ENFORCER®

IP Fixed Cameras

Web Manual

Model#	Lens	Resolution	Voltage	Style	Color
EV-N1506-2W4Q	2.8mm	5MP, 1440p	12VDC	Bullet	White
EV-N2506-2W4Q	2.8mm	5MP, 1440p	12VDC	Turret	White

Table of Contents:

Programmable Features:

- **Exposure**
  Adjust the shutter speed, automatic gain control (AGC), and defog settings

- **Digital Wide Dynamic Range (D-WDR)**
  Provide clear images even under circumstances where backlight illumination can vary

- **Back Light Compensation (BLC)**
  Adjust the exposure to properly display the subject in front of bright light sources

- **White Balance**
  Adjust the color temperature/image color

- **Day & Night**
  Adjust the level of ambient light that triggers the camera to switch between color and B/W modes

- **Digital Noise Reduction (DNR)**
  Adjust for less interference on the screen in an area with low illumination

D-WDR OFF   **D-WDR ON**

BLC OFF   **BLC ON**

DNR OFF   **DNR ON**

NOTE: All screen images in this manual are simulated.

Accessing the IP Camera Interface:

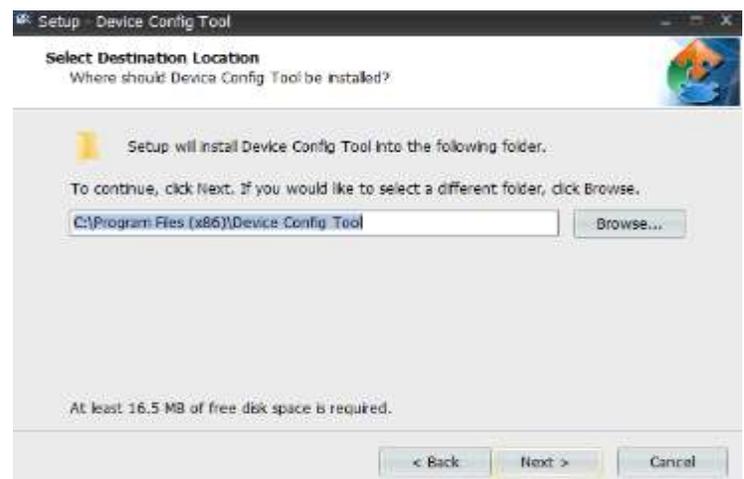**Install *Device Config Tool* using included CD:**
Select your software:

For Mac Installation:
- CDROM\software for Mac\Device Search\

For PC Installation:
- CDROM\software for PC (except MAC)

1. Click next
2. Choose install location, click next
3. Review your settings and click Install
4. Click Finish (Click the checkbox to the Launch *Device Config Tool*.)

Device Search:

- **Search –** Click to search for camera (IP address of camera will be revealed. Use to connect to camera)
- **User Info –** Displays camera credentials
- **Device Info –** Display camera IP settings
- **Filtration –** Filter search results by IP, Media Port, or Channel
- **Open –** Browse for firmware file
- **Username –** Enter username
- **Password –** Enter password

Device Search – Upgrade:

Upgrade the camera using firmware file.

1. Click the camera listed
2. Click upgrade
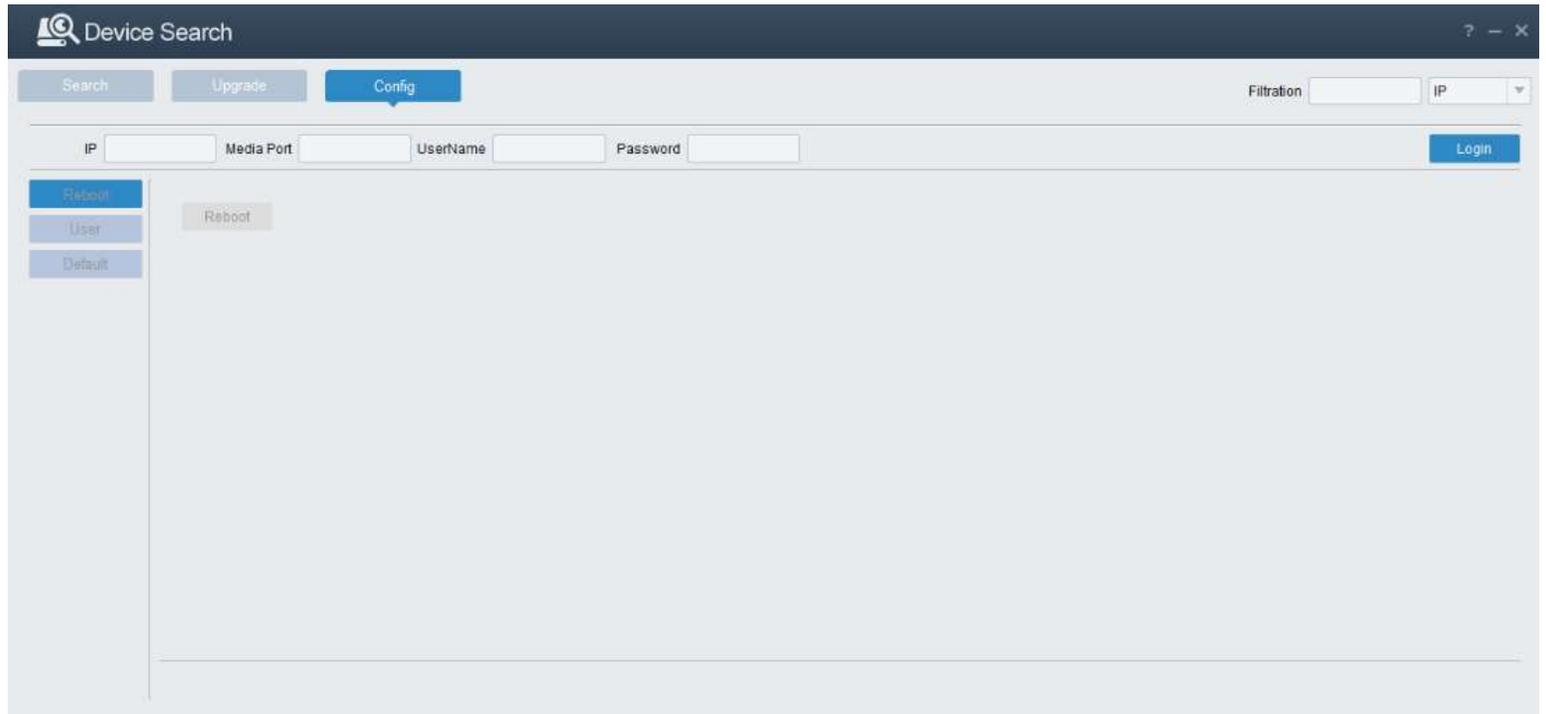
Device Search (Continued):

Device Search – Configuration:

The Device Configuration provides access to the Record and Record Snapshot settings:

- **IP –** Enter the camera's IP address
- **Media Port –** Enter the media port
- **Username –** Enter username
- **Password –** Enter password
- **Login –** Login

Connect to Camera:

Enter the camera's IP address into the web address of your internet Browser:

- 192.168.1.168 (Default) using Internet Explorer

NOTE: Web Interface designed for Internet Explorer. May not work correctly on other browsers.

