Preface:

Dear customer, thank you for choosing to purchase and use our IP camera products. This series of IP monitoring product is the integrated IP network camera which is researched for network video surveillance monitoring. The series includes network bullet camera, network IR bullet camera, and network dome camera, etc. High performance, monolithic SOC chip is utilized as media processor which integrates video capture, compress and transmission. Standard H.264 main profile encoding algorithm ensures more clear and smooth video transmission. Embedded web server allows user to view real-time footage and remote control via IE browser. This series of IP camera is well suited for home and small business, as well as any situation which needs to apply remote network transmission and remote network control. It's easy to install and operate.

Statement:

The content in this manual may be different from the product version you are using. If you met any problem which can't be solved according to this manual, please contact our tech-support or product supplier.

The content will be updated time to time. Our company reserves the right to update without notice.

Intended Reader:

This manual is mainly suitable for below kinds of engineer: System planner Onsite tech-support and maintenance personnel Administrator for system installation, configuration and maintenance Users for business operation on product functions

Terms in this manual:

IP Camera or IPC in this manual means network camera including network bullet camera, network dome camera, network PT camera, and network IR camera, etc. Click: Click with left button of mouse.

Double Click: Double click with left button of mouse.

Right click: Right click with right button of mouse.

The[]symbol indicates the windows name, menu name, or data table; such as [Download Address].



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1 Product Introduction 1.1 Brief Introduction

This product is digitally monitored with a traditional analog camera and web video service. Efficient Linux system, code in flash and small size that's reliable and steady.

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Figure 1-1 Network IP Camera

Figure 1-2 Camera Cable Ports

1.2 Main Features

- * The highest pixels for 30 W, 2M frame rate, real-time image
- * Advanced video compression standard, high compression rate and flexible operation
- * 1/4"CMOS sensor, fluid motion pics
- * Automatic snapshot in all circumstance
- * One key rescue system, dual stream and mobile phone live monitor
- * Build-in WEB browser supports IE access

* Support multiple user simultaneously, multi-level management ensures high system security.

* Support motion detection alarm (area, sensitivity configurable) and e-mail alert function

* Support online system upgrade by remote control

 * Automatic recovery function when the system temporarily loses internet connection.

* Support PPPOE, DDNS, LAN, and Internet (ADSL, Cable Modem)

1.3 Installation Statement

During installation and operation, please pay attention to the following items: 1. When you received the package product, please check the equipment and accessories according to the packing list inside the packing case.



2.Before installation please carefully read this user manual.

3.When you install the IP camera, please close the power source of all the related devices.

4. Check the voltage of the power source, to prevent device damage by mismatching of voltage.

Installation environment: please do not use equipment under high humidity or temperature. Make sure there is good ventilation and no blocking of air-vent. Place it on a flat floor. Do not install it under violent vibration.

1.4 Network IP Camera Connection

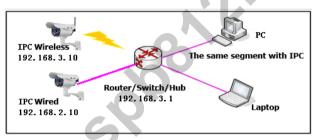


Figure 1-3 Device Connection of Network IP Camera

Step one: Connect the IP Camera to your router or NVR using a network LAN cable.

Step two: Connect the related power adapter to the IP Camera so that the camera powers on.

Step three: Insert the Software CD into the PC computer that is connected to the same local network as the IP Camera.

Note: It can also apply the way of IP Camera directly connecting with PC. Note: When using IE browser to visit IP Camera, the IP of local PC should be in the same segment with the IP of the IPC.

2 Log in

When using IE (Internet Explorer) to visit IP camera for the first time, you have to set the security level for ActiveX controls.

