



20MP Outdoor Multisensor Camera OE-C9914M20-S

USER MANUAL



Table of Contents

Live View	3
Stream Settings.....	4
Video	4
Audio Configuration	6
Media Stream	7
Image	8
Exposure	8
Image Settings	11
PTZ.....	12
ROI.....	12
Privacy Mask	13
OSD	14
Network	15
Basic	15
SSL	16
IP Filter.....	18
DDNS.....	18
Event	19
Motion Detection.....	19
Alarm In	21
Alarm Out.....	22
Storage Settings	23
Storage	23
Snapshot Download.....	24
Recording Download.....	24
System	25
Date/Time	25
Maintenance.....	26
User Management.....	28

Live View

The main screen will be shown after successfully logging into the IP camera. The main screen allows users to view the live video of the 4 channels in the camera and provides options and status icons for configuring and monitoring the camera.



	Enters the setup menu for configuring the IP camera.
	On the first web page, the live view displays by 1x4 horizontally.
	On the first web page, the live view displays by 2x2
	Click to take a snapshot of View 1/ View 2/ View 3/ View 4.
	Refreshes the page.
	Switches to full-screen view.
	Power is AT mode.
	Displays the current login account. Move the mouse close to the icon to see which user is currently logged in. "Admins" indicates administrator account and "User" indicates user account.
	Logs out from the current login session.

Stream Settings

Video

Video settings configure video encoding parameters for each available stream.

Primary Stream 

Video Compression :	H.264	
Resolution :	2592x1944	
Bitrate Type :	VBR	
Frame Rate :	15	(0~30fps)
GOP Length :	30	(1~120)
Smart GOP :	☒	
Max Smart GOP :	180	(1~255)
Bit Rate :	6144	(500~12000kbit/s)

Primary Stream – Configures the primary video stream.

- **Video Compression** – Selects the video compression format (H.264).
- **Resolution** – Sets the video resolution. The available options are: 2592x1944, 2560x1440, 2304x1296, 2048x1536, 1920x1080, 1600x1200, 1280x960, 1280x720, 800x600, 640x480.
- **Bitrate Type** – Selects the bitrate control mode (VBR).
- **Frame Rate** – Sets the number of frames per second (0~30 fps).
- **GOP Length** – Sets the Group of Pictures (GOP) length (1~120).
- **Smart GOP** – Enables or disables Smart GOP optimization.
- **Max Smart GOP** – Sets the maximum Smart Group of Pictures (GOP) (1~255).
- **Bit Rate** – Sets the target video bitrate (500~12000 kbit/s).

Secondary Stream

Video Compression :

H.264

Resolution :

640x480

Bitrate Type :

VBR

Frame Rate :

10

(0~30fps)

GOP Length :

20

(1~120)

Bit Rate :

512

(64~4000kbit/s)

Secondary Stream – Configures the secondary video stream.

- **Video Compression** – Selects the video compression format (H.264).
- **Resolution** – Sets the video resolution. The available options are: 1920x1080, 1600x1200, 1280x960, 1280x720, 800x600, 640x480, 640x360.
- **Bitrate Type** – Selects the bitrate control mode (VBR, CBR).
- **Frame Rate** – Sets the number of frames per second (0~30 fps).
- **GOP Length** – Sets the Group of Pictures (GOP) length (1~120).
- **Bit Rate** – Sets the target video bitrate (64~4000 kbit/s).

Third Stream

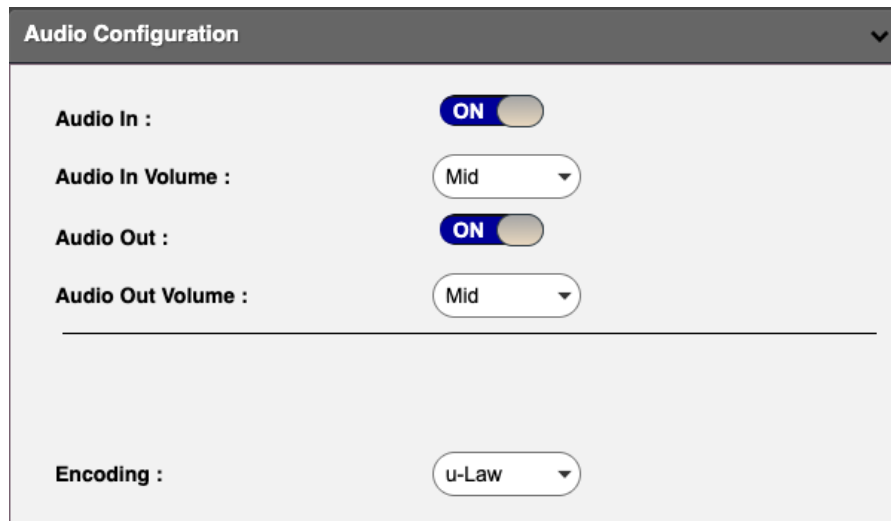
Video Compression :

OFF

Third Stream – Configures the third video stream.

- **Video Compression** – Enables or disables the third stream or selects the video compression format (MJPEG).

Audio Configuration



The screenshot shows a window titled "Audio Configuration" with a dark header bar containing a downward arrow. The window has a light gray background and contains the following settings:

- Audio In :** A toggle switch labeled "ON" in a blue box, which is currently turned on.
- Audio In Volume :** A dropdown menu showing "Mid" with a downward arrow.
- Audio Out :** A toggle switch labeled "ON" in a blue box, which is currently turned on.
- Audio Out Volume :** A dropdown menu showing "Mid" with a downward arrow.

Below a horizontal separator line, there is one more setting:

- Encoding :** A dropdown menu showing "u-Law" with a downward arrow.

Audio Configuration – Configures audio input, output, and encoding settings.

- **Audio In** – Enables or disables audio input.
- **Audio In Volume** – Sets the audio input volume level (High, Mid, Low).
- **Audio Out** – Enables or disables audio output.
- **Audio Out Volume** – Sets the audio output volume level (High, Mid, Low).
- **Encoding** – Selects the audio encoding format (a-Law, u-Law).

Media Stream

View 1

Media Stream

Stream Name	Stream Profile	Protocol	Destination IP	Destination Port	Persistent	Status	+
media/video1_1	Main Stream	TCP	172.30.44.67	34882	Disable	Streaming	🗑
media/video2_1	Sub Stream	TCP	172.30.44.67	34894	Disable	Streaming	🗑
media/video1_1	Main Stream	TCP	172.30.43.180	48706	Disable	Streaming	🗑
media/video2_1	Sub Stream	TCP	172.30.43.180	44336	Disable	Streaming	🗑

Select Camera View and Edit Media Stream – Selects a camera view and manages active media stream connections.

