User Guide

GD-CI-AC2615M

EN

grundig-security.com

GRUNDIG

Table of Contents

1 Introduction 3
1.1 Product Description 3
1.2 Product Features 3
1.3 System Requirement 3
2 Installation 5
2.1 Equipment Connection 5
2.2 Software Installation 5
3 Menu Settings 8
3.1 System 8
3.1.1 System Information 9
3.1.2 Time Settings 9
3.1.3 Advanced Settings 10
3.2 Network Settings 11
3.2.1 IP Settings 12
3.2.2 FTP Settings 12
3.2.3 SMTP Settings 13
3.2.4 RTSP Settings 13
3.2.5 QOS Settings 14
3.2.6 PORT Settings 14
3.3 Camera Settings 15
3.3.1 Basic Settings 15
3.3.2 Exposure Settings 15
3.3.3 Effect Settings 16
3.3.4 White Balance Settings 16
3.3.5 PTZ Functions 16
3.4 Audio & Video Settings 16
3.4.1 Video Settings 17
3.4.2 Character display 18
3.4.4 Privacy Mask 19
3.4.5 Audio Settings 20
3.5 Alarm Settings 20

3.6 Record Management 21
3.7 User Management 21
3.8 System Log 22

1 Introduction

1.1 Product Description

HD 2MP IP camera is designed for compressing, processing, and transmitting audio and video data. It can capture image and audio, process H.264/H.265 video data and G711 audio data which could be transmitted on internet, transmit real-time image and audio on network at the same time.

H.264 High profile/M-JPEG video compression format allows image output resolution up to 1920 × 1080 @30 fps or 1280 × 720 @30 fps. It supports three simultaneous video streams, and G.711 audio compression. Functioned with Motion detection, privacy mask, alarm input/output and local recording etc.

1.2 Product Features

- 1/2.8" progressive scan CMOS 2.0 megapixel HD sensor;
- High-resolution image signal output: up to 1920×1080@30fps
- Support 3D noise reduction;
- Audio, G.711;
- Supports Motion detection, privacy mask, and Local Recording;
- Supports multiple ways to handle alarms, such as email sending, FTP upload;
- Supports network monitoring: Web Viewer;
- Support ONVIF Profile S & T;
- Standard SDK is provided for easy integration with other video surveillance software;

1.3 System Requirement

Configuration of the computer to display image and control the camera:

CPU: Intel Pentium 4, 2.4 GHz or above

RAM: 512 MB or greater

Network Port: 100M Ethernet port

Operating System: Microsoft Windows 7, Microsoft Windows XP

IE browser version: Microsoft Internet Explorer 6.0 or above

When view the video, the user needs to adjust the IE browser of the monitor or other video devices, and set proper system function based on the following instructions:

Support IE browser version: Internet Explorer 6.0 or above;

Must install IpcOcxSetup control and equip with Directx 9.0c.

2 Installation

2.1 Equipment Connection

(1) IP camera can be directly connected to a computer, or connected to a network as the figure below, then connect the power adaptor and power-on.

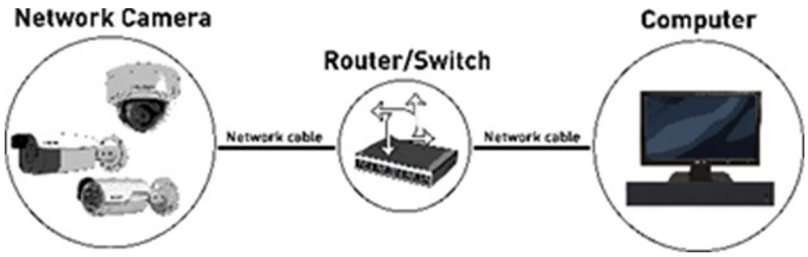

Figure 2-1 Network connection

(2) Please make sure that the PC or switch's network light is flashing(yellow).

2.2 Software Installation

The default IP address is http://192.168.1.18;

Default subnet mask is 255.255.255.0;

Default gateway IP address is 192.168.1.1.

(1) Login

Start IE browser and enter IP address. Enter user name and password in the pop-up login interface.

Do log in the system with the default super user for the first time to run the software. The default Super User is **admin** (password: **admin**).

(2) Install and run Control

The prompt message as below will come out in live view window after a successful login.

Click the link "download control" to run, or store the exe file, then run it.

Figure 2-2 Download IpcOcxSetup

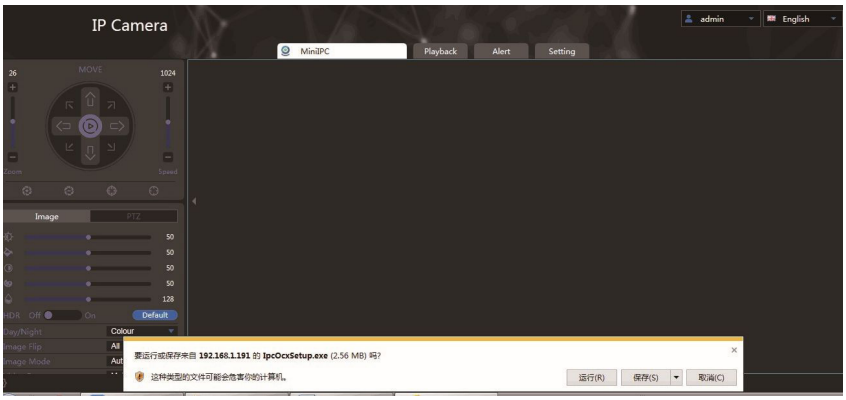

Figure 2-3 Run IpcOcxSetup

If the installation fails, check whether there is video viewed through another IE window or page. You should close the video or the IE window directly.