Set security level: Open Internet Explorer, enter the IE Tools menu [Tools/Internet Options/Security Settings/Custom Level...], Enable the "Active X Controls and Plugins" and set the IP address of the IP Camera as "Trusted sites".

| nternet Options | Security Settings - Internet Zone |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Central Security Privacy Content Connections Programs Advanced Home page To create home page table, type each address on its own ine. To create home page table, type each address on its own ine. To create home page table, type each address on its own ine. To create home page table, type each address on its own ine. To create home page table, type each address on its own ine. To create home page table, type each address on its own ine. Delete temporery files, history, cookes, saved passwords, Delete browsing history on exit Delete | Setting: |
| Change search defaults. Settings | C Enable |
| Change how webpages are displayed in Settings tabs. Appearance | *Takes effect after you restart Internet Explorer Resot custom settings Beset to: Medum-high (default) V Reset |
| Colors Languages Fonts Accessibility OK Cencel Accity | OK Cancel |

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Figure 2-1 Security Level Setting

Install ActiveX and plugins: Type the network camera IP address in the IE browser address bar, and press [Enter] to pop out dialog box of install ActiveX. Click [OK] to install.

Log in and Preview: In Login screen, type in network camera username,

password, choosing language and click [OK] to enter the video preview interface. Default:

IP Address: 192.168.0.100

UserName: admin Password: 111111

| C Net Viewer D6 Series Web-Program - Windows Internet Explorer | | - Z modo | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|--------------|
| 🕘 • 🔊 http://192168.100 💌 47 🗶 Uve Search | ۶. | Your Security - Our Priority | |
| 👷 🖗 🖟 Net Weiver D6 Series Web-Program 🛛 🔒 🔹 🖸 | 🖶 • 🔂 Page • 🌒 Tools • 🎽 | UserName: admin | _ |
| This webste wants to run the following add-on: 'REMOTE-1.00' from Uninown publisher'. If y add-on and want to allow it to run, click here | | | ОК |
| 2 | Run Activel's Control What's the Risk? | Password: | UK |
| | More information | VideoPort: <mark>8000</mark> | |
| | | ● 简体中文 ● English | Ocx DownToad |
| 🖲 Done 🧊 🙀 bitemet | 🔍 100% 🔹 🖉 | | |

Figure 2-2 Safety Dialog box

Figure 2-3 Login Interface

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3 Preview



Figure 3-1 Real-time Preview Interface

In the real-time preview interface, the user can control the video channel switch, record, snapshot, full screen preview, image process, image color, direction configuration, and PTZ control.

[Video Channel] Double Click the channel number to open the video channel to view image, right click and choose "Close" to close the video channel.

[Video Stream] Right Click the channel number to choose stream type(main stream or sub stream)

[Record] Right click the image, choose "record" check to start record, remove "record" check to stop record, the video is kept in file catalogue set by video capture.

[Capture] Right click the image, choose "capture" to capture photos, the capture photo is kept in catalog set by video capture.

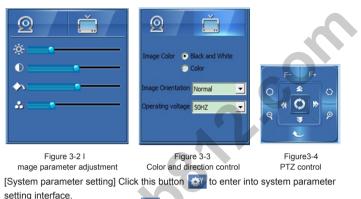
[Full screen preview] Double click the image to full screen preview, double click once again to go back to the original image size.

[Image process] The object of image processing includes brightness 🔅 , contrast 🕦 , saturation 💁 🛃 , use mouse to drag the slider to set these items, as figure 3-2. The "Reset" button to recover the default configuration.

[Color and Direction Configuration] Image color can be black and white or color, the image can be mirrored or reversed as figure 3-3, NSTC or PAL also can be set in this section.

[PTZ control] PTZ control to Upward, downward, left, right, the lens operation includes vary magnification, vary focus, vary iris, etc. as shown in figure 3-4.

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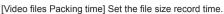


[Reboot device] Click this button () to reboot the device.

4 System Setting 4.1 Local Configuration

| C | Device Parameters | | × |
|---|----------------------|----------------------------------------------------------------------------------------------------------------------------------|---|
| | Local Configuration | Local Video Store Settings Video files padiaged time : 30 mins Video/Capture file storage directory : D:V/DNNS\ Submit | |
| [| Remote Configuration | | |

Figure 4-1 Local Configuration



[Video/Captured file Storage path] Set file path for local recording and capture. After configuration is finished, click [Submit] button, the configuration will take effect immediately.