View 1 / View 2 / View 3 / View 4 – Displays the media stream configuration for the selected camera view.

Media Stream – Lists and manages active media stream entries for the selected view.

- **Stream Name** – Displays the name of the media stream.
- **Stream Profile** – Displays the stream profile assigned to the media stream (Main Stream, Sub Stream).
- **Protocol** – Displays the transport protocol used by the stream.
- **Destination IP** – Displays the IP address of the stream destination.
- **Destination Port** – Displays the port number of the stream destination.
- **Persistent** – Indicates whether the stream connection is persistent.
- **Status** – Displays the current streaming status.
- **+** – Adds a new media stream entry.
- **Delete** – Removes the selected media stream entry.

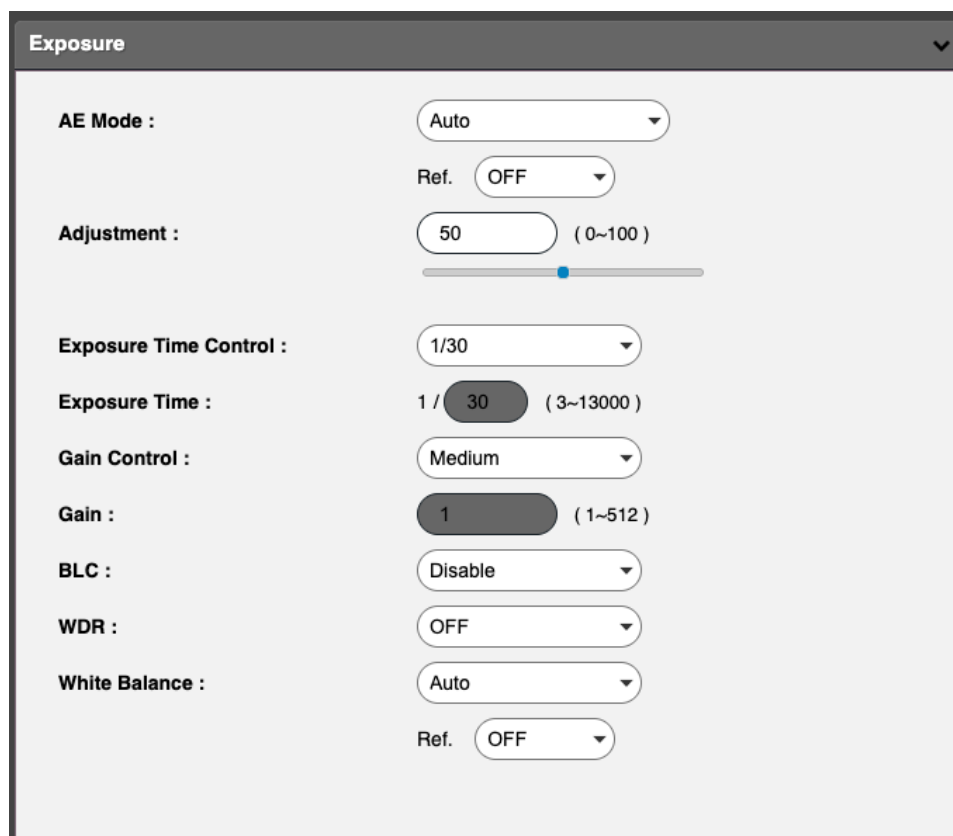
Image

Exposure



Global Mode:

- **Enable Global Mode (ON)** – Set up the parameters for 4 image channels together. The parameters of all 4 image channels will be the same and can be adjusted together. Press **Save** to keep the configurations.
- **Disable Global Mode (OFF)** – Set up the parameters for each image channel independently. Each image channel can be adjusted individually. After setting up the parameters, press **Save** to keep the configurations.

A screenshot of a camera's "Exposure" settings menu. The menu has a dark grey header with the word "Exposure" and a downward arrow. The settings are listed on the left, and their values are on the right. "AE Mode" is set to "Auto". "Ref." is set to "OFF". "Adjustment" is set to "50" with a range of "(0~100)" and a slider bar below it. "Exposure Time Control" is set to "1/30". "Exposure Time" is set to "1 / 30" with a range of "(3~13000)". "Gain Control" is set to "Medium". "Gain" is set to "1" with a range of "(1~512)". "BLC" is set to "Disable". "WDR" is set to "OFF". "White Balance" is set to "Auto". "Ref." is set to "OFF".

Setting	Value
AE Mode :	Auto
Ref.	OFF
Adjustment :	50 (0~100)
Exposure Time Control :	1/30
Exposure Time :	1 / 30 (3~13000)
Gain Control :	Medium
Gain :	1 (1~512)
BLC :	Disable
WDR :	OFF
White Balance :	Auto
Ref.	OFF

Exposure – Configures the camera exposure and image settings.

- **AE Mode** – Selects the auto exposure mode (Auto, 50Hz, 60Hz, Lock, Manual).
 - **Ref.** – Sets the auto exposure reference level (OFF, 1, 2, 3, 4).
- **Adjustment** – Sets the exposure adjustment level (0~100).
- **Exposure Time Control** – Selects the exposure time control mode (OFF, 1/30, 1/15, 1/7.5, Manual).

- **Exposure Time** – Sets the manual exposure time value (3~13000).
- **Gain Control** – Selects the gain control level (OFF, Low, Medium, High, Manual).
- **Gain** – Sets the manual gain value (1~512).
- **BLC** – Enables or disables Back Light Compensation.
- **WDR** – Enables or disables Wide Dynamic Range (OFF, Low, Medium, High).
- **White Balance** – Selects the white balance mode (Auto, Manual).
 - **Ref.** – Sets the white balance reference level (OFF, 1, 2, 3, 4).
 - **Gain** – when set to **Manual**, set the white balance gain levels.
 - **R Gain** – Sets the red channel gain for manual white balance (0~1000).
 - **B Gain** – Sets the blue channel gain for manual white balance (0~1000).

White Balance : Manual ▼

R Gain : 100 (0~1000)

B Gain : 100 (0~1000)

Day/Night Settings

Day/Night Settings

Day/Night Mode :

Auto

D/N Auto Focus Calibration :

OFF

IR Control :

Auto

IR Intensity :

7

(1~10)

Reference Channel Mode :

OFF

View 1

Current Day Night Level :

50

Day to Night Switching Level :

5

(0~100)

Night to Day Switching Level :

60

(0~100)

View 2

Current Day Night Level :

68

Day to Night Switching Level :

5

(0~100)

Night to Day Switching Level :

60

(0~100)

View 3

Current Day Night Level :

28

Day to Night Switching Level :

5

(0~100)

Night to Day Switching Level :

60

(0~100)

View 4

Current Day Night Level :

37

Day to Night Switching Level :

5

(0~100)

Night to Day Switching Level :

60

(0~100)

Day/Night Settings – Configures day/night mode and IR settings for each camera view.