If it successes, click refresh, you can view the live video.

The live video will display as below:

Figure 2-4 Live video

NOTE

If IpcOcxSetup control installation fails, the live video won't display. Then, you should change the IE security level.

1. Select "Tool" in the menu bar, and then select "Internet Options" from the drop-down menu.
2. Select "Security" in the pop-up Internet options.
3. Click "Internet" icon and then click "Custom Level".
4. Select "Enable" or "Prompt" in the options of "Download unsigned ActiveX controls".
5. Click Privacy in the "Internet", clear "Block pop-ups", then redraw the screen and install control as per the prompt. The live video will display.

By now, the IE browser setting for image viewing comes to an end.

3 Menu Settings

IP camera supports H.265/H.264 and M-JPEG video compression formats. After successful login, it enters H.264 main stream live video interface. Users can also select H.265 main stream, H.265/H.264 sub stream or MJPEG from the dropdown list of stream type. In the H.264 main or sub stream type, users can do recording, snap-shooting, and audio settings.

Over browsing videos, users can also select a proper video scale.

Click the option tab “Setting” to enter the system setting interface.

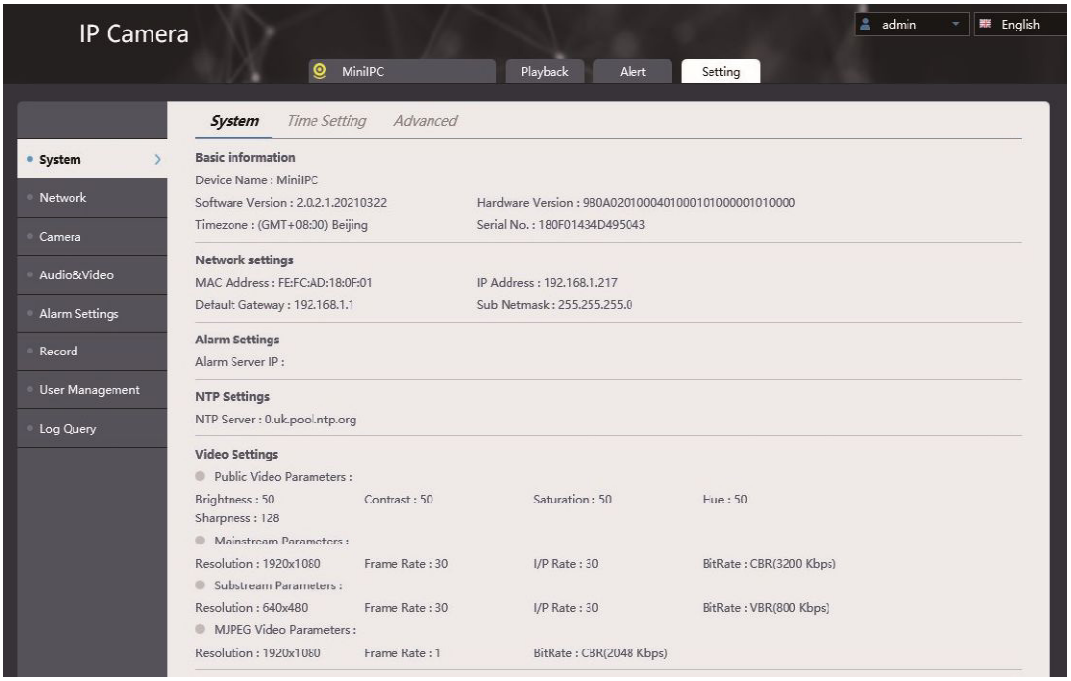

Figure 3-1 Settings Interface

With the help of navigation menu on the left, Superuser can perform the following operations: Basic Information, Network Settings, Alarms Settings, NTP Settings, Video Settings (including Basic Settings, Exposure settings, Effect Settings, White Balance), Video & Audio Settings, Alarm Settings, Record setting, User management (Add/Delete User, Change Password), Log, etc.

NOTE: The following instructions are used for the super user.

This chapter mainly introduces the settings and operation of IP camera.

3.1 System

Click the navigation bar [System] and it displays the following three option tabs: System, Time setting and Advanced, as shown in Figure 3-1.

3.1.1 System Information

The initial interface of System Settings displays related system information, such as basic system information, network settings, NTP settings, alarm settings, H.264/MJPEG video settings, etc.