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4.2 Remote configuration

4.2.1 Video Setting

·On Screen Display (OSD) control

| Device Parameters | | |
|----------------------|------------------------------------------|---|
| Local Configuration | Character Overlay Video Code Video Block | ٦ |
| Remote Configuration | | ļ |
| Video Settings | Total zmodo | |
| Network Param | Time Format | |
| Alarn Settings | | |
| System Info | Submit | |
| Advanced Settings | | |
| | | |
| Serial Port Settings | | |

Figure 4-2 OSD control setting

[Title] Name of video channel will be shown on the up left of the image, maximum 16 characters. Click the check box and it will display OSD. Un-check the check box, and it will not display the title.

[Time format] You can choose whether to display title , date and time, and also you can choose the time format.

After setting the date and time, click the [Submit] button, the setting will take effect immediately.

| | Zmodo® | |
|----------------------|------------------------------------------|------------|
| ·Video | | |
| Device Parameters | | |
| Local Configuration | Character Overlay Video Code Video Block | 1 |
| Remote Configuration | | |
| 嵌 | Main Stream | Sub Stream |
| Video Settings | Enable Switch | N |
| | Video Quality Very Good 💌 | Very Good |
| Network Param | The type of stream CBR | VBR |
| | Resolution VGA 💌 | QVGA |
| | | |
| Alarm Settings | Frame Rate 30 💌 | 20 |
| <u>.</u> | | |
| System Info | | |
| 0 | Subm | it |
| Advanced Settings | | |
| | | |
| Serial Port Settings | | |

Figure 4-3 Video coding setting

[Video Quality] The user can choose the appropriate desired image quality: Best, Very Good, Good, Common, Not Good.

[Stream Type] Two types: CBR(Constant bit rate)and VBR(Variable bit rate) to choose, CBR enables constant bit rate coding, VBR enables variable bit rate coding.

[Resolution] Sets the image resolution: main stream VGA(640×480=307200 pixel), sub stream QVGA(320×240=76800 pixels).

[Frame rate] set coding frame rate per second. Under not satisfying network situation, you can reduce the frame rate to control the coding bit rate, to ensure the smoothness and continuity of the moving footage.

After setting parameters, click the [Submit] button, the setting will take effect immediately.



·Video shield

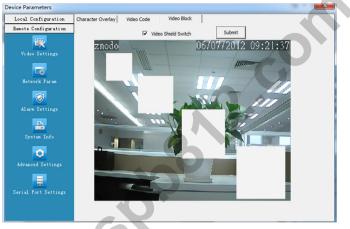


Figure 4-4 Video shield setting

[Video shield switch] Enable or disable the video shield functionality [Shield area setting] User can set shield area by dragging mouse with left key pressed, and cancel the shield box on the shield area by right clicking the mouse. You can choose to shield the whole image, or only shield the part of the image. It can mask up to four areas.

After setting parameters, click the [Submit] button, the setting will take effect immediately.



4.2.2 Network Parameter

·Wired Setting

| Device Parameters | | × |
|----------------------|---------------------------------------------------------------------------------------------------------------|-----|
| Local Configuration | Wired Settings Wireless Settings Listening Port PPPOE UPNP(Port automatically maps) Email FTP D | ONS |
| Remote Configuration | | |
| 戦 | DHCP | |
| Video Settings | IP Addr 192 . 168 . 2 . 10 | |
| | Subnet Mask 255 . 255 . 255 . 0 | |
| Network Param | Gateway 192 . 168 . 2 . 1 | |
| | MAC 00:02:04:06:08:22 | |
| Alarm Settings | Preferred DNS Addr 8 . 8 . 8 | |
| | Alternate DNS Addr 202 , 96 , 128 , 166 | |
| System Info | | |
| Advanced Settings | Submit | |
| Advanced Settings | | |
| | | |
| Serial Port Settings | | |
| | 9 | |
| | | |

Figure 4-5 wired network setting

[DHCP] If the router allows DHCP functionality, select DHCP. The IP Camera will obtain IP address automatically from the router. If the router does not allow for DHCP functionality, then the IP address must be obtained manually.

[IP Address] Set wired cable IP address of IP camera device.

