

NEXCOM International Co., Ltd.

Intelligent Digital Security IP Camera NCi-301-V User Manual



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Preface

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Disclaimer

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Acknowledgements

NCi-301-V is a trademark of NEXCOM International Co., Ltd. All other product names mentioned herein are registered trademarks of their respective owners.

Regulatory Compliance Statements

This section provides the FCC compliance statement for Class B devices and describes how to keep the system CE compliant.

Declaration of Conformity

FCC

This equipment has been tested and verified to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area (domestic environment) is likely to cause harmful interference, in which case the user will be required to correct the interference (take adequate measures) at their own expense.

CE

The product(s) described in this manual complies with all applicable European Union (CE) directives if it has a CE marking. For computer systems to remain CE compliant, only CE-compliant parts may be used. Maintaining CE compliance also requires proper cable and cabling techniques.



RoHS Compliance



NEXCOM RoHS Environmental Policy and Status Update

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RoHS restricts the use of Lead (Pb) < 0.1% or 1,000ppm, Mercury (Hg) < 0.1% or 1,000ppm, Cadmium (Cd) < 0.01% or 100ppm, Hexavalent Chromium (Cr6+) < 0.1% or 1,000ppm, Polybrominated biphenyls (PBB) < 0.1% or 1,000ppm, and Polybrominated diphenyl Ethers (PBDE) < 0.1% or 1,000ppm.

In order to meet the RoHS compliant directives, NEXCOM has established an engineering and manufacturing task force to implement the introduction of green products. The task force will ensure that we follow the standard NEXCOM development procedure and that all the new RoHS components and new manufacturing processes maintain the highest industry quality levels for which NEXCOM are renowned.

The model selection criteria will be based on market demand. Vendors and suppliers will ensure that all designed components will be RoHS compliant.

How to recognize NEXCOM RoHS Products?

For existing products where there are non-RoHS and RoHS versions, the suffix "(LF)" will be added to the compliant product name.

All new product models launched after January 2006 will be RoHS compliant. They will use the usual NEXCOM naming convention.





Warnings

Read and adhere to all warnings, cautions, and notices in this guide and the documentation supplied with the chassis, power supply, and accessory modules. If the instructions for the chassis and power supply are inconsistent with these instructions or the instructions for accessory modules, contact the supplier to find out how you can ensure that your computer meets safety and regulatory requirements.

Cautions

Electrostatic discharge (ESD) can damage system components. Do the described procedures only at an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an antistatic wrist strap and attaching it to a metal part of the computer chassis.

Safety Information

Before installing and using the device, note the following precautions:

- Read all instructions carefully.
- Do not place the unit on an unstable surface, cart, or stand.
- Follow all warnings and cautions in this manual.
- When replacing parts, ensure that your service technician uses parts specified by the manufacturer.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- The load of the system unit does not solely rely for support from the rackmounts located on the sides. Firm support from the bottom is highly necessary in order to provide balance stability.
- The network camera is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced.
 Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Installation Recommendations

Ensure you have a stable, clean working environment. Dust and dirt can get into components and cause a malfunction. Use containers to keep small components separated.

Adequate lighting and proper tools can prevent you from accidentally damaging the internal components. Most of the procedures that follow require only a few simple tools, including the following:

- A Philips screwdriver
- A flat-tipped screwdriver
- A grounding strap
- An anti-static pad

Using your fingers can disconnect most of the connections. It is recommended that you do not use needle-nose pliers to disconnect connections as these can damage the soft metal or plastic parts of the connectors.



Safety Precautions

- 1. Read these safety instructions carefully.
- 2. Keep this User Manual for later reference.
- 3. Disconnect this equipment from any power sources before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- 4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
- 5. Keep this equipment away from humidity.
- 6. Put this equipment on a stable surface during installation. Dropping it or letting it fall may cause damage.
- 8. Make sure the voltage of the power source is correct before connecting the equipment to the power source.
- 10. All cautions and warnings on the equipment should be noted.
- 11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
- 12. Never pour any liquid into an opening. This may cause fire or electrical shock.
- 13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.

- 14. If one of the following situations arises, get the equipment checked by service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the equipment.
 - c. The equipment has been exposed to moisture.
 - d. The equipment does not work well, or you cannot get it to work according to the user's manual.
 - e. The equipment has been dropped and damaged.
 - f. The equipment has obvious signs of breakage.
- 15. Do not place heavy objects on the equipment.
- 17. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.



Technical Support and Assistance

- For the most updated information of NEXCOM products, visit NEXCOM's website at www.nexcom.com.
- 2. For technical issues that require contacting our technical support team or sales representative, please have the following information ready before calling:
 - Product name and serial number
 - Detailed information of the peripheral devices
 - Detailed information of the installed software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wordings of the error messages

Warning!

NE(COM

- 1. Handling the unit: carry the unit with both hands and handle it with care.
- 2. Maintenance: to keep the unit clean, use only approved cleaning products or clean with a dry cloth.