3.1.2 Time Settings

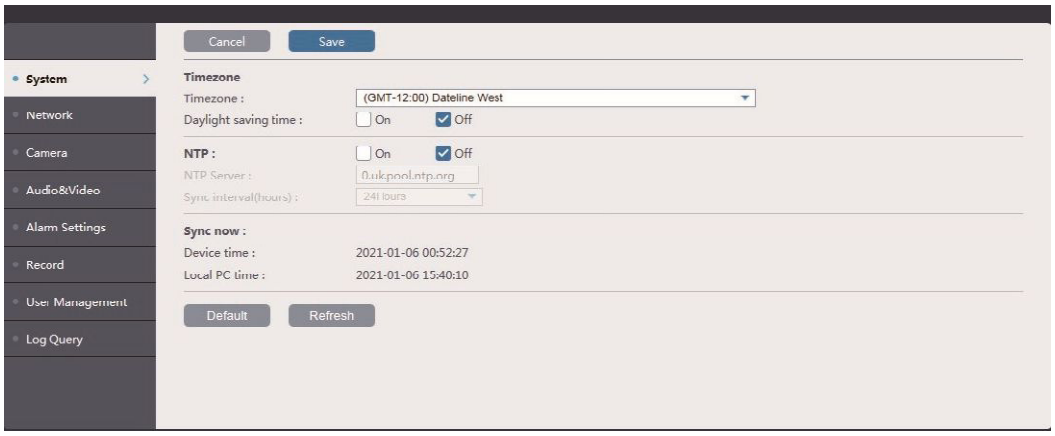

Figure 3-2 “Time” Settings

3.1.2.1 Time Zone Settings

Time Zone: Select the desired time zone in the scroll box, and then click “Save” to save it.

There are 25 time zones for your selection.

If Daylight Saving Time is applied in your region, please turn on Daylight saving time.

After settings completed, please click the button “Save”.

3.1.2.2 NTP Settings

Set the NTP server’s IP address, test NTP server’s status, and set parameters of Sync with NTP, including enable/disable Sync with NTP, Sync time and Sync interval.

After completed, please click the button “Save”.

3.1.2.3 Sync now

There are two sync modes: PC sync and NTP sync.

PC Sync means the system time is consistent with that of local PC. In the NTP Sync mode, the system will automatically adjust time to the same as that of NTP Server.

3.1.3 Advanced Settings

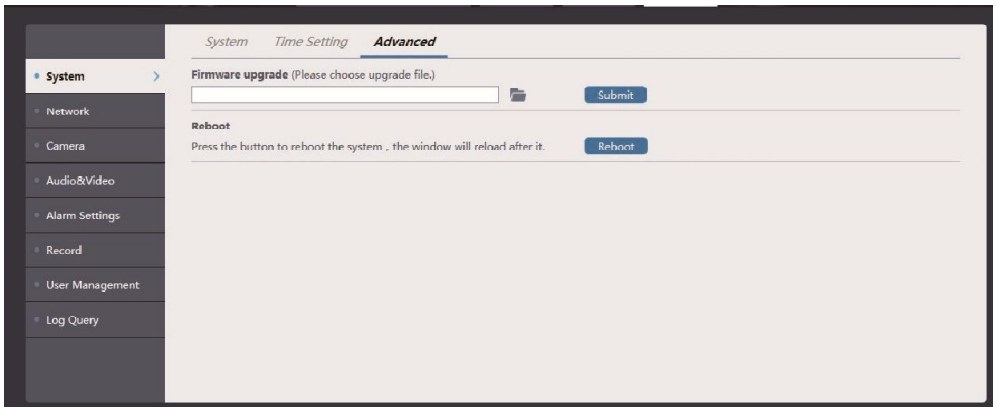

Figure 3-3 “Advanced” Settings

Follow the steps below to update software:

Step 1

(1) Make sure there is a TF card in device, check from menu “Record---Peripheral equipment management”, the SD card status: Exist as in below Figure 4-3

(2) Upload upgrade file from “Setting---System---Advanced” as 4-4

(3) Select the upgrade file

(4) Submit and wait the process bar done

Figure 3-4 SD Card Status

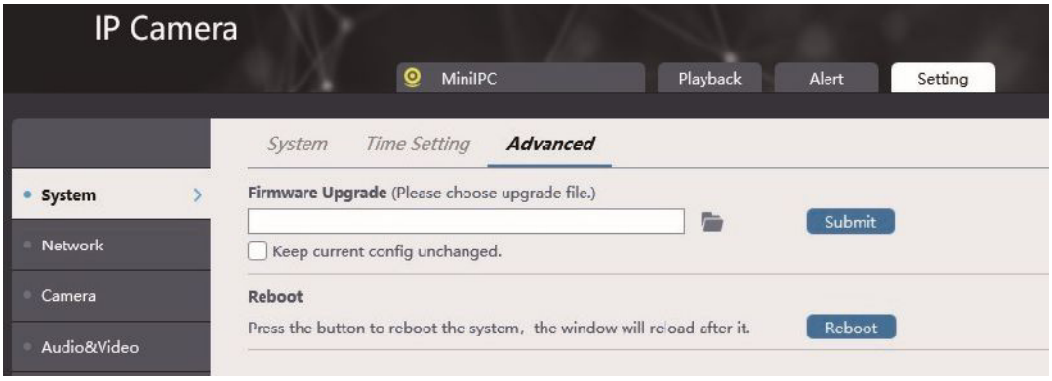

Figure 3-5 System-Advance

Step 2

(5) Reboot Device

(6) Done, check the software version from System.