Connect to Camera (Continued):

If this is the first-time accessing camera, you will need to install the following plugin.

You haven't installed the plugin or it is not the latest version.
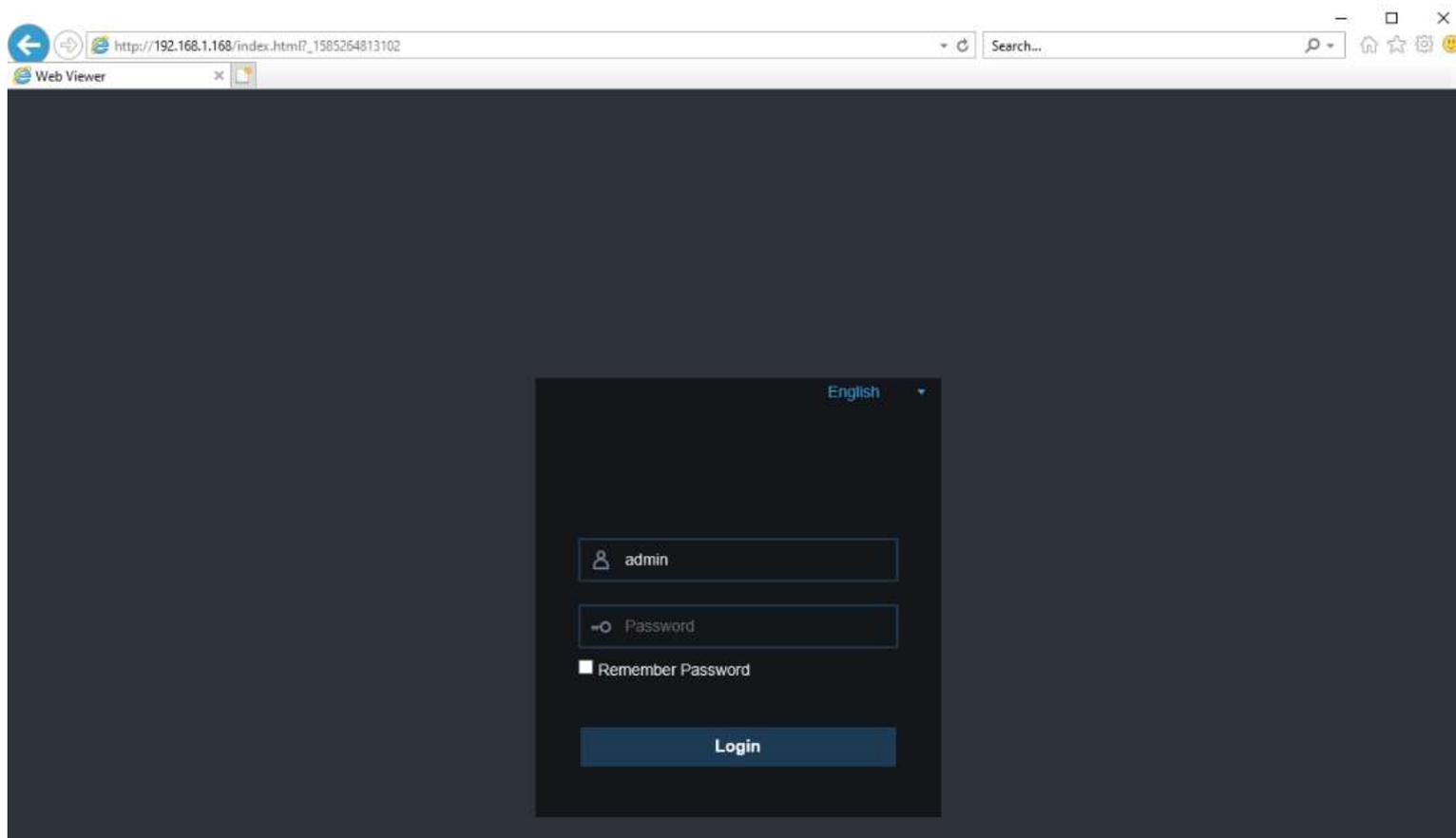
Please click download to download the latest plugin.

Please close browser before plugin installation!!!

Do you want to run or save **SurveillancePlugin.exe** (2.91 MB) from **192.168.1.171**?

This type of file could harm your computer.   Run   Save ▼   Cancel

Login Screen:

- Username: admin
- Password: Set password at initial login (to reset password, press and hold reset button)

NOTE: Reset button available on select cameras

http://192.168.1.168/index.html?_1585264813102

Web Viewer

English ▼

admin

Password

Remember Password

Login

Live:

- **Mainstream –** Displays screen at highest resolution
- **Sub Stream –** Displays screen at lower resolution
- **Mobile Stream –** Displays screen at lowest resolution
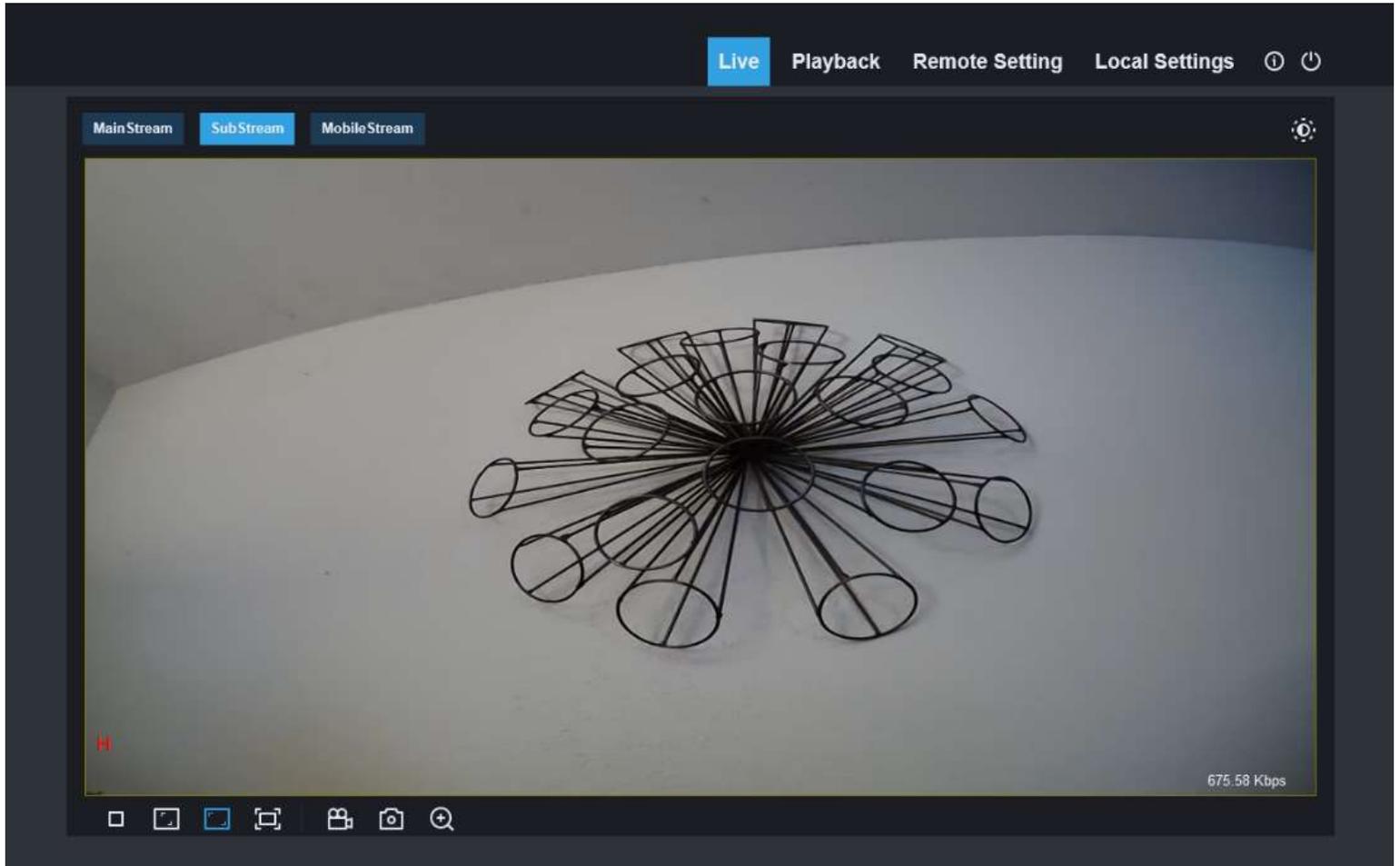
Screen Icons:

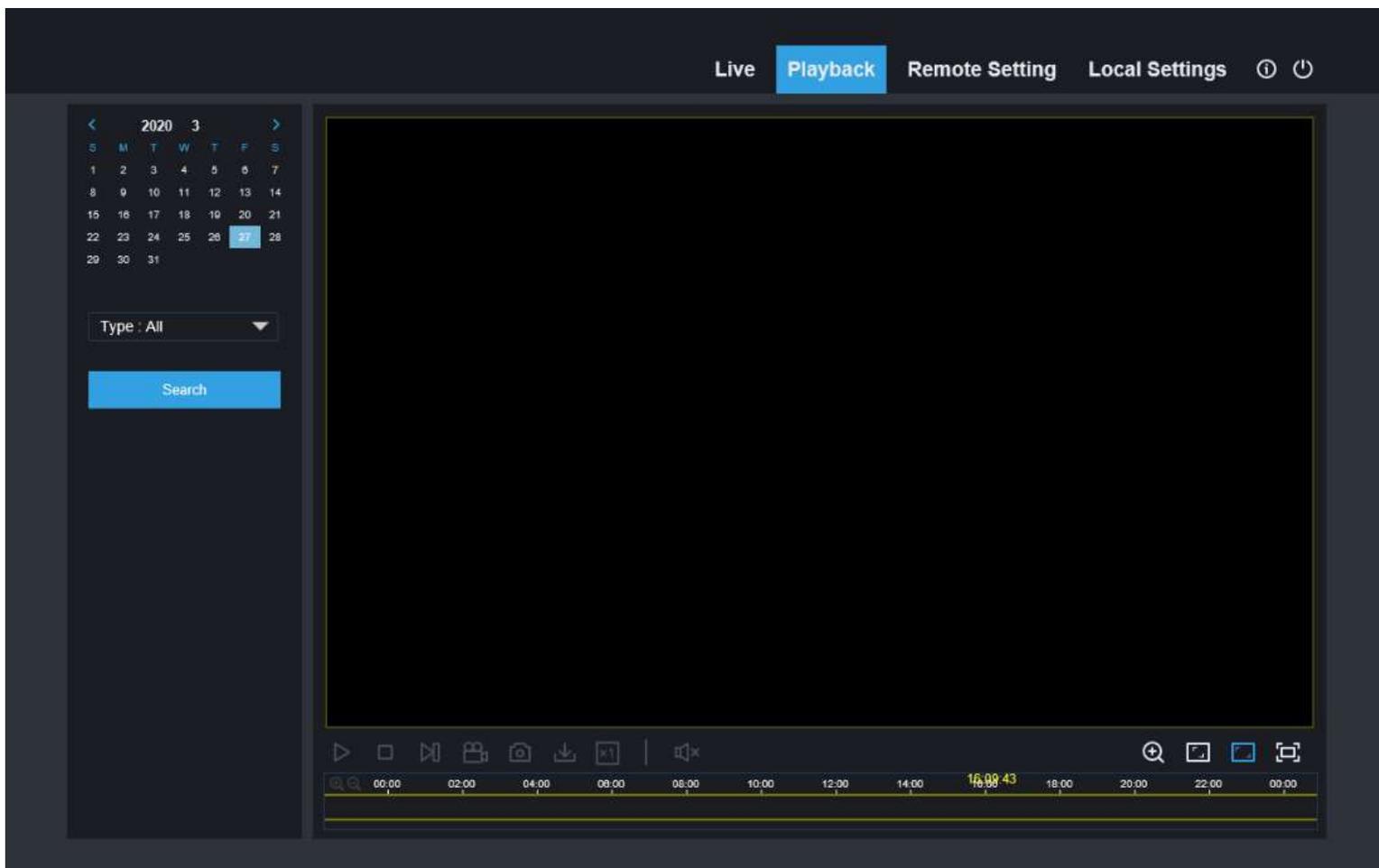|				
Stop displaying	Displays screen using original proportions	Stretches display to cover more of the open window	Fullscreen	Record (local)
Snapshot (local)	Digital Zoom	Configure color settings	Displays information of plugin and web version	Log out

Color Adjustment:

- **Hue –** Adjust hue
- **Bright –** Adjust brightness
- **Contrast –** Adjust contrast
- **Saturation –** Adjust saturation
- **Sharpness –** Adjust sharpness
- **Default –** Reset settings back to default
- **Refresh –** Reloads initial values
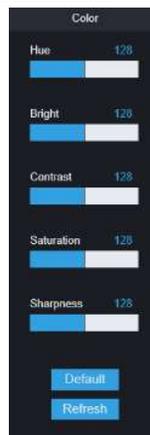
Playback:

- **Date –** Select date to search for recorded videos
- **Type –** Select the type of video or alarm
- **Search –** Click to search

Screen Icons:

Play	Stop	Forward by one frame	Record	Snapshot	Download
Viewing speed	Audio	Digital Zoom	Displays screen using original proportions	Stretches display to cover more of the open window	Fullscreen

Remote Setting – Channel – Live:

- **Name –** Enter name for camera
- **Flicker Control –** Select between 60Hz and 50Hz (United States uses 60Hz, Europe uses 50Hz by default)
- **Show Name –** Select to display camera name
- **Show Time –** Select to display camera time
- **Refresh –** Reloads initial values
- **Save –** Click to save changes

