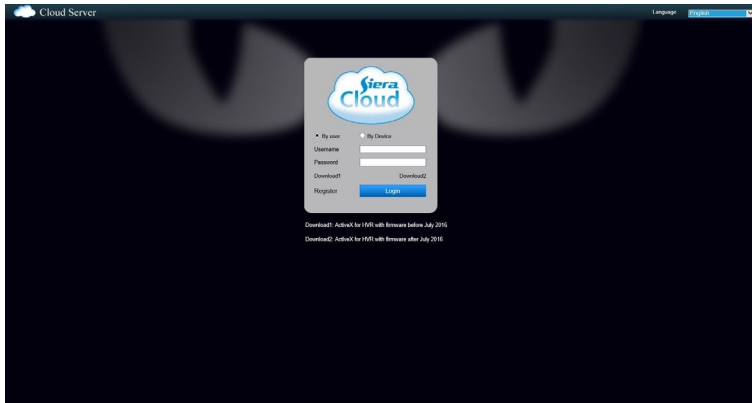
VMS Main Interface



### 3. Cloud

The cloud service implements remote access by entering device ID without port forward.

Open the IE browser, type <http://www.siera.co.uk:8080>, log in cloud services web client. You can register an account, log in as a user, or log in directly with the device ID.

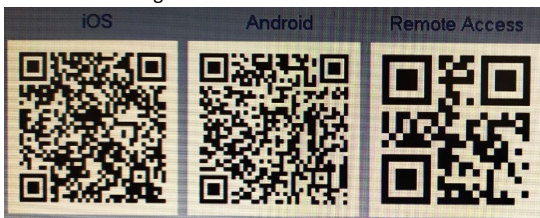


Cloud Login Interface

**Note:** Server address and device ID can be viewed under system Settings -> network service -> cloud service. Also, you can find it in guide interface. See the figure below:

### 4. APP

Mobile monitoring software: iSMS



# Auxiliary record 1 The mouse operation

This document takes the right-hand mouse habit as an example.

Operation	Function
Double left click	Double click one item in the file list to playback the video  Double click the playback video to zoom in or out the screen
	Double click the channel to make it full screen display in preview  double click again to resume the multi-channel display
Left click	Choose according option in the menu
Right click	Pop desktop shortcut menu in preview state
	Current shortcut menu in the menu
Wheel button	Add or subtract number value in the number setting

	Switch the items in the combo box
	Page up or down in the list
Move mouse	Choose the widget or move the item in the widget
Drag mouse	Set the motion detect area
	Set the cover area

Thank you for reading, if you have any questions please contact us.

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