(7) After upgraded, the IP address of camera will change back to default IP address http://192.168.1.18

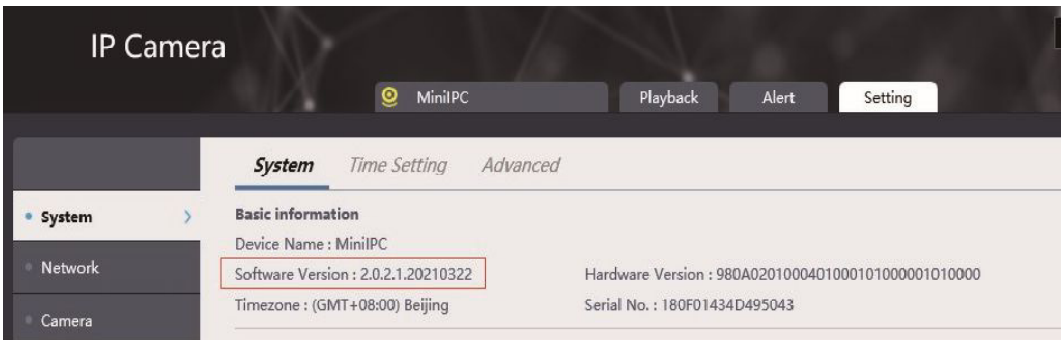

Figure 3-6 System---Software Version

The response time is due to the program type. You may wait a long time for some program. Do not power off during the update process. Power-off will make update fail, even damage the original program or unable to update again.

After update successfully, it needs to reboot the system. There is time prompt in the web page during reboot. After reboot, it will skip to new web page to run new program.

NOTE: Available only for the super user.

3.2 Network Settings

Click “Network” in the navigation bar, and the following interface will display:

Figure 3-7 Network Settings

There are 6 options tabs are available: Network, FTP, SMTP, RTSP, QoS and PORT

3.2.1 IP Settings

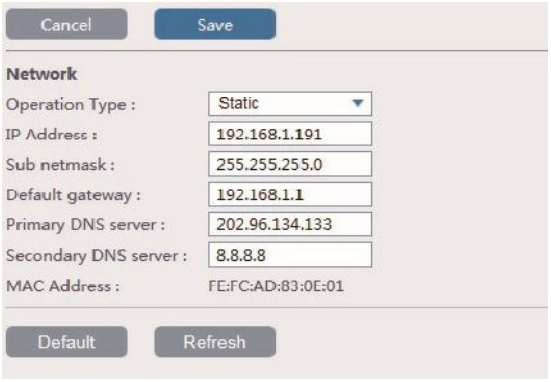

Figure 3-8 IP Settings

3.2.2 FTP Settings

Figure 3-9 FTP Settings

3.2.3 SMTP Settings

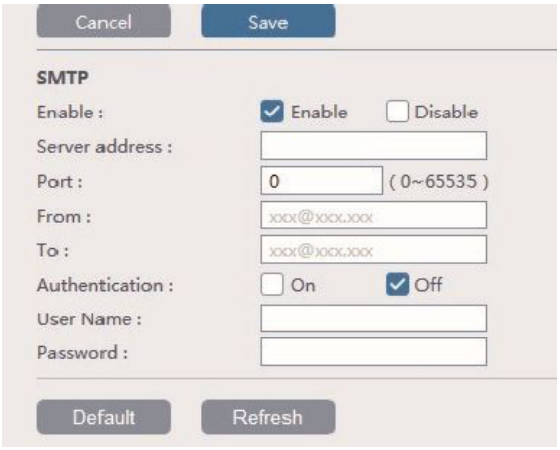

Figure 3-10 SMTP Settings

User needs to set mail server, recipient, etc. in SMTP settings interface.

- ***Server IP***: Set mail server address.
- ***From***: Set sender's mail address.
- ***To***: Mail address of recipient.
- ***Authentication***: Enable or disable authentication function. This function should be set according to authentication requirements of mail server.
- ***User name***: Sender's name, it can be set according user's needs.
- ***Password***: Set sender's password.

NOTE

there is no limit for Sender's name and password settings. After setting, click "Set" Save to take effect. If user selects "mail" in "Alarm Settings" interface, system will send mails according to SMTP settings.

3.2.4 RTSP Settings

IP camera supports multicast function. In the RTSP interface, users can select the stream type, set multicast IP address and port.

Figure 3-11 RTSP Settings

3.2.5 QOS Settings

Figure 3-12 QOS Settings

3.2.6 PORT Settings

The PORT interface displays the ports camera use. Users can modify RTSP, Onvif and Http port.

Figure 3-13 PORT Settings

The default Http (WEB) port is 80. You can change it at will. But if you change it as 8888, then you enter 192.168.1.18:8888 for accessing the device.

All the port in the interface can be changed but can’t be the same.

NOTE: The port modify will not take effect until device reboot.

3.3 Camera Settings

Click “Camera” in the navigation bar to enter the interface shown as below:

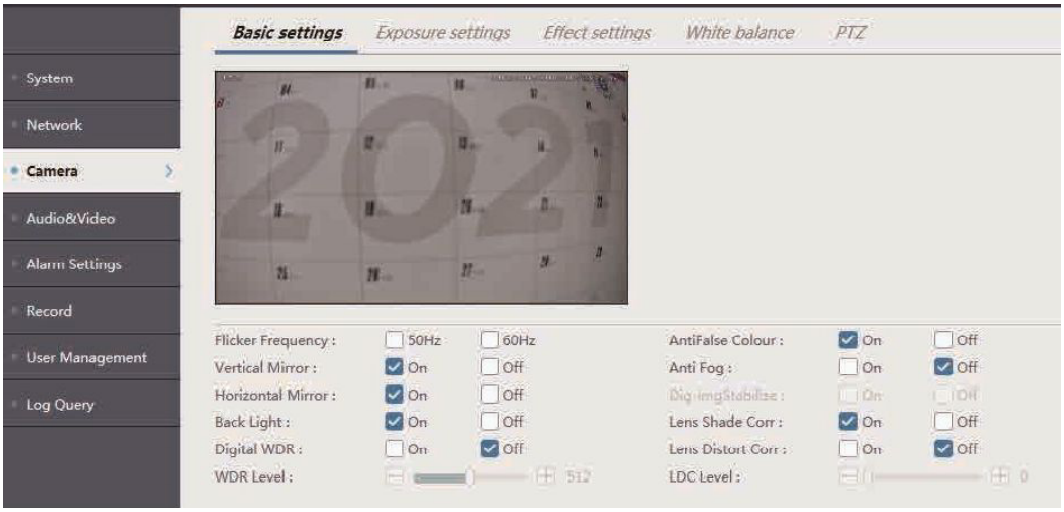

Figure 3-14 Basic Settings

3.3.1 Basic Settings

You can set the following parameters:

Flicker frequency: 50Hz or 60Hz.

Enable or disable vertical &horizontal mirror, backlight compensation, digital WDR, HDR, anti False color, anti-fog, Lens shade &Lens Distort correct.

3.3.2 Exposure Settings

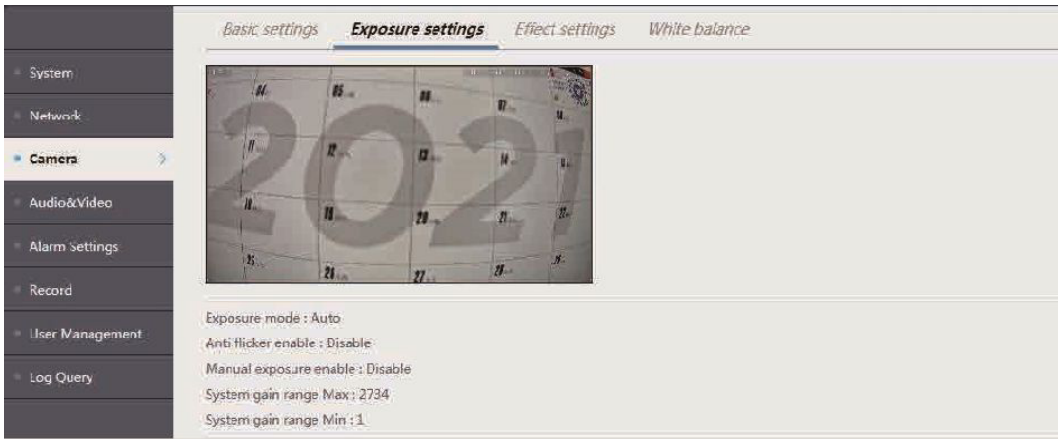

Figure 3-15 Exposure Settings

Exposure mode, Anti flicker freq, Manual exposure value, System gain range Max and System gain range Min can be set in this interface.

Exposure mode: Auto, Manual. In the Manual mode, Exposure time mode, Time of exposure, Analog gain mode, Analog gain size, Digital gain mode, Digital gain size, ISP gain mode can be set.

3.3.3 Effect Settings

In the Effect Settings interface, users can adjust the brightness, sharpness, hue, contrast, saturation, 3D Noise reduction and Gamma as shown in the figure below:

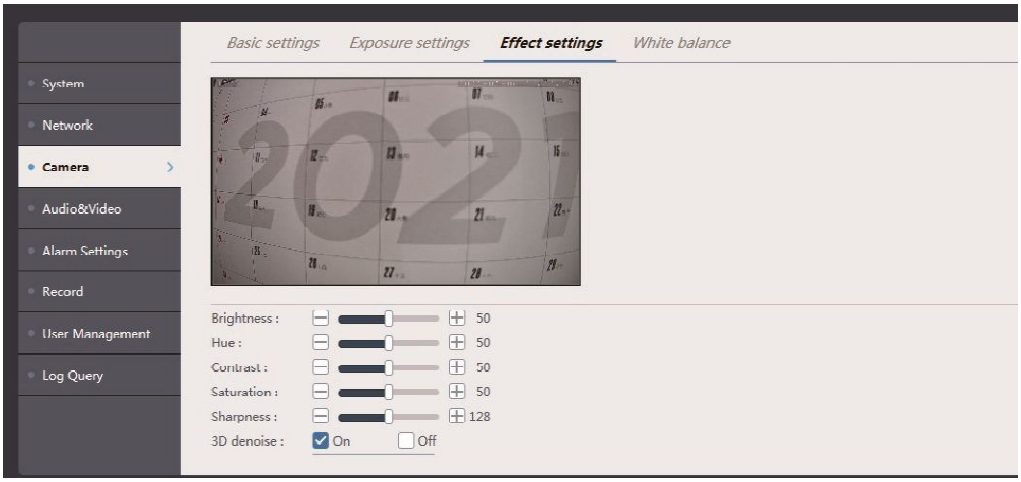

Figure 3-16 Effect Settings

3.3.4 White Balance Settings

Figure 3-17 White Balance Settings

The camera has rich white balance modes, including Auto, Manual, Incandescent lamp, fluorescent lamp, Cloudy day and Sunny day. If set to manual mode, you can set the red gain and blue gain.