Conventions Used in this Manual



Warning:

Information about certain situations, which if not observed, can cause personal injury. This will prevent injury to yourself when performing a task.



Caution:

Information to avoid damaging components or losing data.



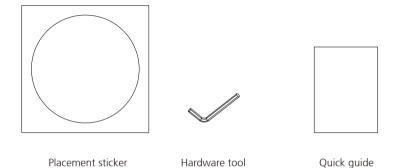
Note:

Provides additional information to complete a task easily.



Package Contents

The NCi-301-V package contains the following accessories:





Chapter 1: Product Introduction

Overview





Key Features

- Progressive scan CMOS sensor at 3megapixel/1080p full HD resolution
- Multiple H.264 and MJPEG streams
- Easy installation with remote focus and zoom control
- Support Auto-Focus to avoid focus error through human eyes
- Adjustable P-iris to achieve best image quality
- WDR [Wide Dynamic Range] to overcome high contrast lighting environment
- Active tampering alarm
- Face detection with extended applications
- Audio and human voice detection
- Camera health monitoring
- ONVIF support
- Excellent low light noise reduction



Hardware Specifications

Camera

- Image sensor: 1/3" 3megapixel true WDR progressive scan CMOS sensor
- Lens: Motorized (3-10mm, F1.4) board type
- Iris type: p-irisDay and night: Yes
- IR distance: N/A
- IR wavelength: N/A
- IR control: N/A
- ICR: Yes
- WDR: Yes
- Image Enhancement
 - Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/Night, Anti-flicker

Video

- Video compression: H.264/MJPEG
- Video streaming: triple streaming
 - H 264 Stream 1/ H 264 Stream 2/ MIPEG Stream 3
- Video resolution: 2048 x 1536 to 320 x 240
- Video quality
 - VBR: 5 level adjustable
 - CBR: 30Kbps~10Mbps
- Frame rate
 - 2048 x 1536 @ 30 fps
 - 1920 x 1080 @ 60 fps
 - 1280 x 720 @ 60 fps
 - 720 x 576 @ 60 fps
 - 720 x 480 @ 60 fps
 - 640 x 480 @ 60 fps
 - 320 x 240 @ 60 fps

Audio

- Audio streaming: Two-way
- Audio compression: G.711 8KHz/ 16bit
- Audio input: Line-in
- Audio output: Line-out

Network

- Interface: 10/100/1000 Mbps Ethernet, RJ-45
- Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS. NTP. uPnP. ONVIE. IPv4/ v6
- Security: Multi-level passwords/ HTTP encryption

I/O Connector

- Audio in/ out port: Terminal block 1 in/ 1out
- Video output: Phone jack X1,composite 1.0 Vp-p,75Ω
- D I/O: DIX1,DOX1
- RS485: N/A
- Micro SD slot: Yes, up to 32GB
- RJ45: Yes

Event Management

- Event trigger: Motion detection, DI
- Notifications: Trigger alarm output, email/ FTP and record video to PC or SD card
- Post-recording: Yes
- Pre-recording: Yes

Power Input

2

PoE: IEEE 802.3af





Power

- DC: DC 12V/ AC 24V terminal block
- POE: Yes/ IEEE 802.3af

General

- Power consumption: 10W max.
- Weight: 744g
- Dimension: 119.5 mm (H), φ134.9mm
- Operating Temp.: 0°C~ 55°C
- Humidity: 90% RH (no condensation)
- Certification: CE/ FCCVandal resistant: 1K10Outdoor capable: N/A
- Application: SDK available for application development



Physical Descriptions



Figure 1

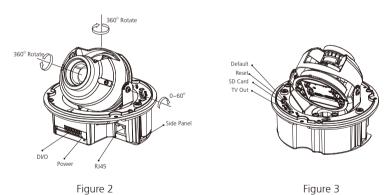
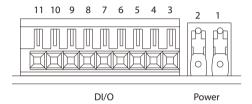


Figure 3

DI/O Pinout Assignment

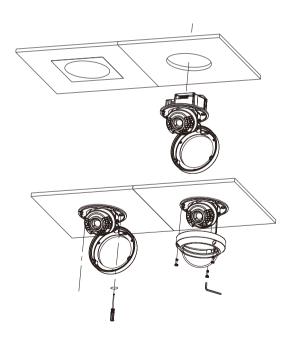


Pin	Description
1	DC12/AC24V (-)
2	DC12/AC24V (+)
3	LINE_in
4	GND
5	LINE_out_R
6	LINE_out_L
7	ALM_out_NO
8	ALM_out_COM
9	LM_out_NC
10	ALM_IN (-)
11	ALM_IN (+)



Hardware Installation (Wall Mount)

- 1. Position the placement sticker at the desired installation location.
- 2. Drill a 120mm diameter hole.
- 3. Separate the top cover. Place the camera inside the hole then use a screw driver to rotate the side panel and adjust the height of the side panel till it fits on the mounting surface firmly.
- 4. Replace the top cover and secure it tightly using the supplied tool.





