

CE FC

NETWORK CAMERA

User Manual

- ※ Install IP Scanner from a download URL below and run it after the camera installation.
<https://downloads.magicdvr.com/IPCamera/>
- ※ Please change the initial password to protect your information safely and prevent damage from information theft when logging in for the first time. Other issues caused by security and incorrect password management are the responsibility of the user.

Safety Precaution

This quick manual contains basic instructions on installing the cctv cameras. Safety warnings and precautions are intended to promote proper use of the product and thereby prevent accidents and property damage and must be followed at all times.

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN THE COVER OF THE PRODUCT	
<p>WARNING: Servicing of this product by unauthorized personnel is prohibited and will result in a void of warranty. In order to ensure the most stable conditions for power, the use of a UPS (Uninterrupted Power Supply) is recommended.</p> <p>CAUTION: Do not reduce the risk of electric shock, Do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.</p>		



This symbol is intended to alert the user to the presence of noninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product

- **Warning :**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- **Caution :**

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Mains power quality should be that of a typical commercial environment. If the user of the model requires continued operation during power mains interruptions, it is recommended that the model be powered from an uninterruptible power supply(UPS) or a battery.

Safety Precaution

NOTICE

1. Electrical safety

- All installation and operation here should conform to local electrical safety codes.
- Use a certified/listed 12VDC Class 2 power supply only.
- Please note: Do not connect two power supplying sources to the device at the same time; it may result in device damage! The product must be grounded to reduce the risk of electric shock.
- Improper handling and/or installation could run the risk of fire or electrical shock.

2. Environment

- Heavy stress, violent vibration or exposure to water is not allowed during transportation, storage and installation.
- This product should be installed in a cool, dry place away from direct sunlight and heat sources.
- Do not install the product in extreme temperature conditions.
- Do not expose the camera to electromagnetic radiation. Otherwise it may result in CMOS sensor failure.
- Do not block any ventilation openings.
- Do not allow water and liquid intrusion into the camera.

3. Operation and Daily Maintenance

- Please shut down the device and then unplug the power cable before you begin any maintenance work.
- Do not touch the CMOS sensor optic component. You can use a blower to clean the dust on the lens surface.
- Always use the dry soft cloth to clean the device. If there is too much dust, use a cloth dampened with a small quantity of neutral detergent. Finally use the dry cloth to clean the device. Please use a professional optical cleaning method to clean the enclosure. Improper enclosure cleaning (such as using cloth) may result in poor IR functionality and/or IR reflection. The grounding holes of the product are recommended to be grounded to further enhance the reliability of the camera.
- Dome cover is an optical device, please don't touch or wipe cover surface directly during installation and use, please refer to the following methods if dirt is found:
 - Stained with dirt: Use oil-free soft brush or hair dryer to remove it gently.
 - Stained with grease or fingerprint: Use oil-free cotton cloth or paper soaked with alcohol or detergent to wipe from the lens center outward. Change the cloth and wipe several times if it is not clean enough.

Contents

Safety Precaution	02
Contents	04
Operating Instruction	06
1. System Requirement	06
2. IP Scanner	06
3. Live View	07
4. Playback	08
5. Alarm	09
6. Configuration Menu Table	10
SETUP - Configuration	12
1. Camera	12
1-1. Image	12
1-2. Video	15
1-3. Audio	16
1-4. Snapshot	16
2. Network	17
2-1. Basic	17
2-2. Service Ports	18
2-3. P2P	18
2-4. Connect Check	18
3. AF Configuration	19
4. Event	19
4-1. Motion Detect	19
4-2. IO	21
5. Storage	22
5-1. General Config	22
5-2. Schedule Record	22
5-3. Device Manager	22

Contents

6. System	23
6-1. User Manage	23
6-2. Device Language	23
6-3. Date & Time	23
6-4. Factory Reset	24
6-5. Reboot	24
6-6. Auto Maintain	24
6-7. Upgrade	24
7. Information	24
7-1. Version	24
Trouble Shooting	25

Operating Instruction

1. SYSTEM REQUIREMENTS

- 1 Operating System
 - Window Vista (32bit) Ultimate, Business edition
 - Windows 7,8 (32/64bit) Ultimate, Professional edition
- 2 Processor
 - Intel Core2 Duo 2.4GHz or higher (for using 1920x1080/30fps)
 - Intel Core i7 2.8 GHz or higher (for using 1920x1080/30fps)
- 3 Memory
 - 2GB or more
- 4 Resolution
 - 1280x1024 pixels or higher (32bit color)
- 5 Web Browser
 - Microsoft IE ver.9.0, 10.0 or higher
 - Safari ver.4.0 (Plug-in free viewer only)
 - Chrome ver.4.0 (Plug-in free viewer only)

2. IP SCANNER

IP Scanner can search for the device on the local network.

- 1 Make sure that the camera and the PC are connected to the same local network. The camera is set to DHCP by default.
- 2 Install IP Scanner from a download URL below and run it after installation.
<https://downloads.magicdvr.com/IPCamera/>
- 3 In the device list, you can view the IP address, model number, and MAC address of each device.
Select the applicable device and double click to open up the video window.
You can also manually enter the IP address in the address bar of the web browser.