3.3.5 PTZ Functions

When the camera is working with Pan/Tilt, you can set camera address, baud rate and protocol in the interface.

3.4 Audio & Video Settings

Click the button Audio & Video in the navigation bar to display the following interface.

Figure 3-18 Video Settings

Click the related option tab to enter the setting interface.

3.4.1 Video Settings

Users can set the video parameters in the format of H.265/H.264/MJPEG main or sub stream and MJPEG.

Enctype: H.264/H.265/MJPEG

Resolution: For main stream, the resolution of IP camera comes up to 1920X1080, with 1280X960, 1280X720, 720X576, 720X480 optional; For sub stream, the resolution comes up to 720X480, with 640X480,480X360,352X288, 320X240,176X144 optional. For MJPEG stream, the resolution comes to 1920X1080, 1280X720.

Video type: complex stream, video stream

Profile: Baseline, main, high

Frame Rate: the number of compressed frames produced by camera per second. The bigger the frame is, the better the image continuity will be, but the CPU performance is lowered; The smaller the frame is, the worse the image continuity will be, but the CPU could handle more events. The maximum frame rate is 30fps.

I/P Rate: I/P rate means the ratio of I frame to P frame in compressed video images. The bigger the value is, the less the data quantity is and the less network resource it occupies. Max. I/P rate can be set to 120.

Bitrate type: There are 2 modes of bit rate: variable rate (vbr) and constant rate (cbr). The variable rate can adjust the bandwidth that it occupies automatically according to the complexity of image, because the complexity of real video sequence keeps changing, details, speed, etc, and the variable rate setting mode can be used to choose how much bandwidth should be used. If the video gets more details and moving fast, then it takes up more bandwidth to transmit, and reversely it occupies less bandwidth. When the setting goes with constant bit rate, then the image is transmitted under a constant bandwidth.

Bit Rate: You have to set the upper limit of bit rate if “vbr” is selected; the stream size will be fixed if “cbr” is selected and the stream size is defined in the “Bit Rate”. For main stream and sub stream, the bit rate range is 2kbps~51200kbps.

3.4.2 Character display

Character display settings include: Text character and Date & Time character.

The camera supports four character text: Text 1, Text 2, Text 3 and Text 4. You can switch which text on if you need.

Only if Text 1,2,3,4 and Time character are set to “On”, you can set the text content and the display position of text and time.

Context: Enter the text content in the box of Context, which allows up to 36 characters (lower/upper case letters and 0~9).

X-axis &Y-axis: The title axis location. Both X-axis and Y-axis can be any of whole numbers from 0 to 99.

Font Size: Set the font size to be displayed. The bigger the value is, the larger the font size is. Default as: 16.

After all settings finished, click “Save” button to display character on the video. To cancel character display, set it to “Off” and then click the button “Save”.

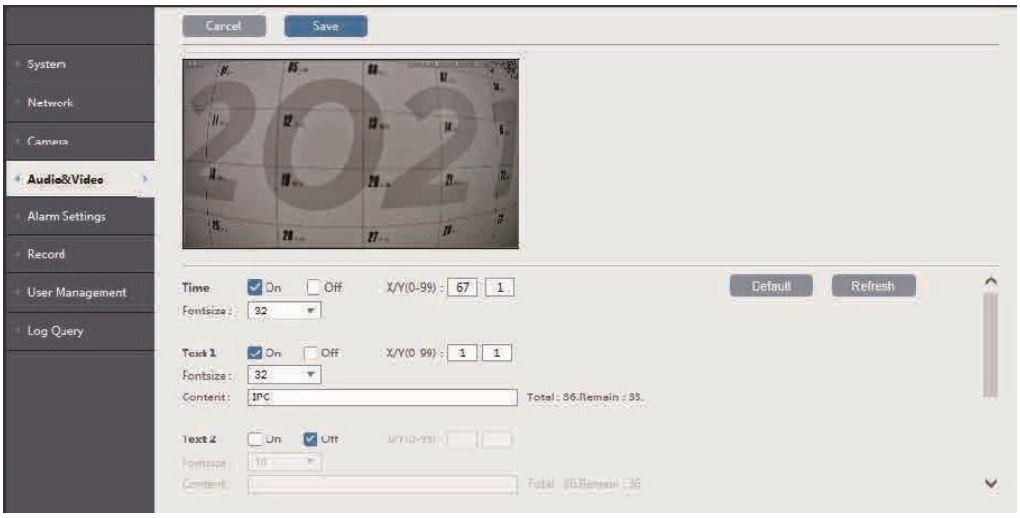

Figure 3-19 Character display

3.4.3 Motion Detection

The IP camera support motion detection.

Figure 3-20 Motion Detection Settings

3.4.4 Privacy Mask

IP camera supports 4 privacy masks. If there is certain location within the surveillance area where operators are not allowed to see, and thus, Privacy Mask can be applied. System covers and shields the sensitive area via Privacy Mask setting, to avoid operators observing certain sensitive locations on monitor.