Chapter 2: Camera Configuration

Accessing the Camera's Configuration Menu (Graphical User Interface)

The camera's default IP address is 192.168.1.168, make sure the IP address of the computer accessing the camera is on the same network subnet before proceeding.

You can access the camera via a web browser or NexCam Assistant software included with the camera. The following information outlines the instructions for each method.

Installing NexCam Assistant



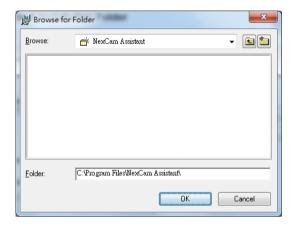
Note: If NexCam Assistant is already installed, you can skip this section and continue to the next section **NexCAM Assistant** on page 9.

- 1. Locate the installation file **NexCamAssistant-Setup.msi** on the CD.
- 2. Once located, double click on the file to start the installation program.
- 3. Click the **Next** button on the welcome screen to continue.

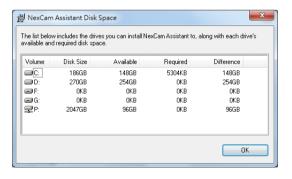




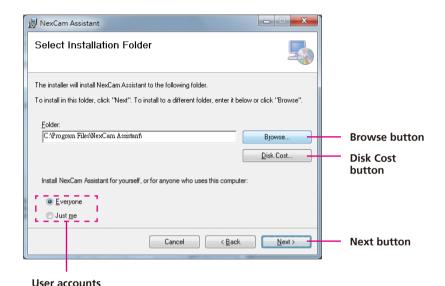
4. Confirm the directory that the program will be installed on. To specify a different folder, please click on the **Browse** button and locate the desired installation folder.



5. To check the available drives you can install the software to and their available and required disk space, please click on the **Disk Cost** button.



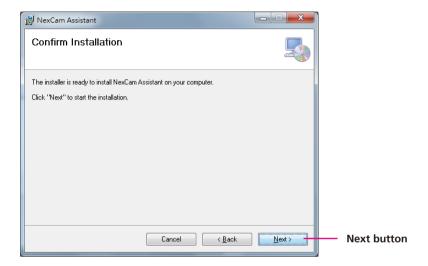
6. Specify which user accounts on the computer can access the program, the options are **Everyone** and **Just me**.



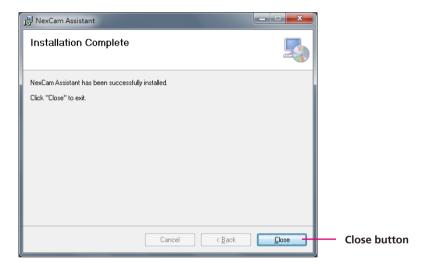
7. Click on the **Next** button to continue.



8. Click on the **Next** button to begin installation.



9. Once the installation process is complete, click on the **Close** button to finish. A shortcut will be created on the desktop.



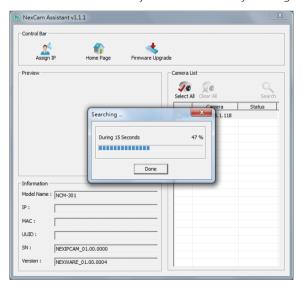


NexCam Assistant

 Locate and open the NexCam Assistant software shortcut on the desktop.

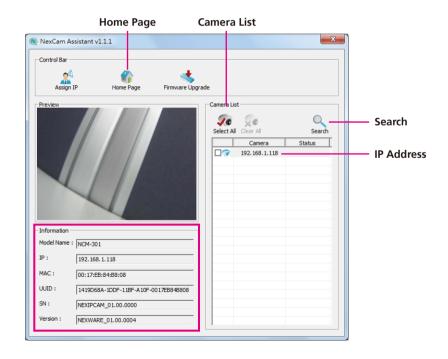


2. When the program is launched, it will begin searching the network for the IP camera automatically (the search will last for up to 90 seconds). You can also manually search cameras by clicking on the **Search** button.



Note: Manual search will last for up to 90 seconds.

- 3. Once the camera is discovered, it will show the following information:
 - Model name
 - IP address
 - MAC address
 - UUID
 - Serial number
 - Version
- 4. Click on the **Home Page** button and it will launch the camera's configuration menu via Internet Explorer. You can also access the menu by double clicking the camera's **IP address** under **Camera List**.

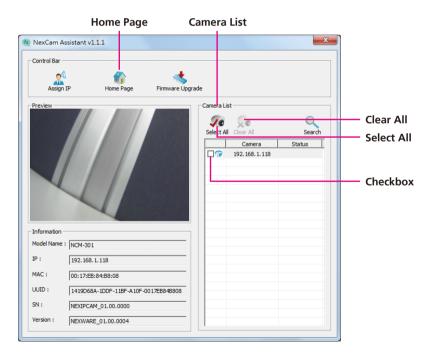




Multiple Cameras

If more than one IP camera are detected, the **Camera List** will show all the available cameras on the network. To access all the cameras' configuration menu simultaneously, click on the **Select All** button to select all the cameras in the list, then click the **Home Page** button. Similarly, you can access specific ones by ticking the camera's checkbox.