[Subnet mask] Default: 255.255.255.0 (suggest user not to change this) [Gateway] Set gateway IP of IPC, for example if IPC access public network through router, the gateway IP need to be set as the router IP which has accessed the public network.

[Physical address] MAC address of IP camera (suggest user not to change this) [DNS address] If the user has a DDNS account, the DNS address needs to be set as DNS address of the place where the device is belonging to.

After setting parameters, click the [Submit] button, the setting will take effect immediately.

If it is applied in LAN, please make sure IP address does not conflict with the IP address of other devices or computer in the same LAN.

·WIFI setting

| Device Parameters | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local Configuration | Wired Settings Wireless Settings Listening Port PPPOE UPNP(Port automatically maps) Email FTP DDNS |
| Remote Configuration | Whether to use WIFI |
| Video Settings | Whether to use DHCP IP Addr 192 . 168 . 3 . 10 |
| 6 | Subnet Mask 255 . 255 . 255 . 0 |
| Network Param | Gateway 192 . 168 . 3 . 1 |
| | MAC 7C:DD:90:08:A0:A1 |
| Alarm Settings | Minor DNS Server 202 . 96 . 128 . 166 Submit |
| <u>.</u> | Minor Dids Server 202 , 90 , 222 , 100 |
| System Info | Hotspot name Connection status Hotspot signal Encrypt. Add Hotspot |
| 0 | IPLINK_44200C Connected 75% Encrypted ChinaNet-UPJE Disconnected 67% Encrypted ChinaNet-UM7 Disconnected 67% Encrypted |
| Advanced Settings | zmodocem Disconnected 66% Encrypted D-Link_DIR-600M Disconnected 78% Unencrypted |
| Serial Port Settings | |

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Figure 4-6 IPC WIFI network setting

[Whether to use WIFI] Select this check to open the wifi network function of IPC. [Whether to use DHCP] If the router allows DHCP function, select this type, IP camera will obtain IP address automatically from router.

[IP address] Set wireless IP address of IP camera.

[subnet mask] Set IP address of the current wireless gateway(router/AP), such as 192.168.0.1

[Hotspot adding] After switch to Wifi setting, it will automatically search the hotspot. When hotspot is searching; the name of the wireless router, signal intensity, and the encryption will be listed on the screen. Click on "add hotspot" or double click on an existing hotspot, open" wifi hotspot setting" dialog box as below figure shown:

| WIFI Hotspot Settin | gs 💽 |
|---------------------|-----------------------|
| Hotspot | TP-LINK_4A2DDC |
| Authentication Mode | WPA PSK Encrypted |
| WEP Index | WEP key 1 |
| Key Format | ASCII |
| Password | ******* |
| Esta | blish Connection Exit |

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If entered this screen by double clicking, hotspot will be assigned automatically; if entered this screen by clicking "Add hotspot", user has to type in hotspot, corresponding encryption mode and password. Click [Connect], close the dialog box, and connected or not will be list on the search results list.

If connected, "Connected" will appear after hotspot name; if not, please click "Refresh" to refresh connection status or click this button to search device again. After saving all parameters, click the [Exit] button, the setting will take effect immediately.

Now pull out network cable, you can access the IP network camera via Wifi. Note: WIFI setting only works to those types with WIFI function.

WIFI mode supported by IP Camera:

802.11b/g protocol (small power WiFi type)

802.11a/b/g/n protocol (large power WiFi type)

To use the wireless function of IP camera, a wireless router is needed such as D-link.

Figure 4-7 Wifi Hotspot setting

| ·Listener port (LP | RT) |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Device Parameters | |
| Local Configuration | Wired Settings Wireless Settings Listening Port PPPOE UPNP(Port automatically maps) Email FTP DDNS |
| Remote Configuration | |
| e | |
| Video Settings | web Listening Port 80 |
| 1 | Video Listening Port 8000 |
| Network Param | Mobile phone Listening Port 9000 |
| Alarn Settings | |
| System Info | Submit |
| . | 6 |
| Advanced Settings | |
| | |
| Serial Port Settings | 0 |
| | |

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Figure 4-8 LPRT setting

[Web LPRT] The default port 80(port 80 is recommended), port for download active X, if necessary to change, it should add port number behind IP address during web visit http://ip:port/, such as http://192.168.0.100:/81.