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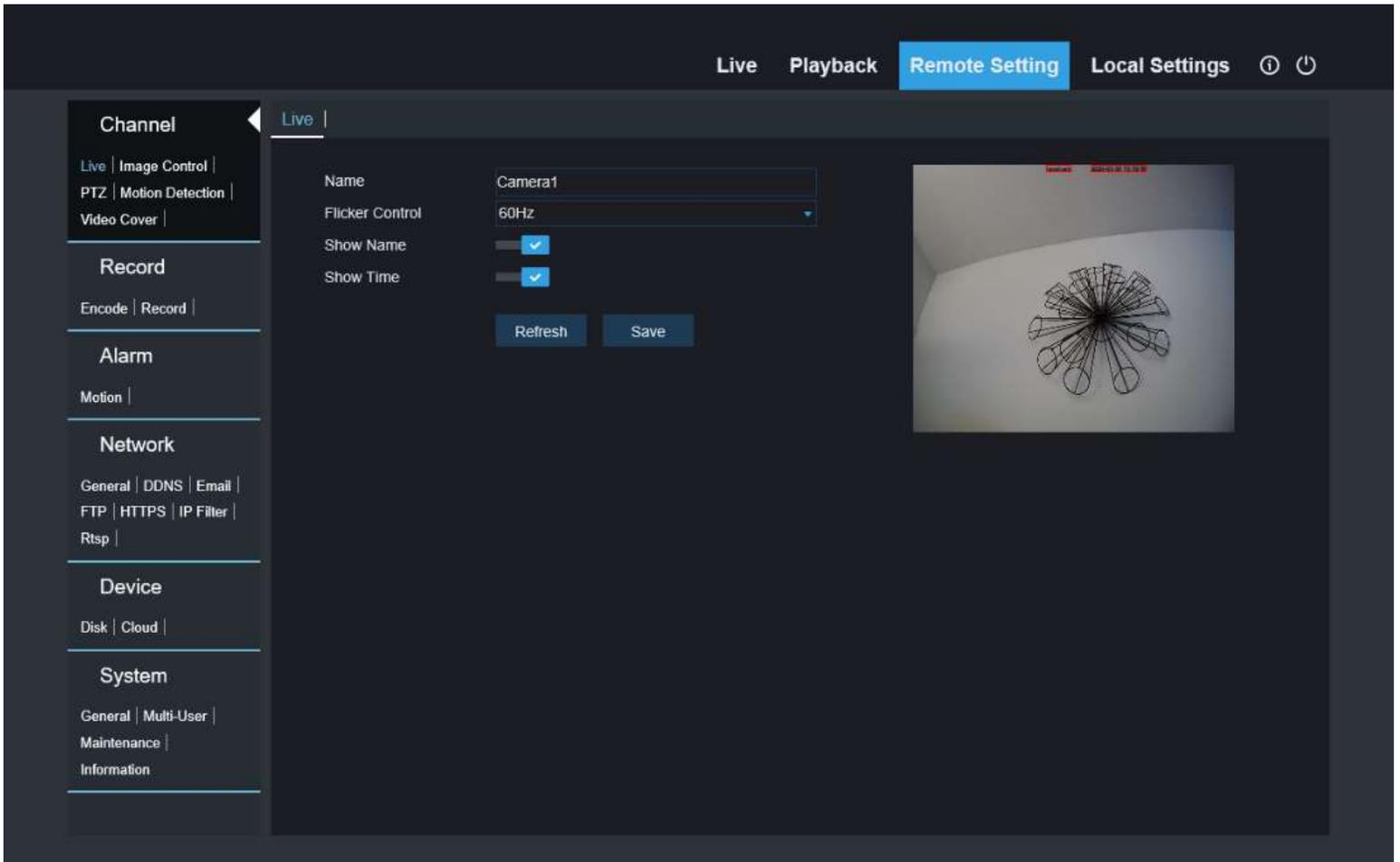
Remote Setting – Channel – Image Control:

- **R-CUT Mode –** Select day and night settings
- **GPIO Auto –** Automatically switches to B/W after IR Cut Delay time expires
- **Color Mode –** Stays in color
- **B/W Mode –** Stays in B/W
- **Schedule B/W –** Set the time of day to switch between b/w and color
- **IR Cut Delay –** Set the IR cut delay
- **IR-LED –** Select how to turn LEDs On/Off (Auto, On, Off)
- **Lens Flip –** Vertical flip
- **Angle Flip –** Horizontal flip
- **Angle Rotation –** Rotate screen 180°
- **Back Light –** Turn on/off backlight compensation
- **3D Noise Reduction –** Select to turn enable/disable 3DNR (Disable, Auto, Manual)
- **White Balance –** Select to control white balance (Auto, Manual)
- **Shutter –** Select to control shutter (Auto, Manual)
- **Time Exposure (max) –** Select shutter speed (1/5~1/20000, flickerless)
- **Defog Mode –** Select to control defog mode (Disable, Auto, Manual)
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
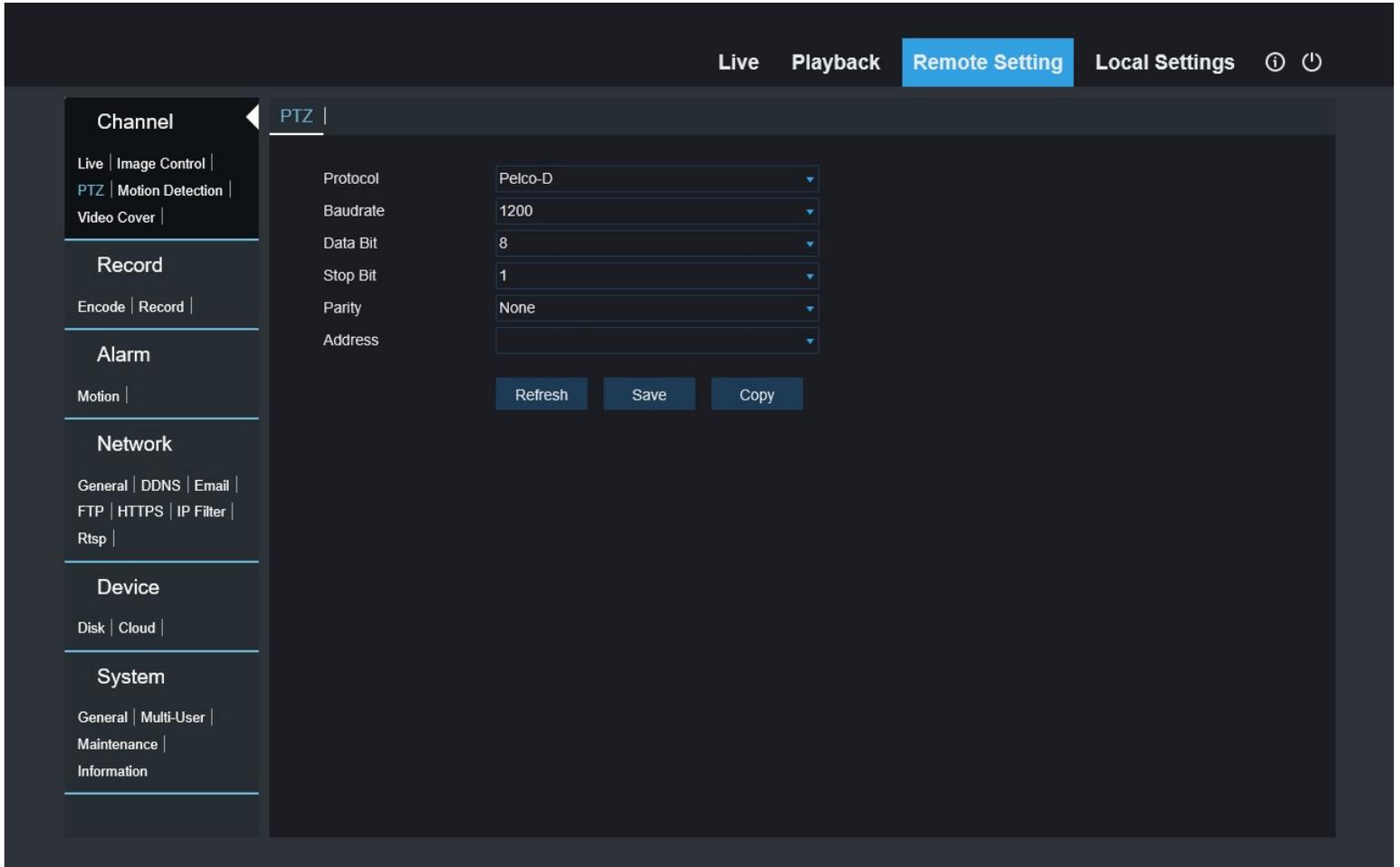- **Default –** Restore factory default