To deselect, press the **Clear All** button to remove all the selection, or specific ones by unchecking the checkbox.

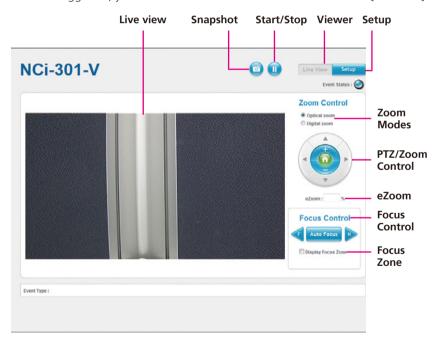


10



Web Browser (Internet Explorer)

- 1. Locate and open the Internet Explorer (IE) shortcut on the desktop.
- 2. In the address bar, type 192.168.1.168 (default IP address of the camera) and then press the **Enter** button.
- 3. You will be prompted with a pop-up window asking for login information, type in "admin" (default login name) and "9999" (default password)
- 4. Once logged in, you will see the main screen with video stream [stream 3]



Snapshot

Takes a image snapshot from the camera, you will be prompted to store the image file onto the computer's hard drive.

Start/Stop

Press to stop the live video, press again to restart.

Viewer

Views the live video of the camera

Setup

Options for configuring the IP camera.

Zoom Modes

Selects the zoom mode to use, the options are **Optical Zoom** and **Digital Zoom**.

PTZ/Zoom Control

Buttons used to control zooming and PTZ function.

Button	Description
Moves the camera up, down, left and right.	
6	Returns the camera back to default position.
AV	Adjusts the camera to zoom in or out.



eZoom

Used to zoom in the live view video, the options are 100%, 200% and 300%. Setting 300% will zoom in at maximum level.

Focus Control

Adjusts the camera's focus. To adjust the focus automatically, press the **Auto Focus** button. To set the focus manually, press the to focus far objects, and to focus near objects.

Focus Zone

Enables or disables display of focus zone in the center of the live view (cross-hair).

Configuring the Camera's Setting

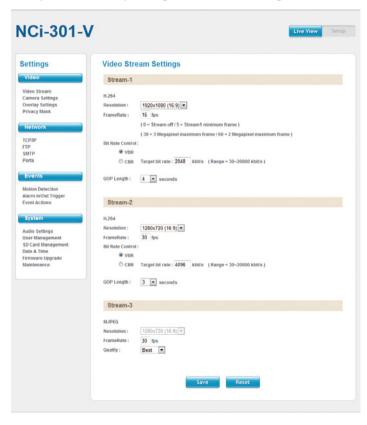
1. To configure the camera's setting, click on the **Setup** button on the main screen to enter the configuration menu.





Browsing Through the Configuration Menu

The layout of the configuration menu is split into two sections. All the camera settings are located on the left hand side of the interface, clicking it will open their corresponding sub-menu on the right.



The following are the camera settings available on the left hand side:

- Video
 - Video Stream
 - Camera Settings
 - Overlay Settings
 - Privacy Mask
- Network
 - TCP/IP
 - FTP
 - SMTP
 - Ports
- Events
 - Motion Detection
 - Alarm In/Out Trigger
 - Event Actions
- System
 - Audio Settings
 - User Management
 - SD Card Management
 - Date & Time
 - Firmware Upgrade
 - Maintenance



Video

Video Stream

This section configures the settings of the video stream. There are 3 video streams available, the live video from the main screen **Viewer** is stream 1.



Stream 1 (H.264)

Resolution

Configures the resolution of the video stream. The options are **2048x1536 (4:3)** and **1920x1080 (16:9)**.

FrameRate

Adjusts the frame rate of the video stream. Setting **0** will disable the stream.

Bit Rate Control

Configures the Bit Rate Control mode as **VBR** (variable bit rate), or **CBR** (constant bit rate) for the stream.

Target Bit Rate

If the Bit Rate Control is set to **CBR**, you can manually set the bit rate in this field, the range is 30~20000kbit/s.

GOP Length

Configures the GOP length of the stream. The options are **0.5**, **1**, **2**, **3** and **4**, setting "**0.5 seconds**" will yield the best video quality.



Stream 2 (H.264)

Resolution

Configures the resolution of the video stream. The available options are 1280x720(16:9), 720x480(3:2), 720x576(5:4), 640x480(4:3) and 320x240(4:3).

FrameRate

Adjusts the frame rate of the video stream. Setting **0** will disable the stream.

Bit Rate Control

Configures the Bit Rate Control mode as **VBR** (variable bit rate), or **CBR** (constant bit rate) for the stream.

Target Bit Rate

If the Bit Rate Control is set to **CBR**, you can manually set the bit rate in this field, the range is 30~20000kbit/s.

GOP Length

Configures the GOP length of the stream. The options are **0.5**, **1**, **2**, **3** and **4**, setting "**0.5 seconds**" will yield the best video quality.