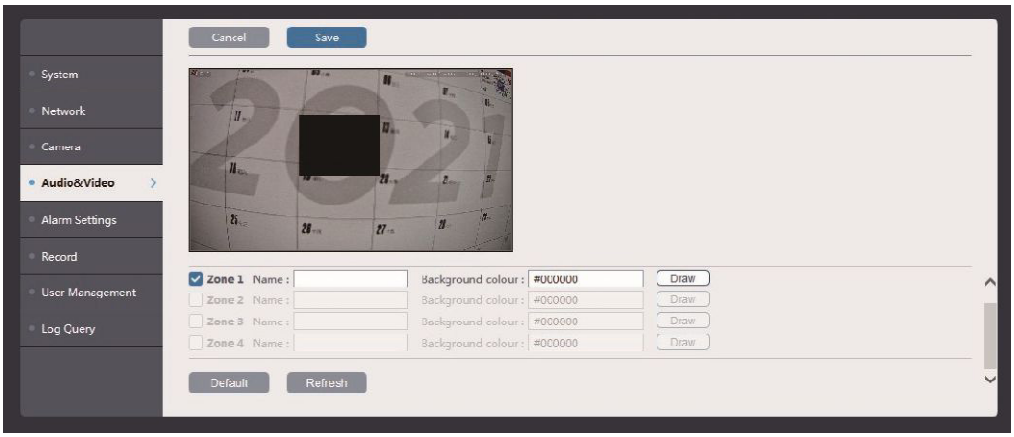

Figure 3-21 Privacy Mask Settings

How to set the privacy masks:

Tick the box of privacy mask area number. Click the button “Draw” with the mouse, press the left mouse button and drag on the black square displays on the screen. Then, click the button “Draw” again to finish drawing of privacy area, and click “save”. To cancel a privacy mask, just cancel the box ticking.

3.4.5 Audio Settings

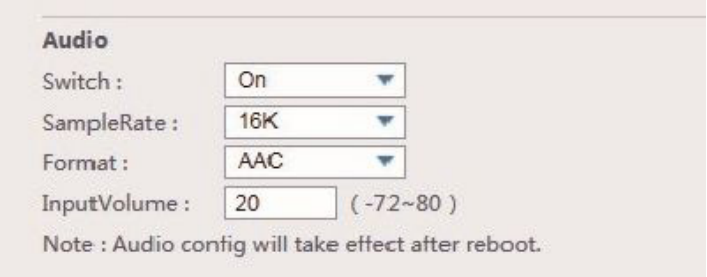

Figure 3-22 Audio Settings

Switch: Set to “On” to enable audio, set to “Off” to disable audio.

Sample Rate: 8K/16K

Format: AAC, G711A, G711U can be set according to the demand.

Input Volume: -72~80

3.5 Alarm Settings

Click “Alarm” in the navigation bar to display the following Alarm Settings interface:

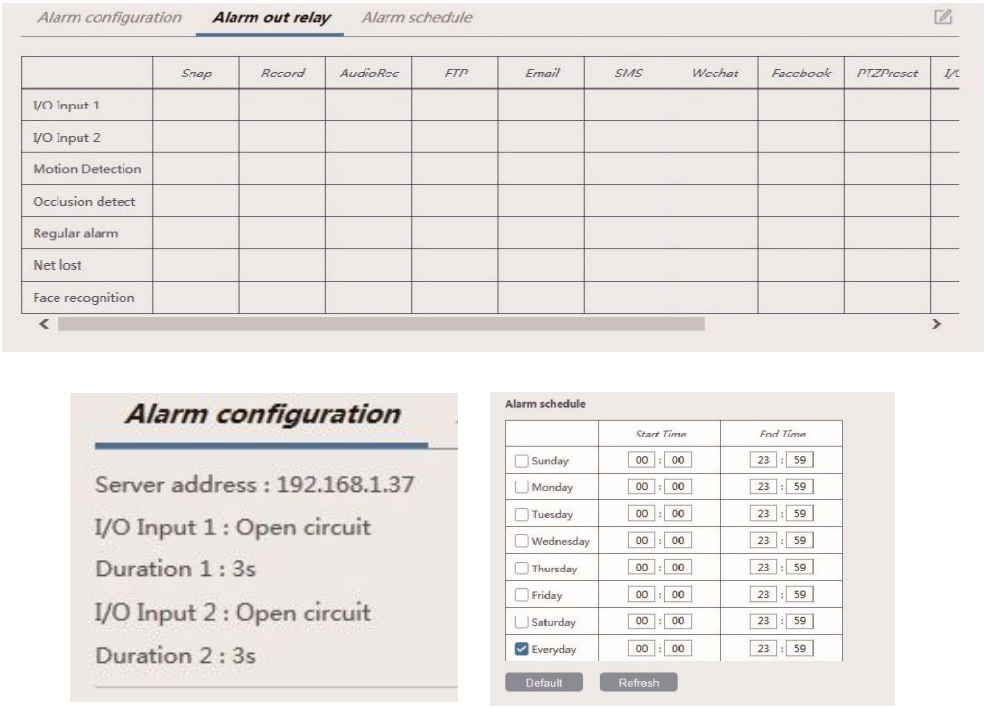

Figure 3-23 Alarm Settings

Alarm Configuration

I/O Input 1: Settable 1-channel alarm inputs.

Each alarm input has 2 modes: Grounded Circuit or Open Circuit.

Server address: used to set the IP address of alarm server. If alarm occurs, it will inform the alarm server.

Alarm out Relay

Users can set the relevant alarm response ways for I/O alarm in, motion detection, Occlusion detect, Regular alarm, Net lost etc., After setting completed, click “Save” button to take effect.