- **Day/Night Mode** – Selects the day/night switching mode (Auto, Day, Night, Schedule).
- **D/N Auto Focus Calibration** – Enables or disables automatic focus calibration during day/night transitions.
- **IR Control** – Selects the IR illuminator control mode (Auto, OFF, ON).
- **IR Intensity** – Sets the IR illuminator intensity level (1~10).
- **Reference Channel Mode** – Selects the reference channel used for day/night switching decisions (OFF, Reference Channel, 1 Channel or more, 2 Channels or more, 3 Channels or more, All Channels).

View 1 / View 2 / View 3 / View 4 – Displays and configures day/night switching levels for each camera view.

- **Current Day Night Level** – Displays the current day/night light level for the view.
- **Day to Night Switching Level** – Sets the light level threshold at which the camera switches from day to night mode (0~100).
- **Night to Day Switching Level** – Sets the light level threshold at which the camera switches from night to day mode (0~100).

Image Settings

Image Rotation

Use a combination of checkboxes for each View to achieve desired image orientation

View 1 : ☐ Mirror ☐ Flip ☐ Rotate 90

View 2 : ☐ Mirror ☐ Flip ☐ Rotate 90

View 3 : ☐ Mirror ☐ Flip ☐ Rotate 90

View 4 : ☐ Mirror ☐ Flip ☐ Rotate 90

Digital Processing View 1

Sharpness Adjust : 127 (0~255)

Saturation Adjust : 50 (0~100)

Contrast Adjust : 50 (0~100)

Brightness Adjust : 50 (0~100)

Hue Adjust : 50 (0~100)

Default Restore All Imaging Settings

Image Rotation – Configures the image orientation for each camera view.

View 1 / View 2 / View 3 / View 4 – Sets the image orientation for each camera view using a combination of the following options:

- **Mirror** – Flips the image horizontally.
- **Flip** – Flips the image vertically.
- **Rotate 90** – Rotates the image 90 degrees.

Digital Processing – Configures image quality settings for the selected camera view.

- **Sharpness Adjust** – Sets the image sharpness level (0~255).
- **Saturation Adjust** – Sets the image color saturation level (0~100).
- **Contrast Adjust** – Sets the image contrast level (0~100).
- **Brightness Adjust** – Sets the image brightness level (0~100).
- **Hue Adjust** – Sets the image hue level (0~100).
- **Default** – Restores default digital processing settings for the selected view.
- **Restore All Imaging Settings** – Restores default imaging settings for all camera views.

PTZ

PTZ

View: View 1

Focus: +20 +10 +5 +1 -1 -5 -10 -20

Zoom: +20 +10 +5 +1 -1 -5 -10 -20

Full Range Auto Focus Short Range

☒ Enable Auto Focus After Zoom

PTZ – Configures focus and zoom settings for the selected camera view.

- **View** – Selects the camera view to configure (View 1, View 2, View 3, View 4, All).
- **Focus** – Adjusts the focus in incremental steps. Positive values (+1, +5, +10, +20) increase focus; negative values (-1, -5, -10, -20) decrease focus.
- **Zoom** – Adjusts the zoom in incremental steps. Positive values (+1, +5, +10, +20) increase zoom; negative values (-1, -5, -10, -20) decrease zoom.
- **Auto Focus** – Triggers automatic focus adjustment.
 - **Full Range** – Performs an auto focus sweep across the full focus range.
 - **Short Range** – Performs an auto focus sweep across a short focus range.
- **Enable Auto Focus After Zoom** – Automatically triggers auto focus after a zoom adjustment is made.

ROI

ROI

Stream : Stream1

ROI – Configures the Region of Interest for the selected video stream.

- **Stream** – Selects the video stream to apply the Region of Interest settings to (Stream1, Stream 2).

View 2

ROI Zone 1 : OFF High Draw Clear

ROI Zone 2 : OFF High Draw Clear

ROI Zone 3 : OFF High Draw Clear

ROI Zone 4 : OFF High Draw Clear

ROI Zone 5 : OFF High Draw Clear

View 1 / View 2 / View 3 / View 4 – Configures up to five ROI zones for each camera view.

- **ROI Zone 1–5** – Enables or disables the ROI zone and sets its quality priority level (High, Medium, Low).
 - **Draw** – Opens the drawing tool to define the ROI zone area on the image.
 - **Clear** – Removes the defined ROI zone area.

Privacy Mask

The screenshot shows a configuration panel for 'View 2'. It contains five rows, each for a mask (Mask 1 to Mask 5). Each row has a toggle switch, a 'Draw' button, and a 'Clear' button. Mask 1's toggle is turned 'ON' (blue), while the others are 'OFF' (grey).

Mask	Toggle	Draw	Clear
Mask 1 :	ON	Draw	Clear
Mask 2 :	OFF	Draw	Clear
Mask 3 :	OFF	Draw	Clear
Mask 4 :	OFF	Draw	Clear
Mask 5 :	OFF	Draw	Clear

Privacy Mask – Configures privacy mask zones for each camera view.

View 1 / View 2 / View 3 / View 4 – Configures up to five privacy mask zones for each camera view.

- **Mask 1–5** – Enables or disables the privacy mask zone.
 - **(Toggle)** – Enables or disables the mask zone.
 - **Draw** – Opens the drawing tool to define the mask zone area on the image.
 - **Clear** – Removes the defined mask zone area.

OSD

The screenshot shows a web-based configuration interface for OSD settings. It has a dark grey header bar with the text 'General Settings'. Below the header, the interface is divided into two sections. The top section contains two settings: 'Camera Name' with a text input field containing 'Network Camera', and 'Text color' with a dropdown menu showing 'White'. The bottom section contains five settings: 'View' with a dropdown menu showing 'View 1', 'Font Border' with a toggle switch set to 'OFF', and three dropdown menus for 'Top Left', 'Top Right', and 'Bottom Left', all showing 'OFF'. The 'Bottom Right' setting is also a dropdown menu showing 'OFF'.

General Settings – Configures the on-screen display (OSD) settings for the camera.