[Video LPRT] default 8000 (8000 is recommended).

[Mobile phone LPRT] default 9000 (9000 is recommended).

After setting all parameters, click the [submit] button, the setting will take effect immediately.

Note: LPRT can be selectable during range of 1024~65535, can't be repeated. Web LPRT can be 80.



·PPP0E

| Device Parameters | |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| Local Configuration | Wired Settings Wireless Settings Listening Port PPPOE UPNP(Port automatically maps) Email FTP DDNS |
| Remote Configuration | |
| Video Settings | Switch |
| 6 | User |
| | |
| 1 | Password |
| | |
| <u>.</u> | Submit |
| System Info | |
| - 1 | |
| | |
| | |
| | |
| | |
| | |

Figure 4-9 PPPOE parameters setting

[Switch] Set to open or close PPPOE dial-up function

[User name] The ADSL dial-up account, obtain from internet service provider [Password] Password of ADSL dial-up account, obtain from internet service provider

After setting all parameters, click the [submit] button, the setting will take effect immediately.

| ·UNPN (Auto por | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| Device Parameters | |
| Local Configuration | Wired Settings Wireless Settings Listening Port PPPOE UPNP(Port automatically maps) Email FTP DDNS |
| Remote Configuration | |
| Video Settings | Switch T web Mapping Port 3000 Video Mapping Port 3001 |
| Network Param | Mobile Phone Mapping Port 3003 |
| Alarn Settings System Info | Submit |
| Advanced Settings | |
| Serial Port Settings | |

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Figure 4-10 UNPN port mapping setting

[Switch] If in LAN it has server with UPNP functionality, enable this function, the server will automatically forward the set port to public network.

[web mapping port] Set the web port which will be mapping to the server.

[digital mapping port] Set the digital port which will be mapping to the server.

[Mobile phone mapping port] Set the mobile phone port which will be mapping to the server.

After setting all parameters, click the [submit] button, the setting will take effect immediately.

Note: port mapping can be selectable between 1024~65535. It can't be repeated.

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·Email

| Device Parameters | | |
|----------------------|----------------------------------------------------------------------------------------------------------------|---|
| Local Configuration | Wired Settings Wireless Settings Listening Port PPPOE UPNP(Port automatically maps) Email FTP DDNS | |
| Remote Configuration | | Y |
| | SMTP Server smtp.gmai.com | |
| Video Settings | Receive E-mail Address zmodouser@eptco.com | |
| | Send E-mail Address zmodouser@eptco.com | |
| Network Param | SMTP Password Submit | |
| | E-mail Title alarm message | |
| Alarm Settings | SMTP Port 0 | |
| <u>.</u> | SSL 🔽 | |
| System Info | 6 | |
| Advanced Settings | | |
| ₽ | N | |
| Serial Port Settings | .0 | |
| | | |

Figure 4-11 Email parameters setting

It is used to set Email address and related parameter of alarm email.

[SMTP Server] send email server address, different email service provider provides different email server address, such as SMTP server of Google email box: smtp.gmail.com

[Email receiving address] Email address to receive the email.

[Email sending address] Email address to send email.

[SMTP password] Log in password for the email box.

[Email title] The title of sending email.

[SMTP Port] Port of SMTP Server, different email server has different port, such as Gmail email server port as 465, enables SSL.

After setting all parameters, click the [submit] button, the setting will take effect immediately.

Common email server configurations:

Yahoo Email server:

SMTP Server: smtp.mail.yahoo.com

SMTP User name:username@yahoo.com

SMTP Port: 465

SSL: Enabled

·FTP

| Device Parameters | |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Local Configuration | Wired Settings Wireless Settings Listening Port PPPOE UPNP(Port automatically maps) Email FTP DDNS |
| Remote Configuration | |
| i i i i i i i i i i i i i i i i i i i | FTP Server 192.168.2.250 |
| | FTP Port 21 |
| C | User root |
| | Password |
| Alarn Settings | |
| System Info | Submit |
| <u>o</u> | ` |
| Advanced Settings | |
| | |

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Figure 4-12 FTP parameters setting

FTP services will send the alarm triggered recording file or captured photo via FTP to certain FTP server.