Stream 3 (MJPEG)

Resolution

Displays the resolution of the video stream.

FrameRate

Adjusts the frame rate of the video stream. Setting **0** will disable the stream.

Quality

Configures the video quality of the stream. The options are **Best**, **Good** and **Normal**.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset





Camera Settings

This section adjusts the camera's image settings.

Camera Settings Image Adjustment > (Range: 0~255) Brightness: > (Range: 0~255) Contrast > (Range: 0~255) Color Saturation : < 128 > (Range: 0~255) Sharnnose Default Quick viewer Mirror & Flip Enable mirror Enable flip Wide Dynamic Range (WDR) off 🔻 WDR mode: White Balance • White balance mode: Exposure Exposure mode: < 128 > (Range: 0~255) Exposure value adjust: ▼ Fnable slow shutter Max.exposure time: 1/7 Enble sens up Max.sens up gain: 32x ▼ Enable backlight compensation Day & Night Auto Forced color Forced black & white

Image Adjustments

Brightness

Configures the brightness of the image, the range is $0 \sim 255$, with 0 being the lowest brightness. Press the < button to decrease the value, or > button to increase the value. The default value is 128

Contrast

Configures the contrast of the image, the range is $0 \sim 255$, with 0 being the lowest contrast. Press the < button to decrease the value, or > button to increase the value. The default value is 128

Color Saturation

Configures the color saturation of the image, the range is $0 \sim 255$, with 0 being the lowest saturation. Press the < button to decrease the value, or > button to increase the value. The default value is 128

Sharpness

Configures the sharpness of the image, the range is $0 \sim 255$, with 0 being the lowest sharpness. Press the < button to decrease the value, or > button to increase the value. The default value is 128.

Default

Default button to discard all the settings applied to Image Adjustments.



QuickViewer

Click this button to open up a small preview window of the live video, you can view the image as you make image adjustments. Click the **Save** button for the changes to take effect.



Mirror & Flip Enable Mirror

Flip the camera image horizontally.

Enable Flip

Flip the camera image vertically.

Wide Dynamic Range (WDR)

WDR Mode

Enables or disables WDR function, enable this option if the camera is exposed to bright backlight, glare or high contrast lighting. You can specify the WDR constrast level as **low**, **middle** or **high**. Selecting **high** will produce the best image quality.

White Balance

White Balance Mode

Enables or disables the white balance function on the camera. White balance allows the camera to produce more accurate colors under different lighting conditions. The following modes can be selected:

Off: Disables white balance function.

Auto: Automatically adjusts the white balance to suit the

current lighting condition.

Fixed Outdoor: Adjusts the white balance for outdoor daylight.
Incandescent: Adjusts the white balance for indoor light.
Fluorescent: Adjusts the white balance for fluorescent light.

Exposure

Exposure Mode

This option configures the anti-flickering function of the camera. If the image is suffering from flickering under fluorescent light, selecting **Auto** will allow the camera to automatically adjust the light frequency to match the current fluorescent lighting condition and prevent flickering. You can also manually set it to **Anti-Flicker 50Hz**, **Anti-Flicker 60Hz** or **Locked**.





Exposure Value Adjust

Adjusts the exposure value on the camera, the range is $0 \sim 255$. Press the
button to decrease the value, or > button to increase the value. The default value is 128.

Enable Slow Shutter

Enables or disables slow shutter on the camera, you can select the shutter speed in drop the list. The options are **1/7**, **1/15**, **1/30**. Selecting a slower shutter speed will improve image quality in low light conditions, but will increase motion blur.

Enable Sens Up

Enables or disables gain setting on the camera, you can select the maximum level of amplification in the drop down list. The options are **4x**, **8x**, **16x** and **32x**. A higher value will produce brighter images, but may also increase image noise.

Enable Backlight Compensation

Enables or disables backlight compensation function, enable this option if an image in the camera is too dark.

Day & Night

Configures the day and night mode of the camera.

Auto: Allows the camera to automatically sense the current

lighting level and determine what type of color range it

should display.

Forced Color: Forces the camera to display color regardless of the

current lighting level.

Forced

Black & White: Forces the camera to display black & white images

regardless of the current lighting level.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset







Overlay Settings

This section configures the text displayed on the live video in **Viewer**.

Overlay Settings



Contents

Enable Date

Enables or disables the **Viewer** to display the current date on the bottom right corner.

Fnable Time

Enables or disables the **Viewer** to display the current time on the bottom right corner.

Enable Text

Enables or disables the **Viewer** to display text on the upper right corner. The text displayed can be configured in the field box.

Display Camera Name

Enables or disables the **Viewer** to display the camera's name on the upper left corner. The name displayed can be configured in the **Maintenance** menu. For information on **Maintenance** menu, please refer to page 37.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

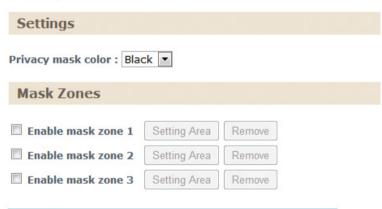
Reset



Privacy Mask

This section configures which area of the live video in **Viewer** will be masked for privacy. A total of 3 privacy masks can be configured.