- **Camera Name** – Sets the camera name displayed in the OSD.
 - **Text Color** – Sets the color of the OSD text (White, Black, Green, Yellow).
-
- **View** – Selects the camera view to configure OSD overlay positions for (View 1, View 2, View 3, View 4).
 - **Font Border** – Enables or disables a border around OSD text for improved readability.
 - **Top Left** – Selects the information displayed in the top-left corner of the image (OFF, Date/Time, Camera Name, Custom Text, Camera Name + Date/Time).
 - **Top Right** – Selects the information displayed in the top-right corner of the image (OFF, Date/Time, Camera Name, Custom Text, Camera Name + Date/Time).
 - **Bottom Left** – Selects the information displayed in the bottom-left corner of the image (OFF, Date/Time, Camera Name, Custom Text, Camera Name + Date/Time).
 - **Bottom Right** – Selects the information displayed in the bottom-right corner of the image (OFF, Date/Time, Camera Name, Custom Text, Camera Name + Date/Time).

Network

Basic

The screenshot displays the 'Network' configuration page under the 'Basic' tab. It is divided into three main sections: IPv4 Settings, System Settings, and IPv6 Settings. The IPv4 Settings section includes a DHCP toggle (ON), IP Address (172.30.43.46), Subnet Mask (255.255.248.0), Gateway (172.30.40.1), Primary DNS (208.67.222.222), and Secondary DNS (208.67.220.220). The System Settings section includes HTTP Port (80), HTTPS Port (443), and Hardware Address (c4:ff:84:a4:00:b9). The IPv6 Settings section includes an IPv6 toggle (OFF), IPv6 Auto toggle (OFF), IPv6 Auto Mode (Stateless), Link-Local, IPv6 Address, Address Prefix (64), Default Route, and DNS.

Section	Setting	Value
IPv4 Settings	DHCP	ON
	IP Address	172.30.43.46
	Subnet Mask	255.255.248.0
	Gateway	172.30.40.1
	Primary DNS	208.67.222.222
	Secondary DNS	208.67.220.220
System Settings	HTTP Port	80 (80, 1024~65535)
	HTTPS Port	443 (443, 1024~65535)
	Hardware Address	c4:ff:84:a4:00:b9
IPv6 Settings	IPv6	OFF
	IPv6 Auto	OFF
	IPv6 Auto Mode	Stateless
	Link-Local	
	IPv6 Address	
	Address Prefix	64 (0~127)
	Default Route	
	DNS	

IPv4 Settings – Configures the camera's IPv4 network settings.

- **DHCP** – Enables or disables automatic IP address assignment via DHCP.
- **IP Address** – Sets the camera's IPv4 address.
- **Subnet Mask** – Sets the subnet mask for the network.
- **Gateway** – Sets the default gateway address.
- **Primary DNS** – Sets the primary DNS server address.
- **Secondary DNS** – Sets the secondary DNS server address.

System Settings – Displays and configures system-level network settings.

- **HTTP Port** – Sets the HTTP port number (80, 1024~65535).
- **HTTPS Port** – Sets the HTTPS port number (443, 1024~65535).
- **Hardware Address** – Displays the camera's MAC address.

IPv6 Settings – Configures the camera's IPv6 network settings.

- **IPv6** – Enables or disables IPv6.
- **IPv6 Auto** – Enables or disables automatic IPv6 address configuration.

- **IPv6 Auto Mode** – Selects the IPv6 auto configuration mode (Stateless, Stateless DHCP, Stateful DHCP).
- **Link-Local** – Displays the link-local IPv6 address.
- **IPv6 Address** – Sets the static IPv6 address.
- **Address Prefix** – Sets the IPv6 address prefix length (0~127).
- **Default Route** – Sets the IPv6 default route address.
- **DNS** – Sets the IPv6 DNS server address.

SSL

SSL (Self-Signed Certificate) – Configures the SSL/HTTPS security mode for the camera.

SSL

Mode : ☒ Disabled ☐ Optional ☐ Required

Certificate

Certificate : No certificate has been installed.

Action : Install new Certificate

Self-Signed Certificate

Country Code :

Organization Name :

State/Province Name :

Organization Unit Name :

City Name :

Email Address :

Common Name :

Save Cancel

- **Mode** – Selects the SSL mode for camera connections.
 - **Disabled** – SSL is not used.
 - **Optional** – SSL is available but not required.
 - **Required** – SSL is required for all connections.

Certificate – Displays the current SSL certificate status and configures a self-signed certificate.

- **Certificate** – Displays the current SSL certificate installation status.
- **Action** – Initiates installation of a new SSL certificate.
 - **Install new Certificate** – Installs a new SSL certificate on the camera.

Self-Signed Certificate – Configures the details for a self-signed SSL certificate.

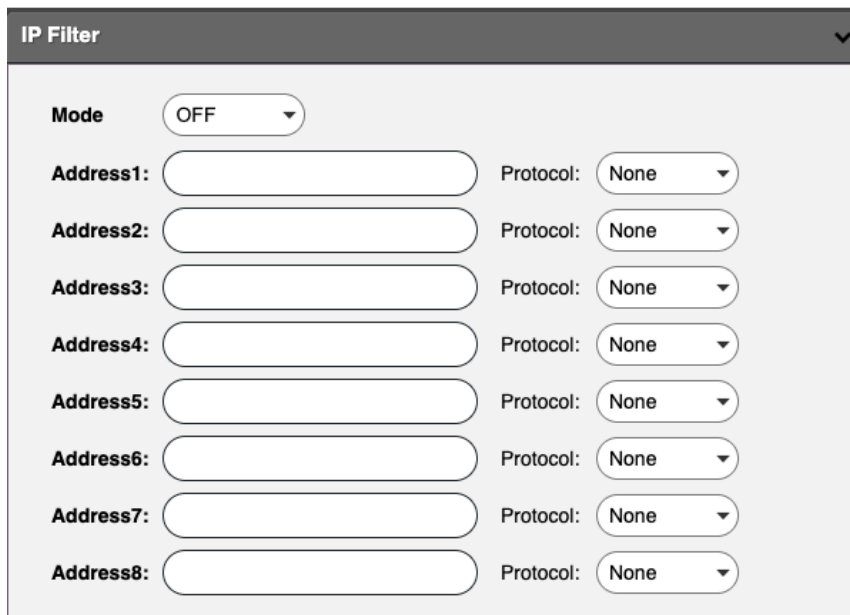
- **Country Code** – Sets the two-letter country code for the certificate.
- **Organization Name** – Sets the organization name for the certificate.
- **State/Province Name** – Sets the state or province name for the certificate.
- **Organization Unit Name** – Sets the organizational unit name for the certificate.
- **City Name** – Sets the city name for the certificate.
- **Email Address** – Sets the email address associated with the certificate.
- **Common Name** – Sets the common name (e.g. hostname) for the certificate.
- **Save** – Applies the certificate settings.
- **Cancel** – Discards changes to the certificate settings.