Operating Instruction

Default user name is **admin**
and password is **1234567a**

IP Camera Web Login

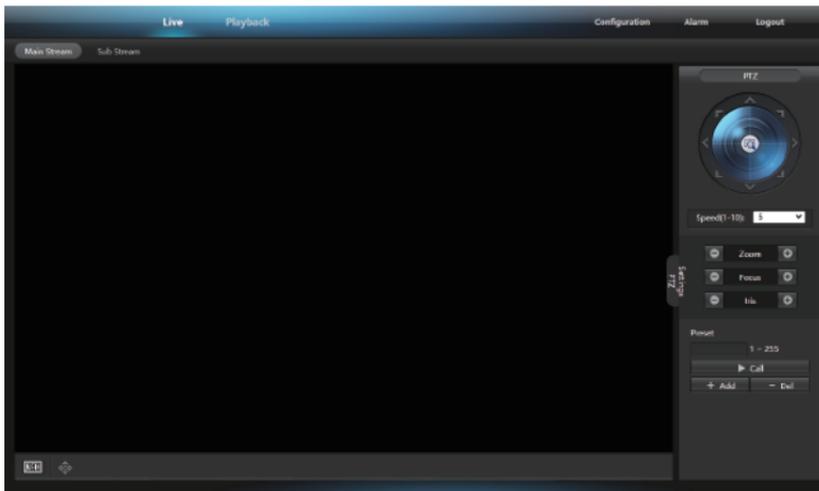
Username

Password

Language:

3. LIVE VIEW

The network camera's Live View page appears in your browser after login.

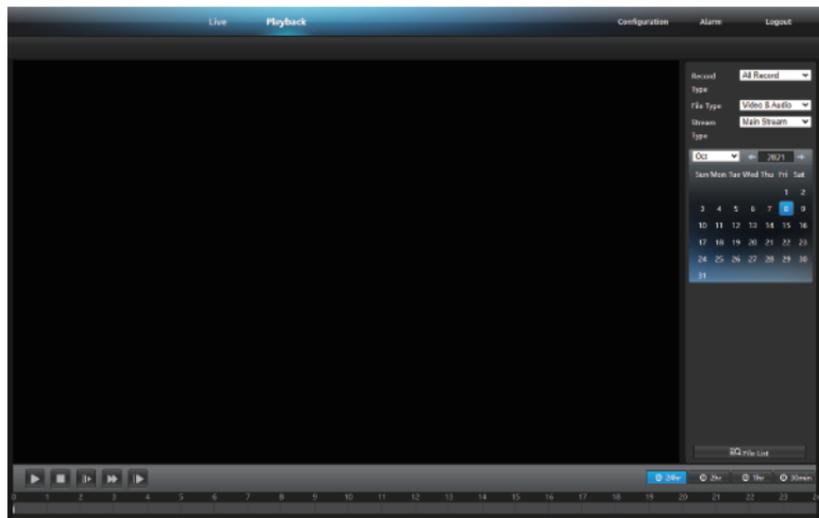


- Main Stream / Sub Stream: Specify the viewable video stream source to display in live view page.
- PTZ settings: Open the pan/tilt/zoom operation setting and re-adjust the focus of camera.
- WH: Turns on, the current live image will be displayed in original proportions.

Operating Instruction

4. PLAYBACK

The playback function is mainly composed of general video search.
Before using this function, please check the record option in storage menu.



- Record Type : Searched by record types. Select All record, Motion Detect, Schedule Record, or Alarm Record.
- File Type : Searched by record file types. Select Video&Audio, Only Video, or Picture.
- Stream Type : Searched by stream types. Select Main Stream, Sub Stream, or All.
- Calendar : Searched by date & time.



Play Stop Slow Fast NextFrame

Operating Instruction

Click 'Alarm' on the top-right of the web viewer.



Alarm

5. ALARM

The camera detects an alarm event and triggers the alarm directly.

The alarm page displays a list of time, alarm type, and alarm channel.

No.	Time	Alarm Type	Alarm Channel
38	2018-01-01 00:11:11	Motion Detect	1
37	2018-01-01 00:11:00	Motion Detect	1
36	2018-01-01 00:11:04	Motion Detect	1
35	2018-01-01 00:10:51	Motion Detect	1
34	2018-01-01 00:10:27	Motion Detect	1
33	2018-01-01 00:10:20	Motion Detect	1
32	2018-01-01 00:10:20	Motion Detect	1
31	2018-01-01 00:10:18	Motion Detect	1
30	2018-01-01 00:09:46	Motion Detect	1
29	2018-01-01 00:09:41	Motion Detect	1
28	2018-01-01 00:09:42	Motion Detect	1
27	2018-01-01 00:09:40	Motion Detect	1
26	2018-01-01 00:09:37	Motion Detect	1
25	2018-01-01 00:09:36	Motion Detect	1
24	2018-01-01 00:09:28	Motion Detect	1
23	2018-01-01 00:09:27	Motion Detect	1
22	2018-01-01 00:09:25	Motion Detect	1
21	2018-01-01 00:05:22	Motion Detect	1
20	2018-01-01 00:00:23	Motion Detect	1
19	2018-01-01 00:00:12	Motion Detect	1
18	2018-01-01 00:00:11	Motion Detect	1
17	2018-01-01 00:00:06	Motion Detect	1
16	2018-01-01 00:00:07	Motion Detect	1
15	2018-01-01 00:00:01	Motion Detect	1
14	2018-01-01 00:00:04	Motion Detect	1
13	2018-01-01 00:00:01	Motion Detect	1
12	2018-01-01 00:00:21	Motion Detect	1
11	2018-01-01 00:00:19	Motion Detect	1
10	2018-01-01 00:00:10	Motion Detect	1
9	2018-01-01 00:00:14	Motion Detect	1
8	2018-01-01 00:00:13	Motion Detect	1
7	2018-01-01 00:00:26	Motion Detect	1
6	2018-01-01 00:00:25	Motion Detect	1
5	2018-01-01 00:00:22	Motion Detect	1
4	2018-01-01 00:00:18	Motion Detect	1
3	2018-01-01 00:00:14	Motion Detect	1
2	2018-01-01 00:00:32	Motion Detect	1
1	2018-01-01 00:00:17	Motion Detect	1