[FTP server] IP address or HTTP network address of FTP server.

[FTP port] Port of FTP server, default port is 21.

[User] User name of the FTP Server.

[Password] Password of the FTP Server.

After setting all parameters, click the [Submit] button, the setting will take effect immediately.

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DDNS

| Device Parameters | | |
|----------------------|-----------------------------------------------------------------------------------------------------------|------|
| Local Configuration | Wired Settings Wireless Settings Listening Port PPPOE UPNP(Port automatically maps) Email FTP | DDNS |
| Remote Configuration | | |
| 1 | Switch 🔽 | |
| Video Settings | Server 3322.org 👻 | |
| | DNS zmodo.3322.org | |
| Network Param | User zmodo | |
| | Password ***** | |
| Alarm Settings | | |
| System Info | Submit | |
| 0 | -0 | |
| Advanced Settings | | |
| | | |
| Serial Port Settings | 0 | |

Figure 4-13 DDNS parameter setting

Dynamic DNS setting, through this setting it can bond device with a fixed domain, no matter how public network IP varies, it can visit the device via this domain. User can register a DDNS account on website of 3322.org.

[Switch] Setting open or close DDNS function.

[Server] 3322.org or dynDDNS.org selectable.

[DNS] The device domain which is set by user, such as zmodo.3322.org.

[User] The user name which you registered on DDNS server.

[Password] The password which you registered on DDNS server.

After setting all parameters, click the [Submit] button, the setting will take effect immediately.



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Figure 4-14 Motion detection setting

[Protection time setting] Set the protection time of motion detection. It can set detail time period of everyday, up to four time periods. Select the time and click the [Save] button, then the time period selection will take into force.

[Motion detection switch] Set open or close of motion detection, enable this switch to edit the motion detection area.

[Motion detection setting] After enable motion detection switch, the setting interface will appear grid line. User only needs to click the little cube on the image to set the motion detection area. Right click the little cube to cancel related area detection.

[Alarm action mode] Set linkage output format after triggered alarm. Sending email is sending motion detection alarm information via email to user, the detailed Email parameter see chapter 4.2.2. There will be no Email alert if user didn't set email parameter previously.

[Sensitivity] The sensitivity of motion detection includes three levels: High, Little high, Mid, and Low.

[Output delay] Set delay time of alarm linkage, time range is limited between 0~30.

After setting all parameters, click the [submit] button, the setting will take effect immediately.



4.2.4 System Information

| Device Parameters | | |
|----------------------|---------------------------------|-------------------|
| Local Configuration | Version System Time | |
| Remote Configuration | | |
| * | Device Name | ZMD-ISV-BFM26NM |
| Video Settings | MAC | 00:02:04:06:08:22 |
| | Hardware Version | V.1.0.00-20120418 |
| Network Param | Software Version | V.1.0.00-20120418 |
| | Video Channel number | 1 |
| | Audio Channel number | 0 |
| Alarm Settings | Alarm Access number | 0 |
| | Alarm output | 0 |
| System Info | Wether to support the intercom | NO |
| 0 | Wether to support Local storage | NO |
| Advanced Settings | | |
| Serial Port Settings | | |

Figure 4-15 Version Information

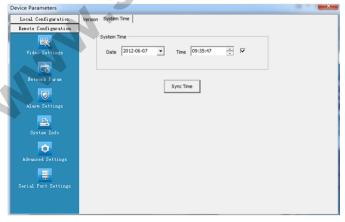


Figure 4-16 System time setting

[Version] Display device name, system version, video/audio channel number, sensor/alarm input/output, local storage.

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[Time Setting Switch] Enable this switch to manually set the system date and time; disable this switch then the system date and time will be synchronized with local PC only to check the status and can't be configured to disable this switch. After setting all parameters, click the [Sync time] button, the setting will take effect immediately.