Upload Certificate – Uploads an existing SSL certificate and private key to the camera.

The screenshot shows a web interface titled "Certificate" with a dropdown arrow. Below the title, it says "Certificate : No certificate has been installed." There is a horizontal line. Under "Action :", there is a button labeled "Install new Certificate". Below that, it says "Upload Certificate". There are two rows of controls: "Client private key :" with "Choose a file" and "Upload" buttons, and "Client Certificate :" with "Choose a file" and "Upload" buttons. At the bottom, there is a "Cancel" button.

- **Client Private Key** – Selects and uploads the client private key file.
 - **Choose a file** – Opens a file browser to select the private key file.
 - **Upload** – Uploads the selected private key file to the camera.
- **Client Certificate** – Selects and uploads the client certificate file.
 - **Choose a file** – Opens a file browser to select the certificate file.
 - **Upload** – Uploads the selected certificate file to the camera.
- **Cancel** – Discards the upload and returns to the Certificate settings.

IP Filter



IP Filter

Mode: OFF

Address1: Protocol: None

Address2: Protocol: None

Address3: Protocol: None

Address4: Protocol: None

Address5: Protocol: None

Address6: Protocol: None

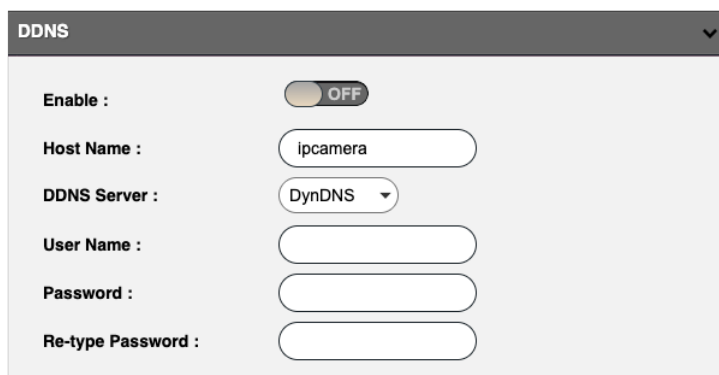
Address7: Protocol: None

Address8: Protocol: None

IP Filter – Configures IP address filtering to control network access to the camera.

- **Mode** – Selects the IP filter mode (Allow, Deny, OFF).
- **Address1–8** – Sets the IP address to allow or deny access to the camera.
 - **Protocol** – Selects the network protocol to apply to the filtered address (None, TCP, UDP).

DDNS



DDNS

Enable : OFF

Host Name :

DDNS Server : DynDNS

User Name :

Password :

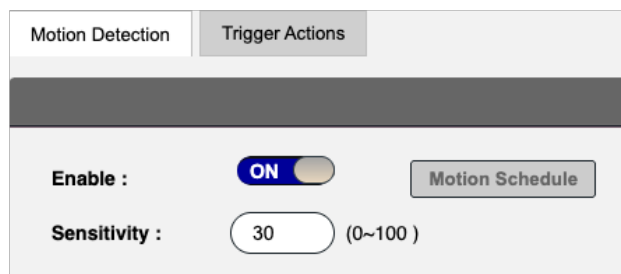
Re-type Password :

DDNS – Configures Dynamic DNS settings for the camera.

- **Enable** – Enables or disables DDNS.
- **Host Name** – Sets the hostname to register with the DDNS service (e.g., ipcamera).
- **DDNS Server** – Selects the DDNS service provider (DynDNS, No-IP).
- **User Name** – Sets the DDNS account username.
- **Password** – Sets the DDNS account password.
- **Re-type Password** – Confirms the DDNS account password.

Event

Motion Detection

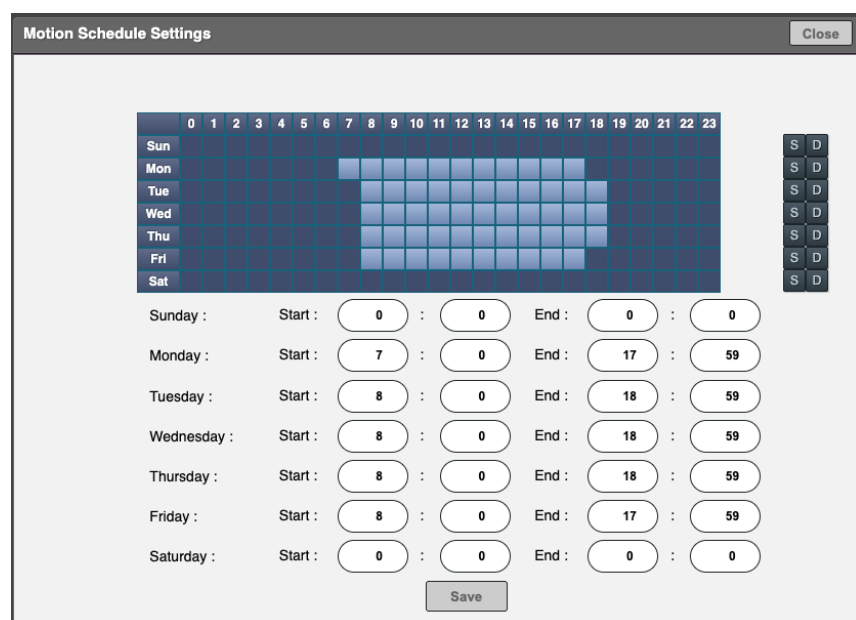


The Motion Detection configuration window has two tabs: "Motion Detection" (active) and "Trigger Actions". Below the tabs, there is a dark grey header bar. The main area contains an "Enable" toggle switch set to "ON" and a "Motion Schedule" button. Below these, the "Sensitivity" is set to "30" with a range of "(0~100)".

Motion Detection – Displays motion detection configuration settings.

- **Enable** – Enables or disables motion detection.
- **Sensitivity** – Sets the motion detection sensitivity level (0~100).
- **Motion Schedule** – Opens the motion detection schedule configuration.

Motion Schedule Settings – Configures the days and times during which motion detection is active.



The Motion Schedule Settings window has a "Close" button in the top right. It features a "Schedule Grid" with days of the week (Sun-Sat) on the y-axis and hours (0-23) on the x-axis. The grid shows active periods for Monday through Friday from 7:00 to 17:59, and for Saturday from 8:00 to 17:59. To the right of the grid is a legend with "S" (Select) and "D" (Clear) buttons. Below the grid, there are input fields for "Start" and "End" times for each day, and a "Save" button at the bottom.