SETUP MENU

• CONFIGURATION - MENU TABLE

Main	Sub	Tab	Function
Camera	Image	Image	Brightness, Contrast, Saturation, Sharpness, BLC, HLC, 2DNR, 3DNR, Power Frequency, Forced anti-flicker, Horizon Flip, Vertical Flip, Defogging, WDR mode, Day shutter mode, Night shutter mode, IR Cut Setting, Advanced Image and LED light Control
		OSD	OSD, Color Style, Font Size, Overlay Items, Time Position, Time Format, 12H/24H, Title Position, Title Message
		Custom Title	Status, Title Position, Type, Font Size, Content
		Privacy Mask	
	Video	Encode	Main Stream/ Sub Stream (Status, Video Compression, Resolution, Frame Rate(fps), Bit Rate Type, Quality, Customize Qp), Third Stream(Status), Advance Encode(Profile)
	Audio	Encode	Enable, Encode Type, Sample Rate, Bitrate
		Volume	Audio Input Volume, Audio Output, Volume, Amplifier
Snapshot	Snapshot Settings	Snapshot, Snapshot quality	
Network	Basic	TCP/IP	Mode, MAC address, IP Version, IP address, Subnet Mask, Default Gateway, Preferred DNS Server, Alternate DNS Server, All Subnet Onvif
	Service Ports	Service Ports	WEB/ONVIF, Control Protocol, RTSP
	P2P	P2P	Enable/Disable
	Connect Check		
AF Configuration			Enable, Protocol version, Data transmission
Event	Motion Detect	Motion Detect	Enable(Schedule Setup, Detection Area Setup), Trigger Recording, Trigger Snapshot, Trigger Audio
	IO	Input	Input Port
		Output	Output Port (Output Type, Alarm Duration, Daytime Alarm, Night Alarm)

SETUP - Configuration

Main	Sub	Tab	Function
Storage	General Config	Storage Config	Local Storage, Network Storage, Allow Overwrite, Max Record Time, Time-lapse
	Schedule Record	Schedule Record	Enable, Video Stream, Media Format, With Audio
	Device Manager	Device Manager	SD1, USB Storage Device, Network Storage Device
System	User Manage	User Manage	User
	Device Language	Device Language	
	Date & Time	Date & Time	Update Method, Time Zone, Current Time, Enable DST
	Factory Reset	Factory Reset	
	Reboot	Reboot	
	Auto Maintain	Auto Maintain	Enable, Date, Time
	Upgrade	Upgrade	Select Firmware
Information	Version	Version	Kernel, Firmware, Web, S/N

* Product function and manual may be modified without prior notice.

SETUP - Configuration

Click 'Configuration' on the top-right of the web viewer.



Configuration

1. CAMERA

1-1. Image

The screenshot displays the 'Image' configuration page in a web viewer. The top navigation bar includes 'Image', 'OSD', 'Custom Title', and 'Privacy Mask'. The left sidebar lists various camera settings: Camera, Image, Video, Audio, Snapshot, Network, AF Configuration, Event, Storage, System, and Information. The main area features a live video feed of a city street. Below the feed are 'Reset Defaults', 'Refresh', and 'Save' buttons. The configuration panel on the right is divided into several sections:

- Brightness**: Slider set to 2
- Contrast**: Slider set to 50
- Saturation**: Slider set to 125
- Sharpness**: Slider set to 10
- BLC**: Slider set to 0
- HLC**: Slider set to 0
- 2D NR**: Slider set to 128
- 3D NR**: Slider set to 128
- Power Frequency**: Radio buttons for 50Hz (selected) and 60Hz
- Forced anti-flicker**: Dropdown menu set to 'Disable'
- Horizon Flip**: Dropdown menu set to 'Disable'
- Vertical Flip**: Dropdown menu set to 'Disable'
- Defogging**: Dropdown menu set to 'Disable'
- WDR Mode**: Dropdown menu set to 'Disable'
- Day Shutter Mode**: Dropdown menu set to 'Auto'
- Night Shutter Mode**: Dropdown menu set to 'Auto'
- IRCut Setting**:
 - IRCut Mode**: Dropdown menu set to 'External'
 - Keep Color**: Dropdown menu set to 'No'
- Advanced Image and Smart LED light Control**:
 - Light Mode**: Dropdown menu set to 'Pure infrared light'
 - Image Option**: Dropdown menu set to 'Normal'
 - Light off sensitivity**: Slider set to 40
 - LED Control Mode**: Dropdown menu set to 'Auto'
 - Light on illumination**: Dropdown menu set to '0.01'
 - Image Mode**: Dropdown menu set to 'Normal'