Privacy Mask





Settings

Privacy Mask Color

Selects the color of the privacy mask. The available colors are **Black** and **White**.



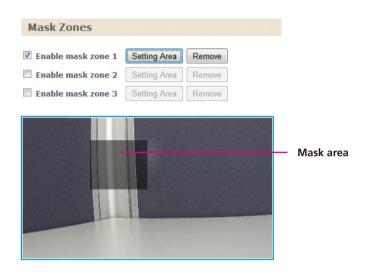
Mask Zones

Privacy Mask

You can configure up to 3 privacy masks, the instructions below illustrate how to setup 3 privacy masks.

- 1. Select the color of the mask in the drop down list.
- 2. To create the first mask, check the **Enable mask zone 1**, and on the live video screen below, select the area to mask by holding down the mouse button and drag to make a rectangular square, release the button once the desired area is covered.
- Press the Setting Area button in Enable mask zone 1 to set this area as mask.
- 4. You will see the selected area turn black or white, depending on which color was chosen (This example uses black as the mask color).

Settings Privacy mask color: Black Mask Zones Enable mask zone 1 Setting Area Remove Enable mask zone 2 Setting Area Remove Enable mask zone 3 Setting Area Remove Remove Rectangular square



5. To create the second and third mask, check the **Enable mask zone 2** and **Enable mask zone 3** options, then repeat steps 2 to 3 outlined earlier.

To delete a mask, check the zone number you like to remove, and press the **Remove** button.



Network

TCP/IP

This section configures the network settings of the camera.

TCP/IP

IP Address Configuration

O Enable DHCP

Static IP address:

IP address:

192.168.1.168

Subnet Mask:

255.255.255.0

Defuault gateway: Primary DNS server: 192.168.1.254 192.168.1.1

Secondary DNS server:

192.168.1.2

Current Network Settings

 IP address:
 192.168.1.168

 Subnet Mask:
 255.255.255.0

 Defuault gateway:
 192.168.1.254

 Primary DNS server:
 192.168.1.1

 Secondary DNS server:
 192.168.1.2

Save

Reset

IP Address Configuration

Enable DHCP

Enables DHCP, use this feature if the camera is connected to a network with DHCP server

Static IP Address

To manually configure an IP address, select this option and input the IP address, subnet mask, default gateway, primary and secondary DNS server address.

Current Network Settings

Displays the current IP address, subnet mask, default gateway, primary and secondary DNS server address of the camera.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset



FTP

This section configures the FTP server address that the camera will connect to.

FTP

FTP Server	
Host name or IP address : Upload path : Port Number :	192.168.1.1 default_folder 21
Login Information	
User Name : Password :	ftpuser ••••
Test Remote FTP se	rver
Server status : FTP Test	
	Save Reset

FTP Server

Host Name or IP Address

Specify the host name or IP address of the FTP server.

Upload Path

Specify the directory that the camera will upload data to.

Port Number

Specify the port number of the FTP server.

Login Information

Username

Specify the login username for the FTP server.

Password

Specify the login password for the FTP server.

Test Remote FTP Server

Server Status:

Displays the status of the test connection.

FTP Test

Tests the network connection between the camera and FTP server.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset



SMTP

This section configures the SMTP mail server address that the camera will use for sending emails.

SMTP

SMTP Server		
Mail server : Port Number :	192.168.1.1 25	(Host name or IP address)
Login Information		
User Name : Password : Email address from :	smtpuser •••• user@domain.com	
To Mail Address		
Mail address :	user@domain.com Mail Test Status : Mail Test	
	Save	eset

SMTP Server

Mail Server

Specify the host name or IP address of the SMTP mail server.

Port Number

Specify the port number of the SMTP mail server.

Login Information

Username

Specify the login username for the SMTP mail server.

Password

Specify the login password for the SMTP mail server.

Email Address From

Specify the email address of the sender.

To Mail Address List

Mail Address

Specify the email address to send the email when an event is triggered by motion detection. Press the **Mail Test** button to test the connection to this email.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

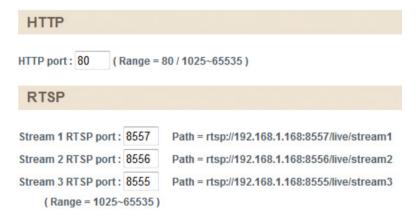
Reset



Ports

This section configures the HTTP port number of the web configuration menu and RTSP port number of stream 1 to 3.

Ports





HTTP

HTTP Port

Configures the HTTP port number of the web configuration menu.

RTSP

Stream 1 to 3 RTSP Port

Configures the RTSP port number of stream 1 to 3, and displays the URL of stream 1 to 3. The range is 1025~65535.