Day	Start (H:M)	End (H:M)
Sunday	00:00	00:00
Monday	07:00	17:59
Tuesday	08:00	18:59
Wednesday	08:00	18:59
Thursday	08:00	18:59
Friday	08:00	17:59
Saturday	00:00	00:00

Schedule Grid – Displays a visual representation of the motion detection schedule by day and hour. Click cells to enable or disable motion detection for specific hours.

- **S** – Selects all hours for the corresponding day.
- **D** – Clears all hours for the corresponding day.

Sunday-Saturday – Sets the motion detection start and end times for each day of the week.

- **Start** – Sets the hour and minute at which motion detection becomes active.

- **End** – Sets the hour and minute at which motion detection becomes inactive.

Save – Applies the motion schedule settings.

Close – Closes the Motion Schedule Settings window.

Select Camera View and Edit Motion Detection Zone – Selects a camera view to configure motion detection zones for.

View 1 / View 2 / View 3 / View 4 – Configures up to five motion detection zones for each camera view.

- **Zone1-5** – Defines a motion detection zone on the selected camera view.
 - **Draw** – Opens the drawing tool to define the motion detection zone area on the image.
 - **Clear** – Removes the defined motion detection zone area.

Trigger Actions – Configures the actions triggered when motion is detected.

Trigger Actions – Configures the actions triggered when motion is detected.

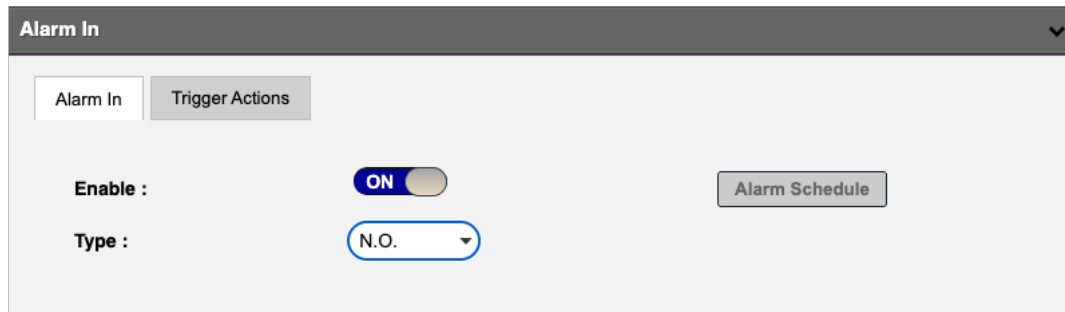
Alarm Output – Selects the alarm output to activate when motion is detected.

- **A → 1** – Triggers alarm output A to relay 1 when motion is detected.

Storage – Configures SD card storage actions triggered when motion is detected.

- **Record video to SD Card** – Records video to the SD card when motion is detected.
- **Save Snapshot to SD Card** – Saves a snapshot image to the SD card when motion is detected.

Alarm In

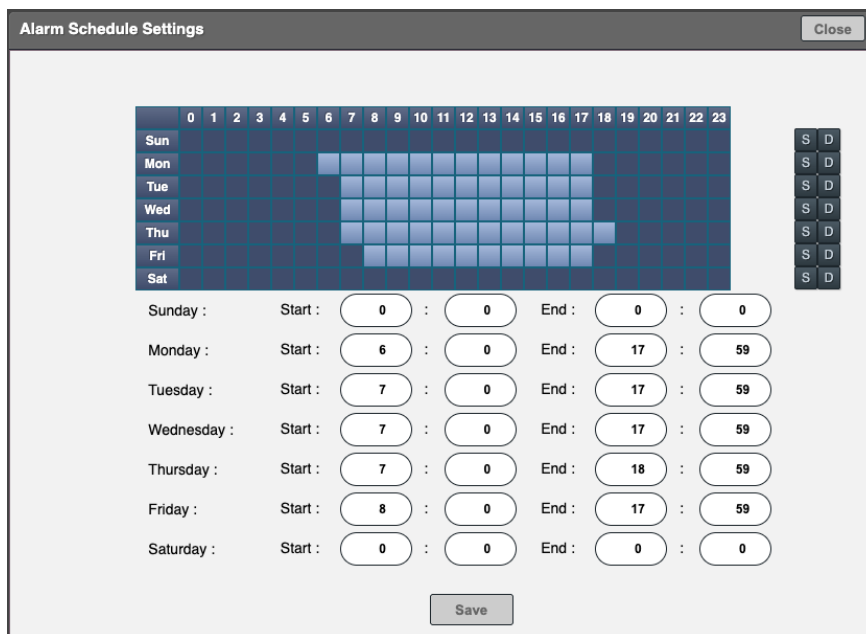


The 'Alarm In' configuration window has a title bar with a dropdown arrow. It contains two tabs: 'Alarm In' (selected) and 'Trigger Actions'. Under the 'Alarm In' tab, there are two settings: 'Enable' with a toggle switch set to 'ON', and 'Type' with a dropdown menu set to 'N.O.'. To the right of these settings is a button labeled 'Alarm Schedule'.

Alarm In – Configures alarm input settings and trigger actions.

- **Enable** – Enables or disables the alarm input.
- **Type** – Selects the alarm input contact type (N.C. for Normally Closed, N.O. for Normally Open).
- **Alarm Schedule** – Opens the alarm input schedule configuration.

Alarm Schedule Settings – Configures the days and times during which the alarm input is active.



The 'Alarm Schedule Settings' window has a title bar with a 'Close' button. It features a 'Schedule Grid' and a list of time settings for each day of the week. The grid has columns for hours (0-23) and rows for days (Sun-Sat). Cells are highlighted in blue to indicate active periods. To the right of the grid is a legend with 'S' and 'D' buttons. Below the grid, each day has a 'Start' and 'End' time setting with hour and minute input fields. A 'Save' button is at the bottom.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Day	Start (H:M)	End (H:M)
Sunday	00:00	00:00
Monday	06:00	17:59
Tuesday	07:00	17:59
Wednesday	07:00	17:59
Thursday	07:00	18:59
Friday	08:00	17:59
Saturday	00:00	00:00

Schedule Grid – Displays a visual representation of the motion detection schedule by day and hour. Click cells to enable or disable motion detection for specific hours.

- **S** – Selects all hours for the corresponding day.
- **D** – Clears all hours for the corresponding day.

Sunday-Saturday – Sets the motion detection start and end times for each day of the week.

- **Start** – Sets the hour and minute at which motion detection becomes active.

End – Sets the hour and minute at which motion detection becomes inactive.

Trigger Actions – Configures the actions triggered when an alarm input is detected.