SETUP - Configuration

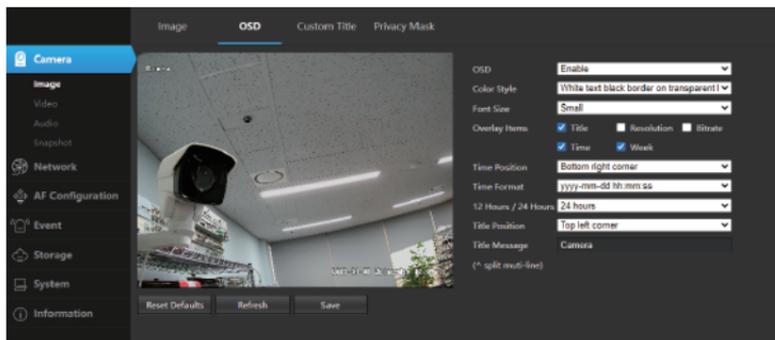
1) Image

- **Brightness** : Adjusts the brightness value of video. (1~255)
- **Contrast** : Adjusts the contrast value of video. (1~255)
- **Saturation** : Adjusts the saturation value of video. (1~255)
- **Sharpness** : Adjusts the sharpness value of video. (1~255)
- **BLC (Backlight Compensation)** : When there is a strong backlight behind the object, clear images of the background as well as the object can still be obtained by using BLC function.
- **HLC (Highlight Compensation)** : This function is being prevented against headlights of vehicle effectively. It is suitable function to see license plate at night.
- **2DNR / 3DNR (Digital Noise Reduction)** : This function improves picture quality by filtering out signal noise which is generated under the low light conditions. Sets 2DNR or 3DNR level. It is effective at low light condition. Setting high value is strength of noise reduction but the result may occur in loss of sharpness and the tail effect of a comet.
- **Power Frequency** : Automatically setting to PAL or NTSC.
- **Forced anti-flicker** : Reduce the flicker in video fluorescent lighting respectively.
- **Horizon Flip / Vertical Flip** : This function is useful when a camera is installed in upside down. Horizon flip is reversed left and right. Vertical flip is reversed upside down.
- **Defogging** : Enhance the foggy video according to status of scene. Video quality can be less in normal environments.
- **WDR Mode (Wide Dynamic Range)** : Improves the visibility for the high bright area and the dark area by compensating the video gain.
- **Day Shutter Mode / Night Shutter Mode** : Optimizes the video level by setting the shutter speed day time or night time.
- **IRCut Setting** : Sets the mode according to the light condition and the camera types.
 - External : This mode is controlled by CDS sensor.
 - Auto : This mode is controlled by the scene brightness.
 - Timming : This mode is controlled by setting time.
 - Manual : This mode is controlled manually.
- **Advanced Image and Smart LED light Control** : This function can be set to reduce the saturation by the IR illumination in the night.

SETUP - Configuration

2) OSD

Set up the camera title, time format, position and text color displayed on the screen.



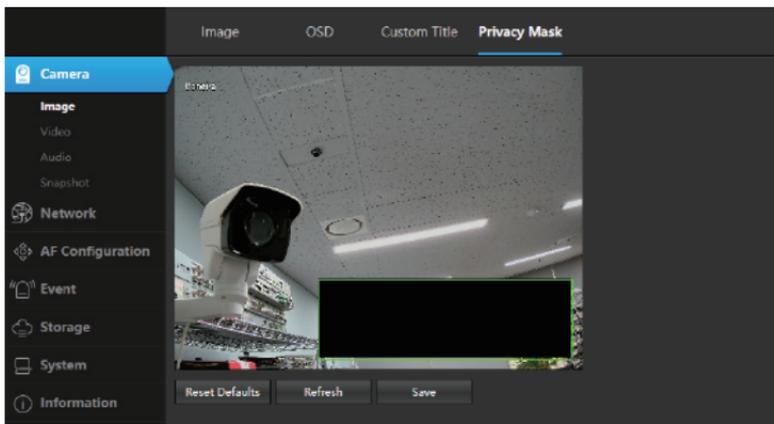
3) Custom Title

Set up specific camera name and position.

4) Privacy Mask

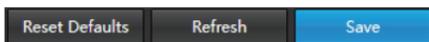
This function conceals the areas you do not want to appear on the screen.

- Add mask area : Drag the cursor on the screen. It can be set 1~4 areas.
- Remove mask area : Double click on the screen.



SETUP - Configuration

After the menu settings, you must click 'Save' button.