Default URL of Stream 1: rtsp://cameralP:8557/live/stream1 Default URL of Stream 2: rtsp://cameralP:8556/live/stream2 Default URL of Stream 3: rtsp://cameralP:8555/live/stream3

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset



Events

Motion Detection

This section configures which area of the live video in **Viewer** will be monitored for detecting motion.

Motion Detection Settings ☐ Enable motion detection Sensitivity: 50 (Range: 1~100) **Detection Zones**

Settings

Enable Motion Detection

Enables or disables motion detection function.

Sensitivity

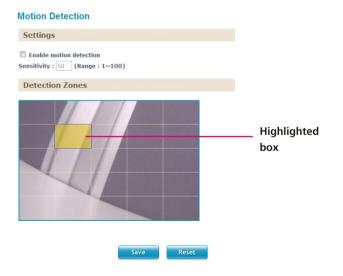
Configures the sensitivity of motion detection, the sensitivity determines the amount of motion required to trigger an event, the range is 1 to 100, with 1 being the least sensitive. For more information on event, please refer to **Event Actions** on page 29.

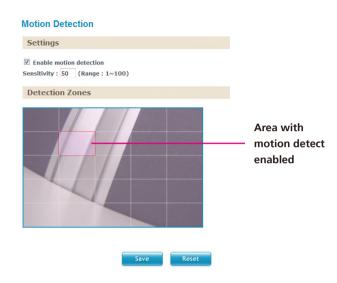


Detection Zones

This section shows the live video from the camera, the screen is divided into 5x5 rectangular boxes, to setup motion detection, please follow the instructions below

- 1. Check the **Enable motion detection** option, and specify the sensitivity level.
- 2. In the live video screen below, select the desired area for motion detection by clicking on the rectangular box. The border of the box will turn red indicating that it is selected. You can select multiple boxes, up to 5x5 boxes can be selected.
- 3. Press the **Save** button once all the desired areas are selected for the changes to take effect.





To remove motion detection from an area, click the box to deselect it, then press the **Save** button for the changes to take effect.



Alarm In/Out Trigger

This section configures the IP camera to work with external alarm in/out devices.

Alarm In Out Actions



Alarm In Out Actions

Alarm In Mode

Enables or disables monitoring of alarm input. Enables this option if an external sensor device connected to the alarm input requires monitoring.

Alarm In Level

Specify the signal level required for triggering the alarm device connected to the alarm output. The options are **Low** and **High**.

Alarm Out Mode

Specify the alarm out mode, the options are **User Mode** and **Event Mode**. When **User Mode** is selected, the alarm output will be triggered based on user configurations. When **Event Mode** is selected, the alarm output will be triggered based on the configurations set in **Event Actions**. For more information on **Event Actions**, please refer to page 29.

Alarm Out Level

Specify the alarm output action to perform when it is triggered. The options are **Low** and **High**.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset

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Event Actions

This section configures what actions to perform when motion detection or alarm in is triggered.

Event Actions

When Motion Detection Triggered
Save stream to SD card File format: AVI ▼ □ Upload stream to FTP server File format: AVI ▼ □ Send email notification □ Alarm Output
When Alarm In Triggered
■ Save stream to SD card File format: AVI ■ Upload stream to FTP server File format: AVI ■ Send email notification ■ Alarm Output
Save

When Motion Detection Triggered

Save Stream to SD Card

Check this option to store the video stream onto the SD card. Select the desired file format in the drop down menu, the options are **AVI** and **JPEG**.

Upload Stream to FTP Server

Check this option to upload the video stream to a FTP server. Select the desired file format in the drop down menu, the options are **AVI** and **JPEG**. For information on configuring the FTP server, please refer to **FTP** on page 23.

Send Email Notification

Check this option to send an email notifying the event, for more information on configuring the email address, please refer to **SMTP** on page 24.

Alarm Output

Check this option to activate the device connected to alarm output when motion detection is triggered.

When Alarm In Triggered Save Stream to SD Card

Check this option to store the video stream onto the SD card. Select the desired file format in the drop down menu, the options are **AVI** and **JPEG**.

Upload Stream to FTP Server

Check this option to upload the video stream to a FTP server. Select the desired file format in the drop down menu, the options are **AVI** and **JPEG**. For information on configuring the FTP server, please refer to **FTP** on page 23.



Send Email Notification

Check this option to send an email notifying about the alarm event, for more information on configuring the email address, please refer to **SMTP** on page 24.

Alarm Output

Check this option to activate the device connected to alarm output when alarm in is triggered.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset



System

Audio

This section is used to configure the audio settings.

Audio	
Audio Settings	
Audio In Enable	
Audio In Volume :	80 (Range = 1~100)
Audio Out Enable	
Audio Out Volume :	80 (Range = 1~100)
	Save Reset

Audio Settings

Audio In Enable

Enables or disables audio-in on the camera. When enabled, specify the volume in the **Audio In Volume** textbox. The range is 1~100.

Audio Out Enable

Enables or disables audio-out on the camera. When enabled, specify the volume in the **Audio Out Volume** textbox. The range is 1~100.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset



User Management

This section is used to manage user accounts for accessing the IP camera's web configuration menu.