4.2.5 Advanced setting

·User management

| | | | | | _ |
|----------------------|------------|-----------------------------|----------|---------|---|
| Local Configuration | | egular Maintenance Software | Update | | |
| Remote Configuration | User Info | | | | |
| 10486 | User | | | Add | |
| e 🗱 | Password | | - | Del | |
| Video Settings | Fassiona | | | | |
| | User types | Root privileges | Ŧ | Modify | |
| 177 | | | | | |
| Network Param | | | | | |
| ACCRONAL A GL GH | Users List | | | | |
| (7 ⁶ 3) | | | | | |
| | Number | User | User Pri | vileges | |
| Alarm Settings | 1 | admin | Root | | |
| | | user user1 | Ordinar | v Liser | |
| <u>e</u> | | | or arrow | , | |
| System Info | | | | | |
| | | | | | |
| - 1 0 | | | | | |
| | | | | | |
| Advanced Settings | | | | | |
| | | | | | |
| | | | | | |
| Serial Port Settings | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Figure 4-17 User management interface

Each IP camera can be set up to have up to 15 users. Admin is the system default super user and cannot be deleted, but the admin password can be changed. User's authority is as following:

Super-User authority: operate and set all the function and parameter of IP camera Common user authority: The common user is allowed to view video, adjust their password and delete their own account. Common users are not granted any additional authorities.

Note: the default user after leaving factory is admin, the password is 111111. Both user names and passwords are case sensitive.

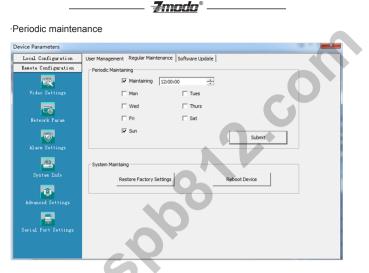


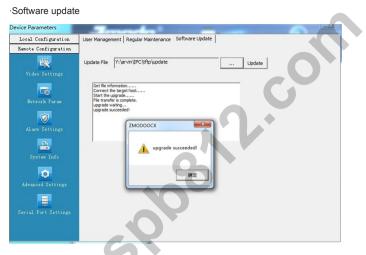
Figure 4-18 Periodic maintenance setting

[Periodic Maintaining] Choose to open periodic maintenance and set maintenance time, detailed maintenance time on everyday can be configured. After setting all parameters, click the [submit]

[Restore factory setting] Click this button to recover all the setting of the device back to factory setting.

[Reboot Device] Click this button to reboot the device.

Note: Periodic maintenance and reboot the device will need to wait for 30 seconds to restore video surveillance.



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Figure 4-19 Software Update

[Update File] Click "." to browse for the correct update file (application file: REL-APP, Please not change the file name), click "Update". During the update, it will display update information. After update finished, IP Camera will reboot automatically. Log into the device once again and enter the software update interface to check whether the system version has been updated.

Note: During updating, please do not disconnect the camera from its power source or from the internet connection.



4.2.6 Serial port set up

| Device Parameters | | 83 |
|----------------------|----------------------|----|
| Local Configuration | Serial port settings | |
| Remote Configuration | Channel 1 | |
| | PTZ Parameters | |
| Network Param | PTZ Protocol Pelco_D | |
| Alarn Settings | Parity Bit N/A 👻 | |
| System Info | Speed 31 | |
| Advanced Settings | | |
| Serial Port Settings | Subint | |
| | | |

Figure 4-20 Serial port setting

When IP camera has external RS485 communication or control device (such as a PTZ controller) the user needs to set the RS 485 parameter according to the setting of these external devices. The channel, address, speed, protocol, and bit rate need to be set accordingly. Only all these are set correctly, the external communication device can be used to control the camera.

[Channel] Select the channel of device.

[PTZ protocol] The communication protocol setting, the user can choose Pelco_D or Pelco_P. The protocol is the same as that of the PTZ device.

[PTZ speed] Ranging from 1~64

[PTZ address] Ranging from 1~255

[Data Format] The setting of RS485 communication data format includes bite rate, date position, check digit and stop bit.

After setting all parameters, click the [submit] button, the setting will take effect immediately.