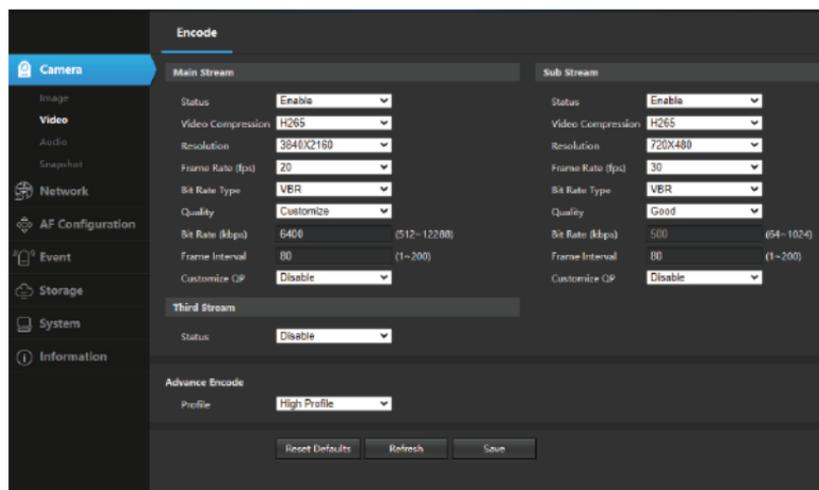


- **Reset Defaults** : Restore parameters to the default. Default settings set, click 'Save' to keep default settings.
- **Refresh** : Re-obtain the current interface parameters.
- **Save** : Save current settings.

1-2. Video

1) Encode

Specify the viewable video stream source to display in live view page. Set the main stream, sub stream and third stream options.



- **Status** : Choose Enable or Disable.
- **Video Compression** : Video decoding type, H265+, H.265 or H.264.
- **Resolution** : Select the video streaming image according to camera model.
- **Frame Rate(fps)** : Select the frame rate value according to camera resolution.
- **Bit Rate Type** : Select the bitrate level. For simple scenes, a constant bit rate (CBR) is suitable. For more complex scenes, variable bit rate (VBR) is more suitable.
- **Quality** : Select video quality level, Customize, Worse, Worst, Good, Better or Best.
- **Bit Rate(kbps)** : Automatically set according to 'Resolution' value.
- **Customize QP** : Video quality is customized by setting QP. Set the minimum and maximum values.

SETUP - Configuration

1-3. Audio

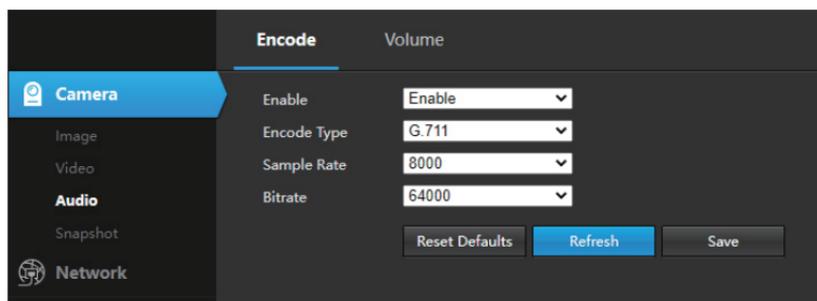
This menu can be set the audio decoding type and volume of the camera.

1) Encode

- **Enable** : Choose Enable or Disable.
- **Encode Type** : Select the audio decoding type. G.711, G.711A, AAC are supported.
- **Sample Rate** : Select sample rate value according to encode types.
- **Bitrate** : Select bitrate value according to encode types.

2) Volume

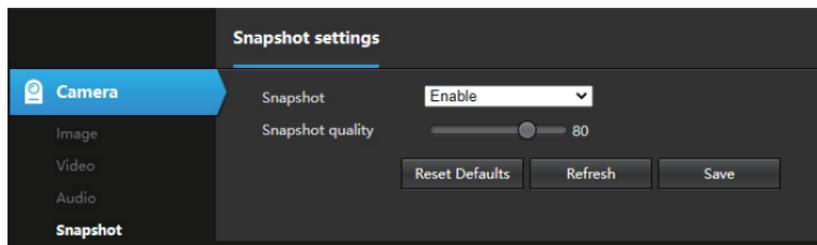
Set up the audio input/output volume level 1~100.



1-4. Snapshot

1) Snapshot settings

Set up the snapshot quality 20~100.



SETUP - Configuration

2. NETWORK

This menu allows you to configure network parameters. In most cases, the network type is DHCP unless you manually set a static IP.

The screenshot shows the 'TCP/IP' configuration interface. On the left is a navigation menu with options: Camera, Network (selected), Basic, Service Ports, P2P, Connect Check, AF Configuration, Event, Storage, System, and Information. The main content area is titled 'TCP/IP' and contains the following settings:

- Mode:** Radio buttons for Static and DHCP (selected).
- MAC Address:** F0-00-00-9B-E7-AA
- IP Version:** Dropdown menu set to IPv4.
- IP Address:** 192 . 168 . 0 . 45
- Subnet Mask:** 255 . 255 . 0 . 0
- Default Gateway:** 192 . 168 . 0 . 1
- Preferred DNS Server:** 219 . 250 . 36 . 130
- Alternate DNS Server:** 8 . 8 . 8 . 8
- All Subnet Onvif:** Unchecked checkbox.