The screenshot shows a web interface for configuring an alarm input. At the top is a dark grey header bar with the text "Alarm In" and a downward-pointing chevron. Below the header, there are two tabs: "Alarm In" and "Trigger Actions". The "Trigger Actions" tab is selected and highlighted with a blue border. Under this tab, there are two main sections: "Alarm Output" and "Storage". The "Alarm Output" section contains a single checkbox labeled "A → 1". The "Storage" section contains two checkboxes: "Record video to SD Card" and "Save Snapshot to SD Card".

Alarm Output – Selects the alarm output to activate when an alarm input is detected.

- **A → 1** – Triggers alarm output A to relay 1 when an alarm input is detected.

Storage – Configures SD card storage actions triggered when an alarm input is detected.

- **Record video to SD Card** – Records video to the SD card when an alarm input is detected.
- **Save Snapshot to SD Card** – Saves a snapshot image to the SD card when an alarm input is detected.

Alarm Out

The screenshot shows a web interface for configuring an alarm output. At the top is a dark grey header bar with the text "Alarm Out" and a downward-pointing chevron. Below the header, there are two settings: "Type :" and "Off Time :". The "Type :" setting has a dropdown menu with "N.O." selected. The "Off Time :" setting has a numeric input field with "0" and a range indicator "(0~30s)".

Alarm Out – Configures the alarm output relay settings.

- **Type** – Selects the alarm output contact type (N.C. for Normally Closed, N.O. for Normally Open).
- **Off Time** – Sets the duration before the alarm output automatically deactivates (0~30s).

Storage Settings

Storage

SD Information

Available :

0 MBytes

Format SD Card

Usage :

0% (0 / 0 MBytes)

Status :

not_mounted

Overwrite :

ON

Record Type :

Video

Alarm Detection Settings

Pre-event Record :

3

(1~5) Seconds

FileName Prefix :

Alarm_Rec

Post-event Record :

5

(5~100) Seconds

Server Path :

videoAlarm

Motion Detection Settings

Pre-event Record :

3

(1~5) Seconds

FileName Prefix :

Motion_Rec

Post-event Record :

5

(5~100) Seconds

Server Path :

videoMotion

SD Information – Displays SD card status and configures storage settings.

- **Available** – Displays the available SD card storage capacity in MBytes.
- **Format SD Card** – Formats the installed SD card.
- **Usage** – Displays the current SD card storage usage as a percentage and in MBytes.
- **Status** – Displays the current SD card mount status.
- **Overwrite** – Enables or disables automatic overwrite of the oldest recordings when the SD card is full.
- **Record Type** – Selects the type of content recorded to the SD card (Snapshot, Video).

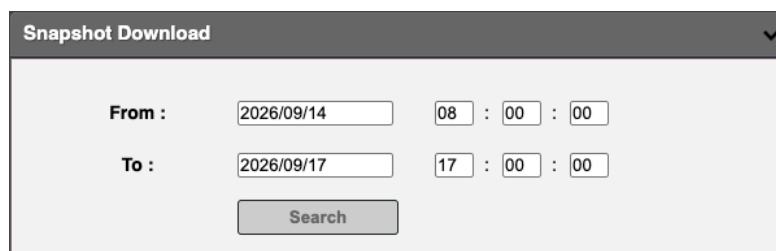
Alarm Detection Settings – Configures SD card recording settings for alarm-triggered events.

- **Pre-event Record** – Sets the number of seconds to record before an alarm event (1~5 seconds).
 - **FileName Prefix** – Sets the filename prefix for alarm event recordings.
 - **Post-event Record** – Sets the number of seconds to record after an alarm event (5~100 seconds).
 - **Server Path** – Sets the server directory path for alarm event recordings.
-

Motion Detection Settings – Configures SD card recording settings for motion-triggered events.

- **Pre-event Record** – Sets the number of seconds to record before a motion event (1~5 seconds).
- **FileName Prefix** – Sets the filename prefix for motion event recordings.
- **Post-event Record** – Sets the number of seconds to record after a motion event (5~100 seconds).
- **Server Path** – Sets the server directory path for motion event recordings.

Snapshot Download



Snapshot Download

From : 2026/09/14 08 : 00 : 00

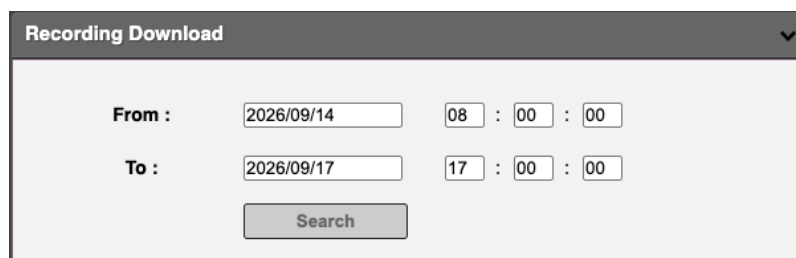
To : 2026/09/17 17 : 00 : 00

Search

Snapshot Download – Searches for and downloads snapshots stored on the SD card within a specified date and time range.

- **From** – Sets the start date and time for the snapshot search.
- **To** – Sets the end date and time for the snapshot search.
- **Search** – Searches for snapshots stored on the SD card within the specified date and time range.

Recording Download



Recording Download

From : 2026/09/14 08 : 00 : 00

To : 2026/09/17 17 : 00 : 00

Search

Recording Download – Searches for and downloads video recordings stored on the SD card within a specified date and time range.

- **From** – Sets the start date and time for the recording search.
- **To** – Sets the end date and time for the recording search.
- **Search** – Searches for video recordings stored on the SD card within the specified date and time range.

System

Date/Time

The screenshot shows the 'Date/Time' configuration page. It has three main sections: 'Display Format Setting', 'Time Zone Setting', and 'Time Settings'.
1. **Display Format Setting**: Contains two dropdown menus. 'Display Format' is set to '9/14/2026 13:00:07'. 'Date & Time Format' is set to '24HR'.
2. **Time Zone Setting**: Contains two dropdown menus. 'Time Zone' is set to 'America' with a sub-selection of 'Los_Angeles'. 'ONVIF Time Zone' is set to 'PacificStandardTime8DaylightTime, N'.
3. **Time Settings**: Contains 'Sync Mode' with three radio button options: 'None', 'DHCP', and 'NTP Server'. 'NTP Server' is selected, and the address '2.cctv.pool.ntp.org' is entered. Below this is a 'Manually set' section with date and time pickers showing '2025 / 06 / 20 7 : 19 : 37' and a 'Synchronize with computer time' button.

Display Format Setting – Configures how the date and time are displayed on the camera.

- **Display Format** – Selects the date and time display format.
- **Date & Time Format** – Selects the time format.

Time Zone Setting – Configures the camera's time zone.