User Management Add / Modify User Accounts Password Confirm Password Authority User Information • (Username and password must be for least 1 characters.) **User List** User Name User Group User Information Edit User Delete User Administrator Edit admin Administrator Reset

Add/Modify User Accounts

To add a user account, type in the username and password (username and password must be at least 1 character), retype the password to confirm, then choose the access level for the account in the **Authority** drop down list. You can also provide a description for the account under the **User Information** field

Access Level

Administrator: Has full control (read/write) over every configuration

menu item.

Operator: Has full control (read/write) over every configuration

menu item in Video and Event only.

Viewer: Only has access (read) to the live view of the camera

(main screen).

User List

Displays user accounts available on the camera, to edit an account's password, click the **Edit** button, then retype the new password in the **Password** and **Confirm Password** fields.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset



SD Card Management

This section is used to manage the SD card.

SD Card Information Path: Format SD card is unavailable SD card is unavailable: NO SD SD card available: NO SD SD Card Overwrite: OFF ON Save File List Folder Name

SD Card Information

If a SD card is installed, this section will display information on the availability of the SD card, and the percentage of the total storage used.

Format

Formats the SD card, all data stored on the SD card will be erased if this option is used.

SD Card Overwrite

Enables or disables overwrite protection for the SD card. Press the **Save** button to apply the setting.

File List

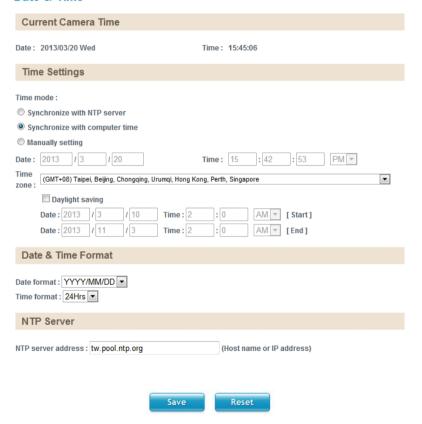
Displays the information of the folders and files stored in the SD card.



Date & Time

This section configures the date and time on the camera.

Date & Time



Current Camera Time

Displays the current date and time on the camera.

Time Settings

Synchronize with NTP Server

Select this option to synchronize the date and time with a NTP server.

Synchronize with Computer Time

Select this option to synchronize the date and time to the computer connected to the camera.

Manually Setting

Select this option to manually configure the date and time.

Time Zone

Select the time zone relevant to your location in the drop down list.

Daylight Saving

Select this option to enable daylight saving. The Start/End date and time for daylight saving can be manually configured in the text boxes beneath the option.

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Date & Time Format

Date Format

Configures the format that the date will be displayed in. The options are **YYYY/MM/DD, MM/DD/YYYY** and **DD/MM/YYYY**.

Time Format

Configures the format that the time will be displayed in. The options are **12Hrs** and **24Hrs**.

NTP Server

NTP Server Address

If **Synchronize with NTP Server** is selected as the time mode, type in the host name or IP address of the NTP server.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset



Firmware Upgrade

This section is used to update the IP camera's firmware.

Firmware Upgrade

Firmware Version		
Application version:	NexWare_01.00.0000	
Update		
Specify the firmware image file t	o upgrade:	瀏覽
	Update	

Firmware Version

Application Version

Displays the current firmware version.

Update

Specify the Firmware Image File to Upgrade

To update the camera's firmware, click on the **Browse** button and locate the firmware image file, once the file is selected, press the **Update** button to begin.



The firmware update process will take around 15 minutes to complete, during this time, do not disconnect the network cable, reset or power off the IP camera, as you may damage the device.



Maintenance

This section is used to restart the IP camera, or restore it to factory default settings.

Maintain Restart Reboot the camera. Reset to Default Resets all camera parameters to the factory default settings. Camera Name Settings Camera Name:

Maintain

Restart

Click this button to reboot the camera.

Reset to Default

Click this button to restore all the camera's setting back to factory default.

Camera Name Settings

Camera Name

Specify a name for the camera. The name will be displayed in the upper left corner on the live video stream of the camera. To enable this, make sure the option **Display Camera Name** in the **Overlay Settings** menu is checked. For information on the **Overlay Settings** menu, please refer to page 19.

Save

Save button to apply the configurations, click on this button once all the settings are confirmed for the new changes to take effect.

Reset



Chapter 3: Viewing Live Video via VLC Media Player

The IP camera's live video can be viewed by third party media players such as VLC media player from VideoLAN project [http://www.videolan.org/]. To stream the live video from the camera to VLC media player through the network, please follow the instructions below.

- 1. Locate and open VLC media player.
- 2. Go to Media -> Open Network Stream.
- 3. Enter the following RTSP URL:

rtsp://192.168.1.168:8557/live/stream1

Note: RTSP URL of stream 1, similarly you can view stream 2 and 3 of the camera by entering their corresponding URLs. Please refer to **Ports** on page 25 for more information on the URI link

4. Press the **Play** button to start streaming.