At the bottom of the configuration area are three buttons: 'Reset Defaults', 'Refresh', and 'Save'.

2-1. Basic

1) TCP/IP

- **Mode :** The DHCP(Dynamic Host Configuration Protocol) server has a feature that automatically assigns an IP address to the device if there is a device on the network.
- **IP Version :** Select IP version IPv4 or IPv6.
- **IP Address :** The address of the camera connected to the network. Specify a unique IP address for this network camera.
- **Subnet Mask :** The address that determines the IP network that the camera is connected to. Specify the mask for the subnet the network camera located on.
- **Default Gateway :** The gateway that accesses other networks. Specify the IP address of the default router used for connecting devices attached to different networks and network segments.
- **All Subnet Onvif :** Select the choice box if you want to assign all subnet onvif manually.

SETUP - Configuration

2-2. Service Ports

Check the service port configuration.

Set to enable WEB/ONVIF, protocol control, and RTSP options.

The screenshot shows the 'Service Ports' configuration page. On the left is a navigation menu with options: Camera, Network (selected), Basic, Service Ports, P2P, Connect Check, AF Configuration, Event, Storage, System, and Information. The main content area is titled 'Service Ports' and contains the following settings:

- WEB/ONVIF**
 - WEB Enable:
 - Onvif Enable:
 - Onvif Authentication:
 - HTTP/Onvif Port: (80,1~65535)
 - html5 Port:
- Control Protocol**
 - Enable:
 - Port: (8091,1~65535)
- RTSP**
 - Authentication:
 - Port: (554,1~65535)

At the bottom right, there are three buttons: 'Reset Defaults', 'Refresh', and 'Save'.

2-3. P2P

Set up the P2P network options.

The screenshot shows the 'P2P' configuration page. On the left is a navigation menu with options: Camera, Network (selected), Basic, Service Ports, P2P (selected), Connect Check, AF Configuration, Event, Storage, System, and Information. The main content area is titled 'P2P' and contains the following settings:

- Enable:
- Cloud Type:
- Login Status: Offline
- Cloud ID:
- QR Code:

At the bottom right, there are three buttons: 'Reset Defaults', 'Refresh', and 'Save'.

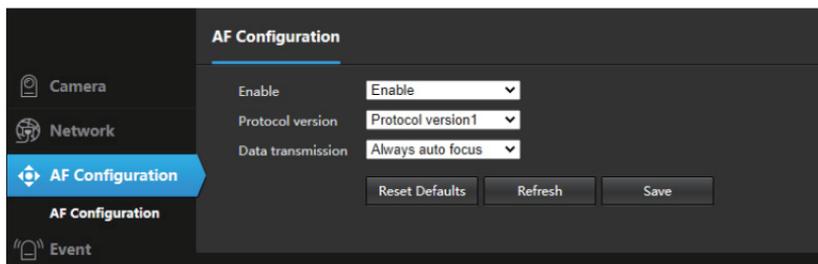
2-4. Connect Check

Check the network is connecting.

SETUP - Configuration

3. AF CONFIGURATION

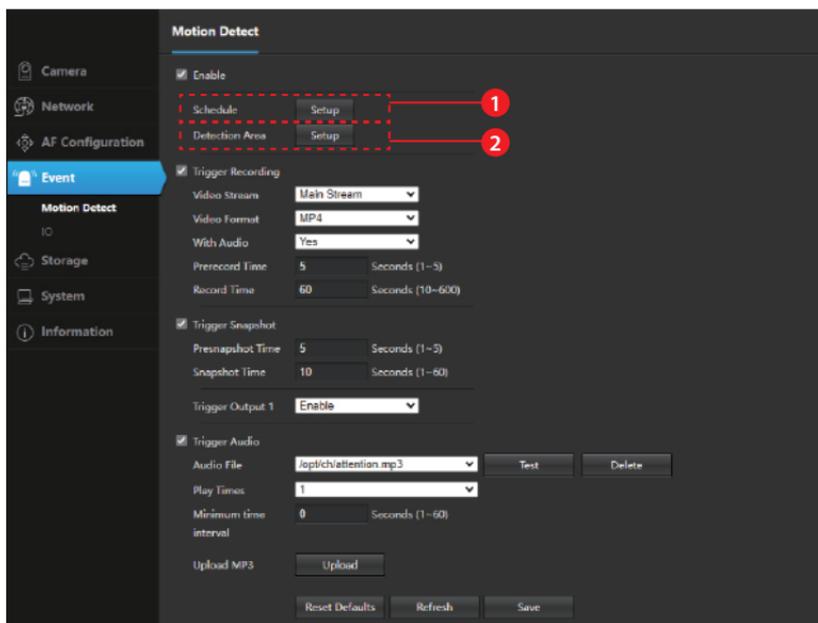
Set up the auto focus settings according to your network configuration.
 'Auto focus after the operation of the pan/tilt' and 'Always auto focus' are supported.



4. EVENT

4-1. Motion Detect

This menu allows you to configure motion detection parameters. When motion is detected, alarms are triggered. Sets the detection areas, schedule, and trigger options.