Note: when “FTP” or “Mail” is selected, you need to set FTP or SMTP parameters in Network Settings, refer to Section 4.3.2 or Section 4.3.3 for details.

Alarm Schedule

IP camera can set the effective alarm schedule. Select the alarm period (if Sunday is selected, alarm will be enabled during the set period of each Sunday; if every day is selected, alarm will be enabled during the set period of everyday), and then, set the time period. Enter the start time and end time in the 24-hour format. The end time must be larger than the start time.

3.6 Record Management

IP cameras support storage with SD card. In the Record Management interface, you can set the recording parameters.

3.7 User Management

The default super user is admin (password: admin). Super user can add, delete common user, and change the password of common users.

To change the password of administrator, we need your e-mail address for the purposes of sending a security code.

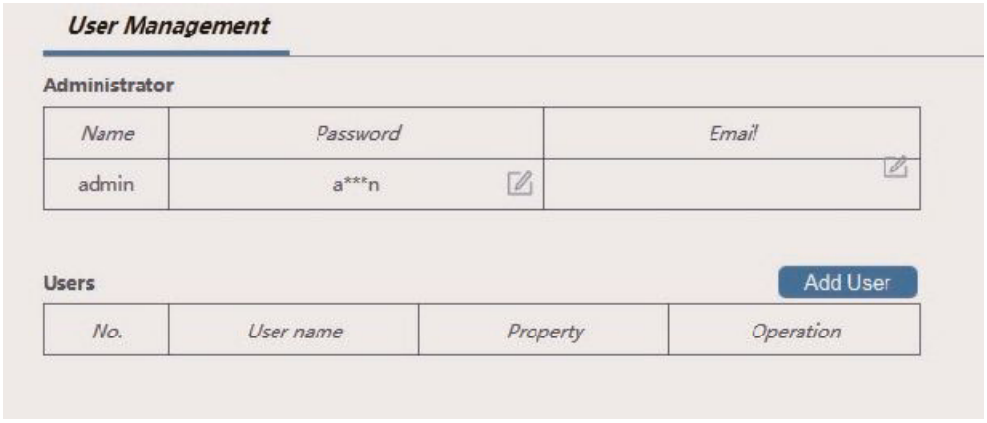

Figure 3-24 user management

Add Users

Click “Add a User”, enter the interface of “Add a User”.

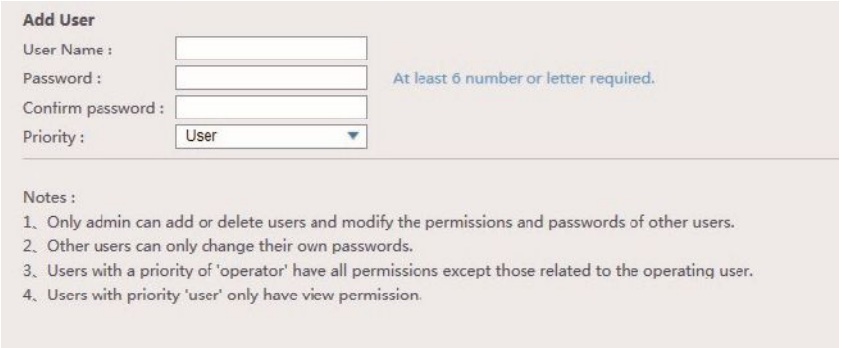

Figure 3-25 Add a User

NOTE

1、 Only admin can add or delete users and modify the permissions and passwords of other users.

2、 Other users can only change their own passwords.

3、 Users with a priority of 'operator' have all permissions except those related to the operating user.

4、 Users with priority 'user' only have view permission.

3.8 System Log

Click the “Log” option tab, the date, time and log information will appear on the right of the screen.

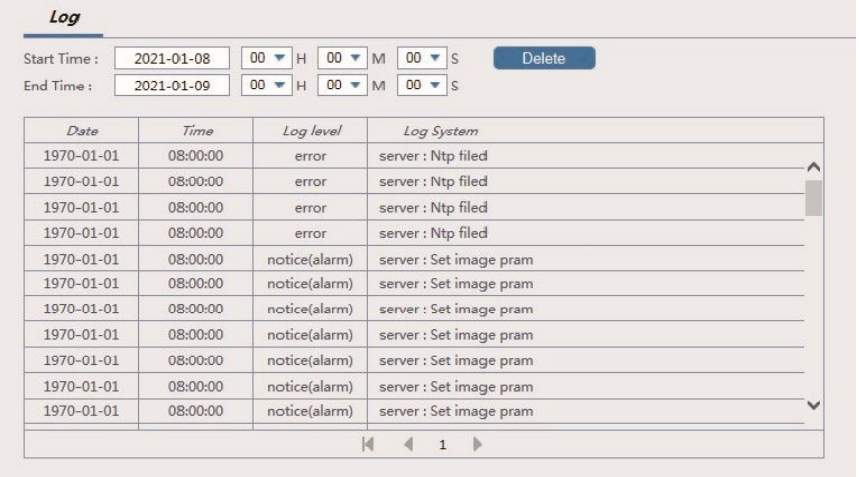

Figure 3-26 System Log

It can display 30 logs on a page. The user can turn over the pages or skip to the desired page by clicking the below arrows. Click “Delete logs”, a prompt will come out. Then, click “Yes” to clear logs.

grundig-security.com

GRUNDIG