- **Time Zone** – Selects the camera's time zone by region and city.
- **ONVIF Time Zone** – Displays the ONVIF-formatted time zone string.

Time Settings – Configures the camera's time synchronization method.

- **Sync Mode** – Selects the time synchronization mode.
 - **None** – No time synchronization is used.
 - **DHCP** – Synchronizes the camera time using the DHCP server.
 - **NTP Server** – Synchronizes the camera time using a specified NTP server address.
- **Manually set** – Sets the camera date and time manually using the specified year, month, day, hour, minute, and second values.

- **Synchronize with computer time** – Sets the camera date and time to match the current computer time.

Maintenance

The screenshot displays a web interface for camera maintenance, organized into five main sections:

- System Information:** Displays camera details:
 - Firmware Version : OEC40.0018
 - MCU Version : F00E
 - Model Name : OE-C9914M20-S-1
 - Serial Number : TSCFC1007766
 - Mac Address : c4:ff:84:a4:00:b9
- Firmware Update:** Includes a file selection area with a 'Browse' button and an 'Update' button. Below this are four action buttons:
 - Reboot Camera:** During reboot camera connection will be lost.
 - Partial Reset:** Reset all the camera parameters to the default settings except IP address.
 - Factory Reset:** Reset all of the camera parameters to default.
 - Download Log File**
- Export Configuration File:** Contains a button labeled 'Export' to download a full backup file of camera settings.
- Import Configuration File:** Includes a 'Choose a file' button, an 'Import' button, and a note: 'NOTE: Device will reboot during the import process.'
- Power Detection:** Features radio buttons for 'Auto' (selected) and 'Manual', followed by a 'Save' button.

System Information – Displays camera system information.

- **Firmware Version** – Displays the current firmware version.
- **MCU Version** – Displays the current MCU firmware version.
- **Model Name** – Displays the camera model name.
- **Serial Number** – Displays the camera serial number.
- **Mac Address** – Displays the camera MAC address.

Firmware Update – Updates the camera firmware.

- **File Name** – Selects the firmware file to upload.
 - **Browse** – Opens a file browser to select the firmware update file.
- **Update** – Uploads and installs the selected firmware file.
- **Reboot Camera** – Reboots the camera. Camera connection will be lost during reboot.
- **Partial Reset** – Resets all camera parameters to default settings, except the IP address.
- **Factory Reset** – Resets all camera parameters to factory default settings.
- **Download Log File** – Downloads the camera system log file.

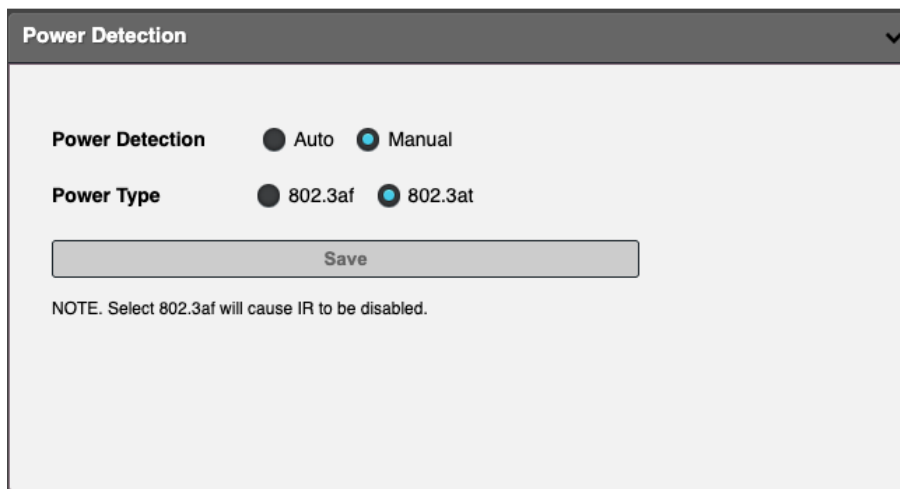
Export Configuration File – Downloads a full backup of the camera configuration settings.

- **Export** – Downloads the camera configuration file.

Import Configuration File – Imports a previously exported camera configuration file.

- **File Name** – Selects the configuration file to import.
 - **Choose a file** – Opens a file browser to select the configuration file.
- **Import** – Uploads and applies the selected configuration file. The camera will reboot during the import process.

Power Detection – Configures the camera power detection mode.



The screenshot shows a web interface titled "Power Detection" with a dropdown arrow in the top right corner. Inside the panel, there are two radio button groups. The first group, labeled "Power Detection", has "Auto" selected (indicated by a black dot) and "Manual" (indicated by a blue dot). The second group, labeled "Power Type", has "802.3af" selected (indicated by a black dot) and "802.3at" (indicated by a blue dot). Below these options is a grey "Save" button. At the bottom of the panel, a note reads: "NOTE. Select 802.3af will cause IR to be disabled."

- **Power Detection** – Selects the power detection mode.
 - **Auto** – Automatically detects the power source.
 - **Manual** – Manually configures the power detection setting.

Power Type – Selects the PoE standard when Manual mode is selected.

- **802.3af** – Sets the power type to 802.3af. Note: Selecting 802.3af will disable IR.
- **802.3at** – Sets the power type to 802.3at.

Save – Applies the power detection settings.

User Management

The screenshot displays two side-by-side panels from a web application. The left panel, titled 'Admin Setting', contains fields for 'Admin' (username 'admin'), 'Password', and 'Re-type Password', each with a masked input field. Below these fields is a note: 'Passwords must be 9-32 characters and include at least two of the following: one number, one letter, one special character (!#\$%&*)'. The right panel, titled 'User List', shows a list of users with 'User1' selected. Below the list are 'Cancel' and 'Del User' buttons. At the bottom of the right panel is an 'Add New User' section with radio buttons for 'Access Level' (selected 'Admins', unselected 'Views'), and input fields for 'Username', 'Password', and 'Re-type Password'.

Admin Setting – Configures the administrator account password.

- **Admin** – Displays the administrator username.
- **Password** – Sets the administrator account password.
- **Re-type Password** – Confirms the administrator account password.

Note: Passwords must be 9–32 characters and include at least two of the following: one number, one letter, one special character (!#\$%&*).

User List – Displays and manages existing camera user accounts.

- **User List** – Displays the list of current user accounts.
- **Cancel** – Deselects the selected user account.
- **Del User** – Deletes the selected user account.

Add New User – Creates a new camera user account.

- **Access Level** – Selects the access level for the new user account.
 - **Admins** – Grants full administrative access.
 - **Views** – Grants view-only access.
- **Username** – Sets the username for the new user account.
- **Password** – Sets the password for the new user account.
- **Re-type Password** – Confirms the password for the new user account.

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