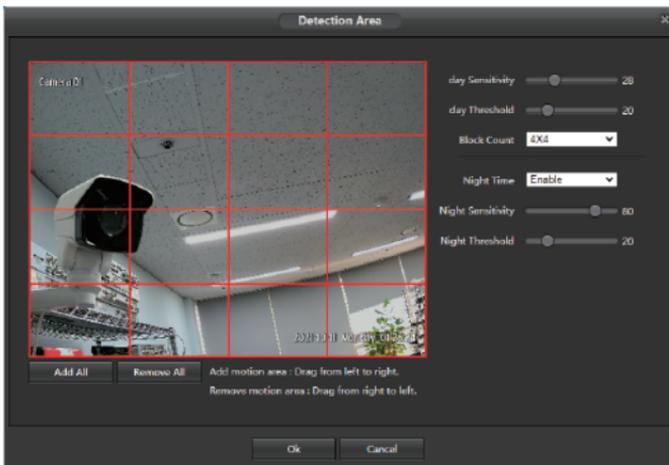


SETUP - Configuration

- 1 Schedule Setup : Set up the scheduled time of each motion detection. Drag the cursor on the time line or click 'All' button.



- 2 Detection Area Setup : Set up the motion detection area by block size.
 - Sensitivity: High value increases the sensitivity to detect the small motion easily.
 - Threshold: Low value decreases the threshold to detect the small motion easily.
 - Block Count : To set the zone delicately, set the block count with a high number. If you want to remove detection area, drag from right to left on the red block lines.



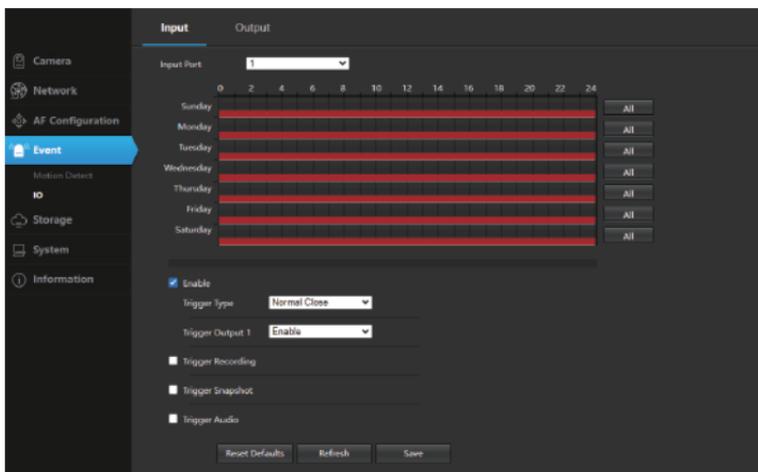
SETUP - Configuration

4-2. IO

This function can be enabled only if the camera supports I/O sensors and meanwhile is connected an external I/O alarm device.

1) Input

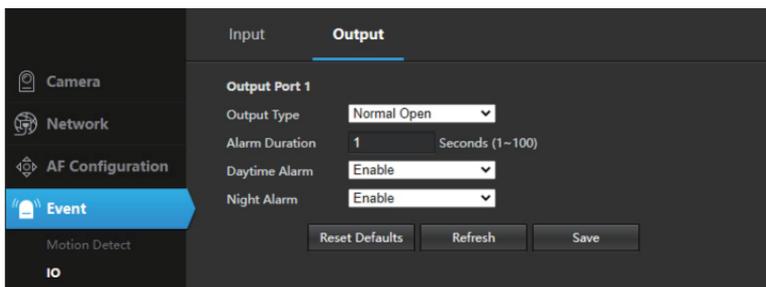
Input schedule time can be set to drag the cursor on specific daytime bar or click 'All' button. Check the enable box, it can be set the trigger type, trigger output, trigger recording, trigger snapshot, and trigger audio.



2) Output

Select a output type that matches your sensor type. Normally open, Normally close and Off are supported. Select "Off" to turn off the sensor trigger function.

It can be set alarm duration time that the camera IO alarm continues to alarm after the alarm ends.



SETUP - Configuration

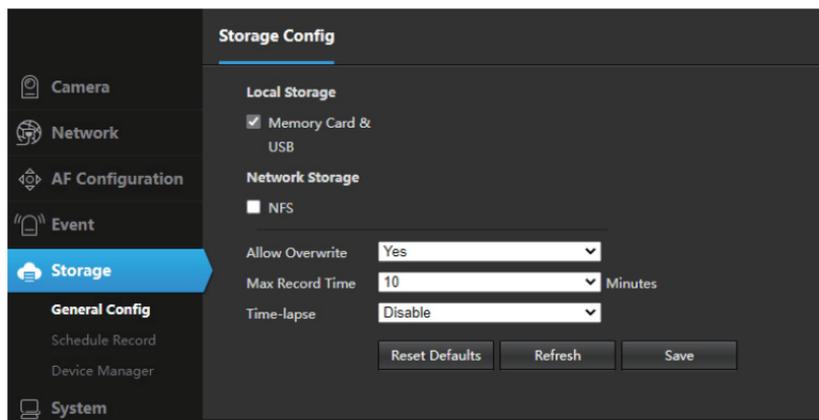
5. STORAGE

This menu allows you to set the storage configuration.

5-1. General Config

1) Storage Config

Set up local storage and network storage. When the overwrite mode is selected, it is automatically overwritten when the storage is full.



5-2. Schedule Record

1) Schedule Record

This menu allows you to specify a video recording schedule to be saved in storage. Records are performed only for the selected period. Drag the cursor on the schedule bars. Check the enable box, it can be set the video stream, media format, and audio.

5-3. Device Manager

1) Device Manager

This menu displays the current storage device status.

SETUP - Configuration

6. SYSTEM

6-1. User Manage

This menu allows you to configure user types, password and user permissions. If you want to add users, click 'Add User' button. To change user's password or user's group, click the modify icon on the registered user list.

The screenshot shows the 'Users' management interface. On the left, the 'System' menu is expanded to 'Users Manage', with the 'Add User' button highlighted by a red dashed box and a red circle with the number '1'. The main area displays a table of users:

No.	Enable	User Name	Group Name	Description	Modify	Delete
1	<input checked="" type="checkbox"/>	admin	Administrators	Have all the permissions		
2	<input checked="" type="checkbox"/>	admin	Administrators	Have all the permissions		
3	<input checked="" type="checkbox"/>	admin	Administrators	Have all the permissions		

The 'Modify' icon for the first user is highlighted with a red dashed box and a red circle with the number '2'. Below the table, two dialog boxes are shown:

Add User Dialog: Fields include User Name, Password, Confirm Password, Group (dropdown menu set to 'Administrators'), and Description (pre-filled with 'Have all the permissions'). Buttons for 'Save' and 'Cancel' are at the bottom.

Modify User Dialog: Fields include User Name (pre-filled with 'admin'), a checked 'Modify Password' checkbox, Old Password, New Password, Confirm Password, Group (dropdown menu set to 'Administrators'), and Description (pre-filled with 'Have all the permissions'). Buttons for 'Save' and 'Cancel' are at the bottom.

- 1 Add User : Types new user name, password, group selecting.
 - Administrators- Have all permissions
 - Operators- Have all permissions except for user management.
 - Users- Only watch configurations.
- 2 Modify User : Changes password or group.

6-2. Device Language

Select web viewer language.
Chose one of English, Chinese, Russian, Deutsch, Italiano, Turkiye, Polski, Korean.

6-3. Date & Time

- **Update Method** : Time setting modes are NTP, Manual, P2P. Manual option needs to be set by yourself. NTP synchronization will perform time calibration via network.
- **Time Zone** : Select the time zone related to your area or city.
- **Current Time** : Set the preferred time or click 'PC Sync' time to synchronize PC.
- **Enable DST** : This function allows you to choose to increase DST(Daylight Saving Time) in a specific time zone or region.

SETUP - Configuration

6-4. Factory Reset

Restore to factory default all the settings.

Restoring the default settings will not delete the videos and snapshots saved in the SD card.

6-5. Reboot

Reboot a camera.

6-6. Auto Maintain

This menu allows the system to automatically reboot periodically. It is recommended to keep this function enabled, because it can maintain the operational stability of the camera. Click to enable. Select one of weekday or everyday and specific time.

6-7. Upgrade

This menu allows to upgrade camera's firmware.

1. Click 'Browse' button to put firmware file.
2. Click 'Upgrade' button to start.

The upgrade will last about 5-10 minutes, please do not turn off the power of the camera or close this period.

7. INFORMATION

7-1. Version

It shows system information such as firmware version, web version, serial number, etc.

Trouble Shooting

Symptom	Checkpoint
The main unit won't turn on.	<ul style="list-style-type: none"> - Check the power cable connection. If using a PoE switch to supply power to the camera using an ethernet cable, check the ethernet cable connection. - Check the power outlet. If using a PoE switch to supply power to the camera using an ethernet cable, check the device's power supply.
PoE switch isn't being recognized.	<ul style="list-style-type: none"> - Check the grounding status of the I/O device connected to the camera and the PoE switch. If they are not grounded, ground them and try again.
I can't see Live videos.	<ul style="list-style-type: none"> - Check the camera's power status. - Ensure that cables are properly connected to the camera. - Check the network connection status of the computer and the camera.
Images are blurry.	<ul style="list-style-type: none"> - Make sure the lens is clean. If not, clean it using a soft piece of cloth or a brush. - Make sure the lens is in focus. Adjust the focus during daytime. - If there is too much light coming into the camera or the camera is picking up an overly bright light source, adjust the camera's position/ angle accordingly.
Video color appears incorrect.	<ul style="list-style-type: none"> - Check the white balance settings. If using the Auto option, it may take some time for the white balance to be adjusted.
Images are blinking.	<ul style="list-style-type: none"> - If the camera is pointed at the sun or a fluorescent lamp, adjust the camera's angle away.
Lost the admin ID and password and unable to connect to a camera.	<ul style="list-style-type: none"> - You must perform a factory reset. A factory reset will revert all settings, including network settings, to their factory defaults. After performing a factory reset, make a memo of the admin ID and password as a safety precaution.

NETWORK CAMERA

User Manual

This guide is for reference only.

Product, manuals and specifications may be modified without prior notice.