Remote Setting – Channel – PTZ:

- **Protoco**l – Select protocol (Pelco P, Pelco D)
- **Baud Rate –** Select baud rate (1200, 2400, 4800, 9600)
- **Data Bit –** Set Data Bit (5.6,7,8)
- **Stop Bit –** Set Stop Bit (1, 2)
- **Parity –** Set parity (None, Odd, Even, Mark, Space)

- **Address –** Set the last octet IP address
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
- **Copy –** Copies configuration to another channel

	Live	Playback	Remote Setting	Local Settings	

Channel

Live | Image Control |
PTZ | Motion Detection |
Video Cover |

Record

Encode | Record |

Alarm

Motion |

Network

General | DDNS | Email |
FTP | HTTPS | IP Filter |
Rtsp |

Device

Disk | Cloud |

System

General | Multi-User |
Maintenance |
Information

PTZ |

Protocol	Pelco-D
Baudrate	1200
Data Bit	8
Stop Bit	1
Parity	None
Address	

Refresh   Save   Copy

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Remote Setting – Channel – Motion Detection:

- **Enable –** Enable/disable motion detection
- **Sensitivity –** Set sensitivity (1~8)
- **Clear –** Clears area
- **All –** Sets the entire area for motion sensing
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
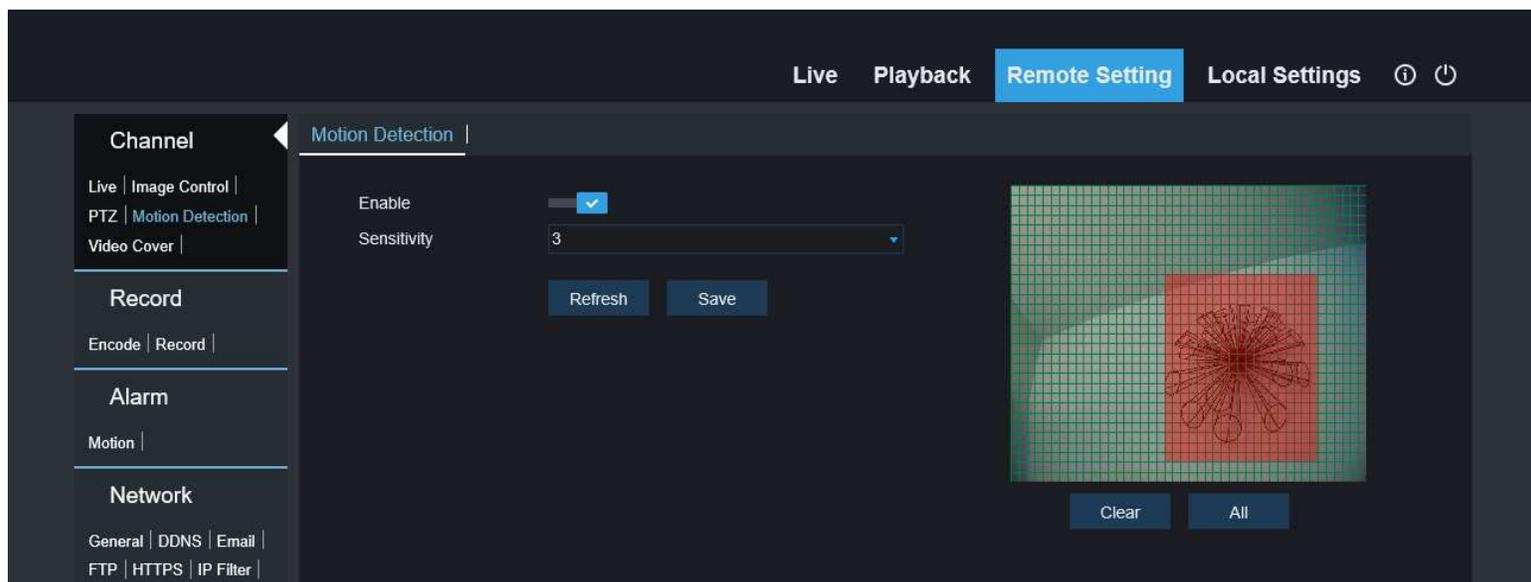
## Remote Setting – Channel – Video Cover:

- **Privacy Zone –** Select to enable/disable privacy zone (zone selected will be blacked out of video)
- **Delete –** Remove selected privacy zone
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
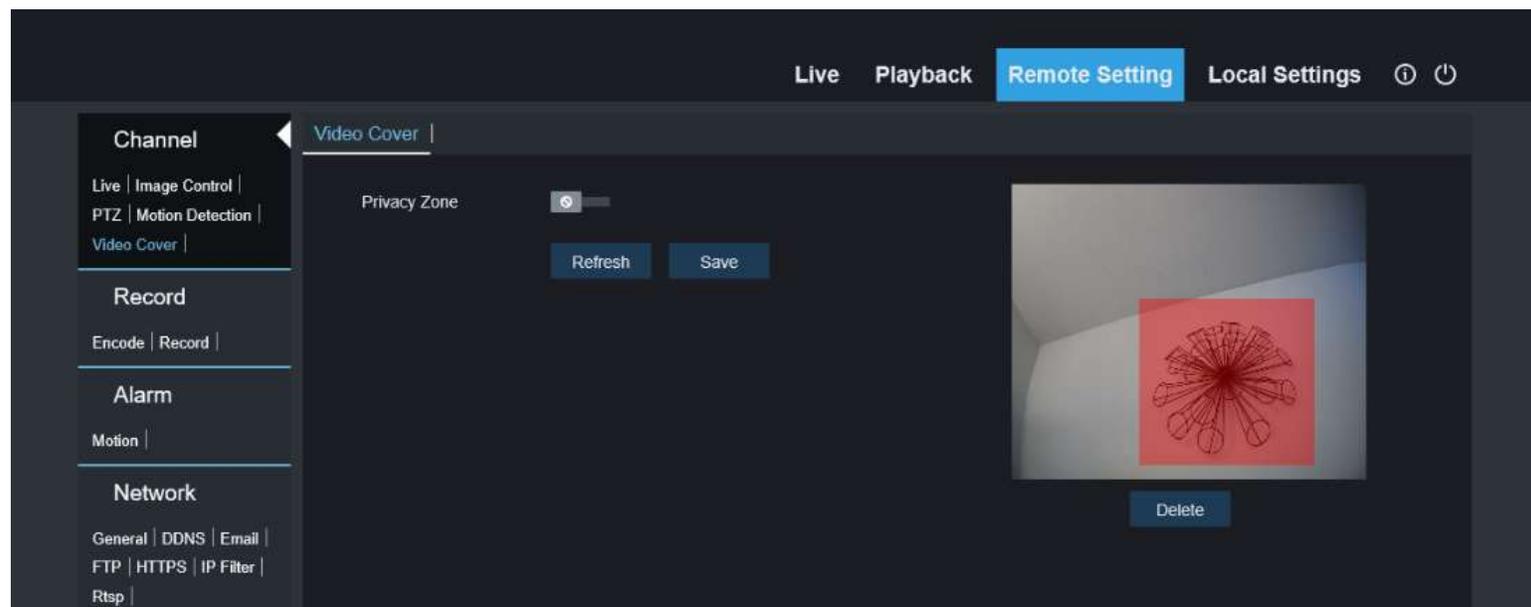
Remote Setting – Record – Encode:

Set the values below for MainStream, SubStream, and MobileStream

- **Resolution –** Set camera resolution
- **FPS –** Set frames per second (1~20)
- **Video Code Type –** Select compression (H.264, H.265)
- **Video Code Level –** Main profile selected on Mainstream
- **Bitrate Control –** Select constant bitrate or variable bitrate (CBR, VBR)
- **Bitrate Mode –** Select bitrate mode
- **Pre-defined –** Select from pre-defined values
  - **User-defined –** Enter user-defined value
  - **I Frame Interval –** Enter I frame interval (1~80)
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
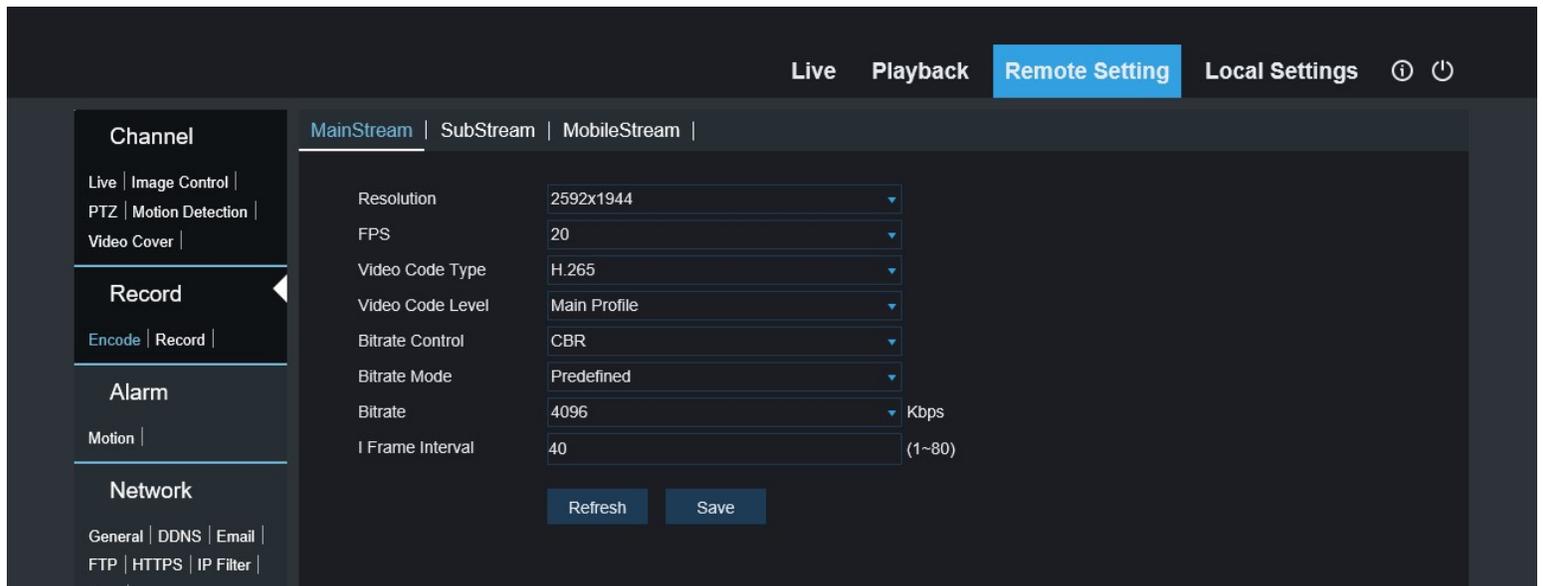
Remote Setting – Record – Record:

Rec. Parameters

- **Stream Mode –** Select between Mainstream and Sub stream to record
- **Record –** Enable/Disable recording
- **PreRecord –** Enable/Disable PreRecord (This always caches a few seconds of video)
- **Netbreak –** Enable/Disable Netbreak
- **Refresh –** Reloads initial values
- **Save –** Click to save changes

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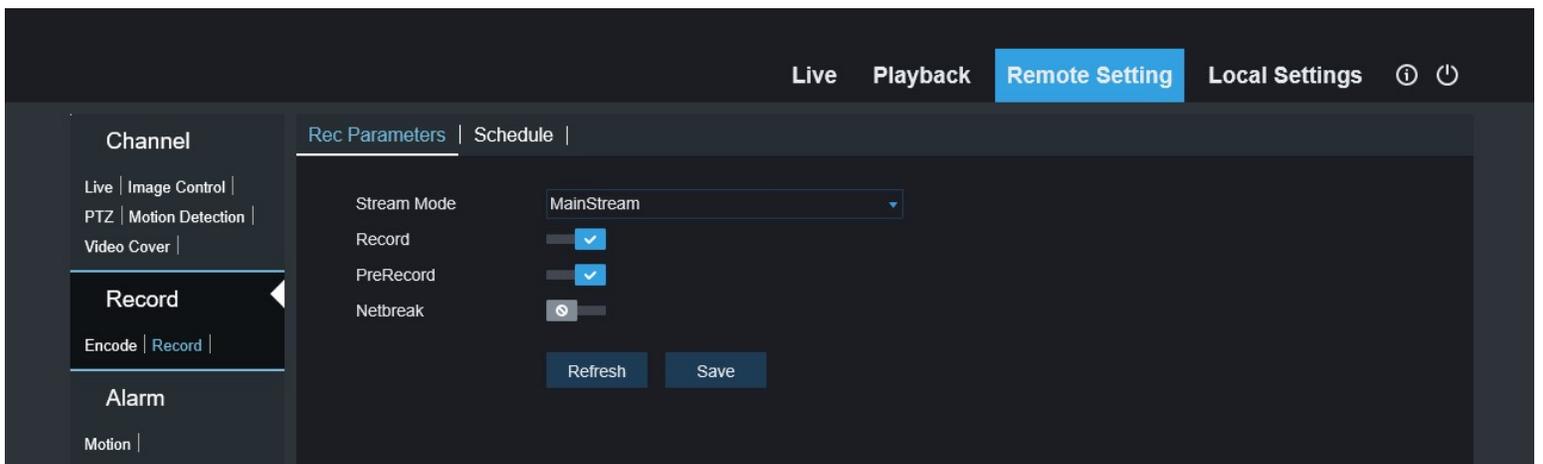
Remote Setting – Record – Schedule:

Select the schedule to record

- **Normal –** Select always recording option
- **Motion –** Select recording when motion is detected option
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
- **Default –** Select factory default
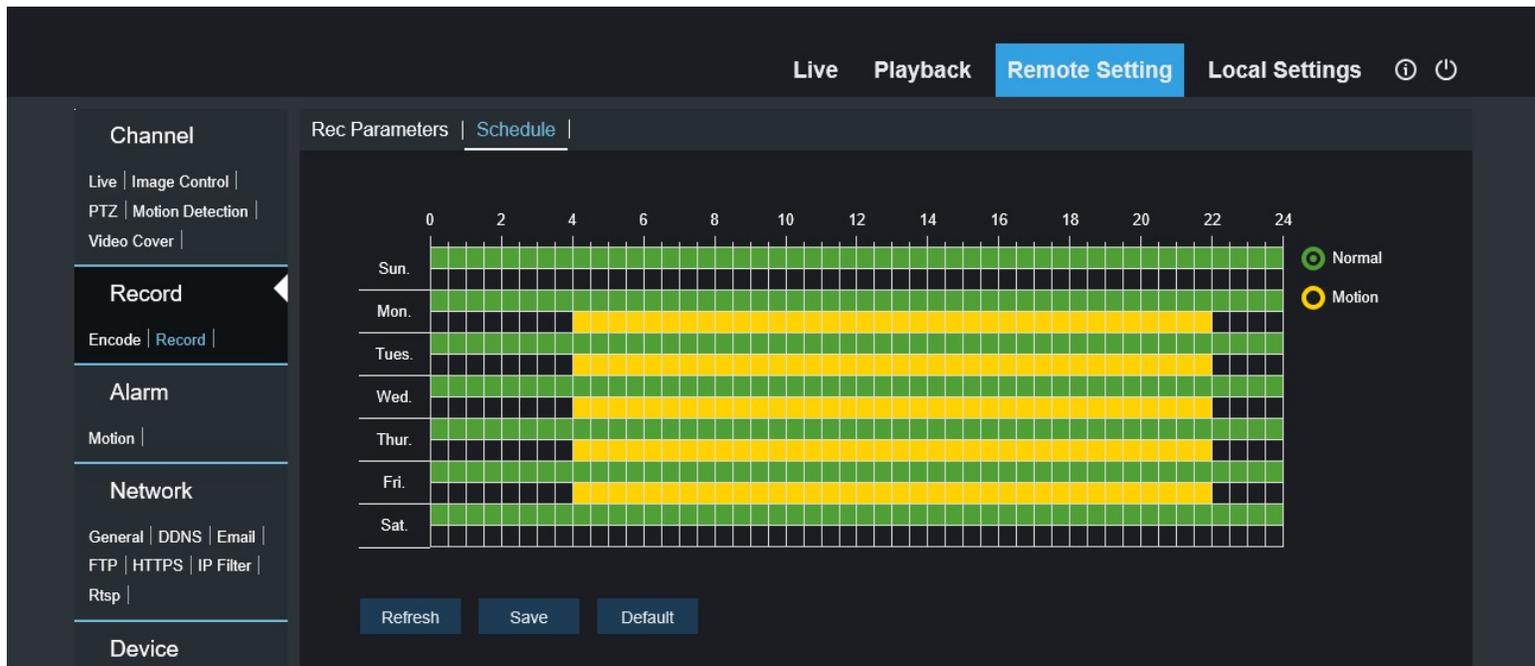
Remote Setting – Alarm – Motion:

- **Post Recording –** Select the seconds to keep recording after alarm has ended (0,5,10,20,30)
- **Send Email –** Enable email alert
- **FTP Upload –** Enable file transfer alert to an PTP site
- **Send to Cloud –** Select to enable cloud alert
- **Enable Record –** Select to start recording when alarm is activated
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
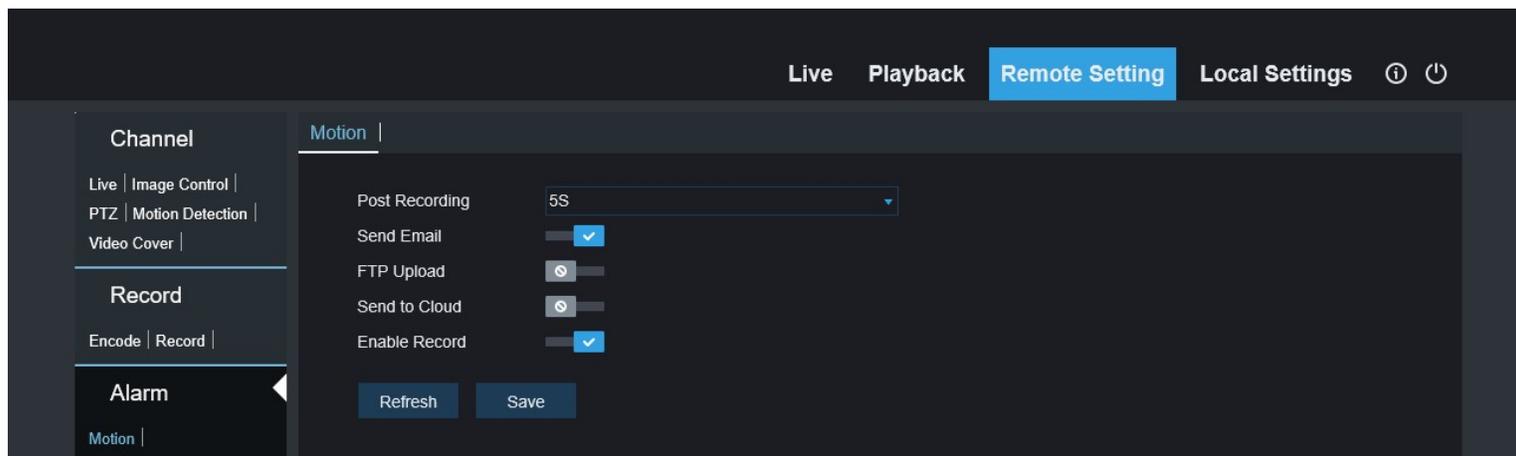
Remote Setting – Network – General:

- **DHCP –** Select to enable DHCP (Automatically receives an IP address and populates the rest of the network settings)
- **IP Address –** Enter the IP address
- **Subnet Mask –** Enter the subnet mask
- **Gateway –** Enter the gateway
- **DNS 1 –** Enter the primary DNS
- **DNS 2** – Enter the Secondary DNS
- **Multicast –** Select to enable camera to use multicast address
- **Multicast Address –** Enter the multicast address
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
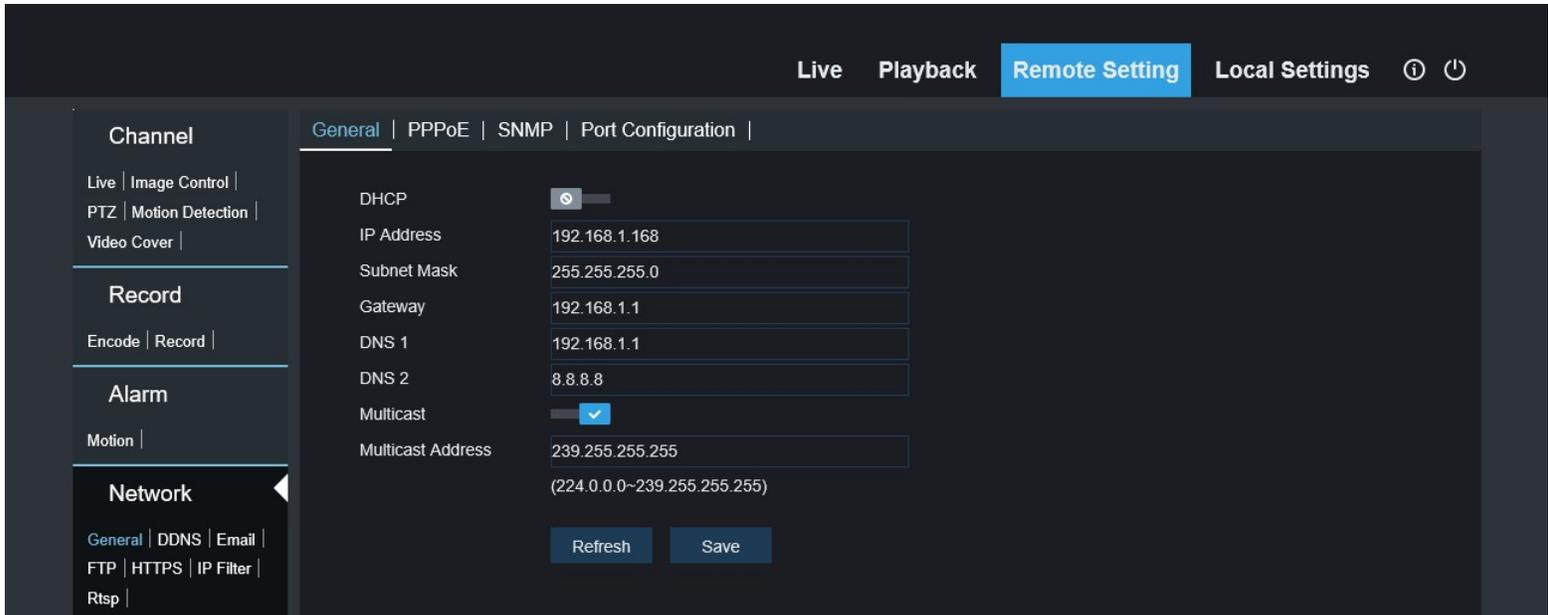
Remote Setting – Network – General – PPPoE:

- **Enable PPPoE –** Select to enable PPPoE (Point-to-Point Protocol over Ethernet)
- **Username –** Enter username
- **Password –** Enter password
- **IP Address –** Uses current IP Address
- **Subnet Mask –** Uses current subnet mask
- **Gateway –** Uses current gateway
- **DNS1 –** Uses primary DNS
- **DNS2 –** Specify secondary DNS
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
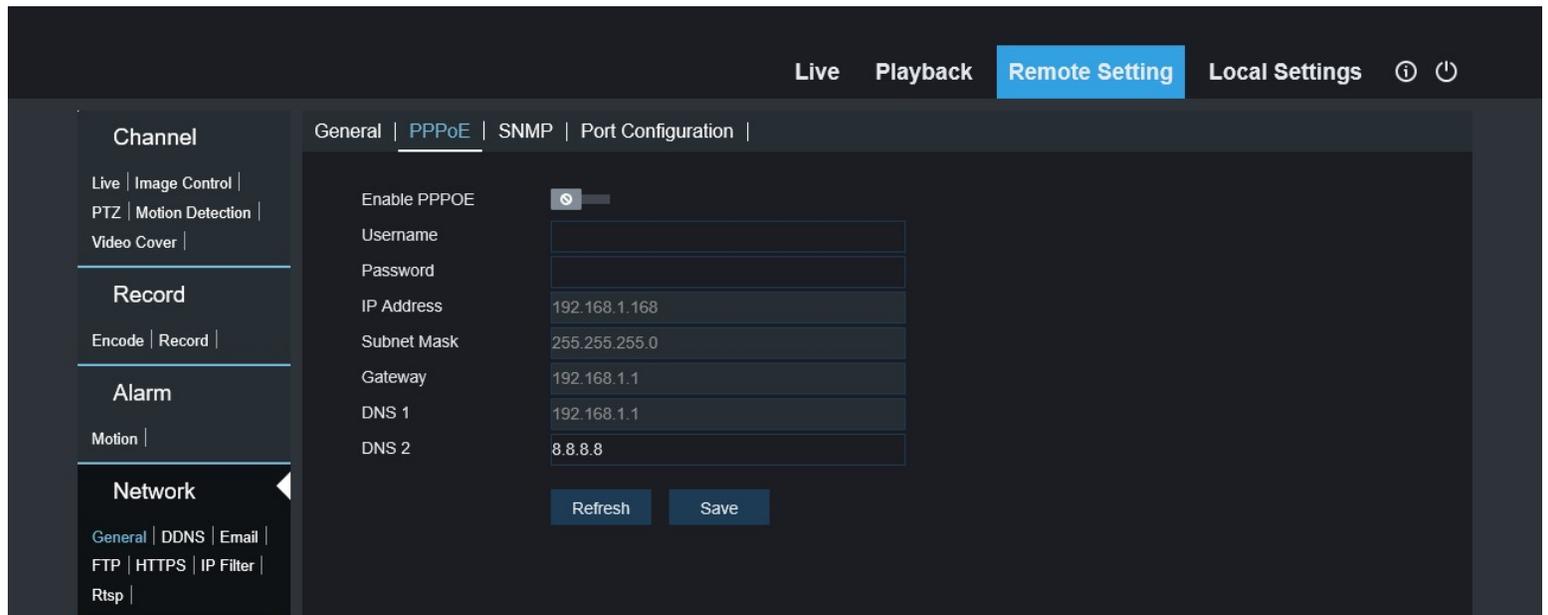
Remote Setting – Network – General – SNMP:

- **Enable –** Select to enable simple network management protocol (SNMP is used to collect ad manage data from managed devices on your network)
- **SNMP Version –** Select version of SNMP to use (v1, v2, v3)
- **SNMP Port –** Enter port
- **Read Community –** Enter read community string

- **Write Community –** Enter write community string
- **Trap IP Address –** Enter trap IP Address
- **Trap Port –** Enter port
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
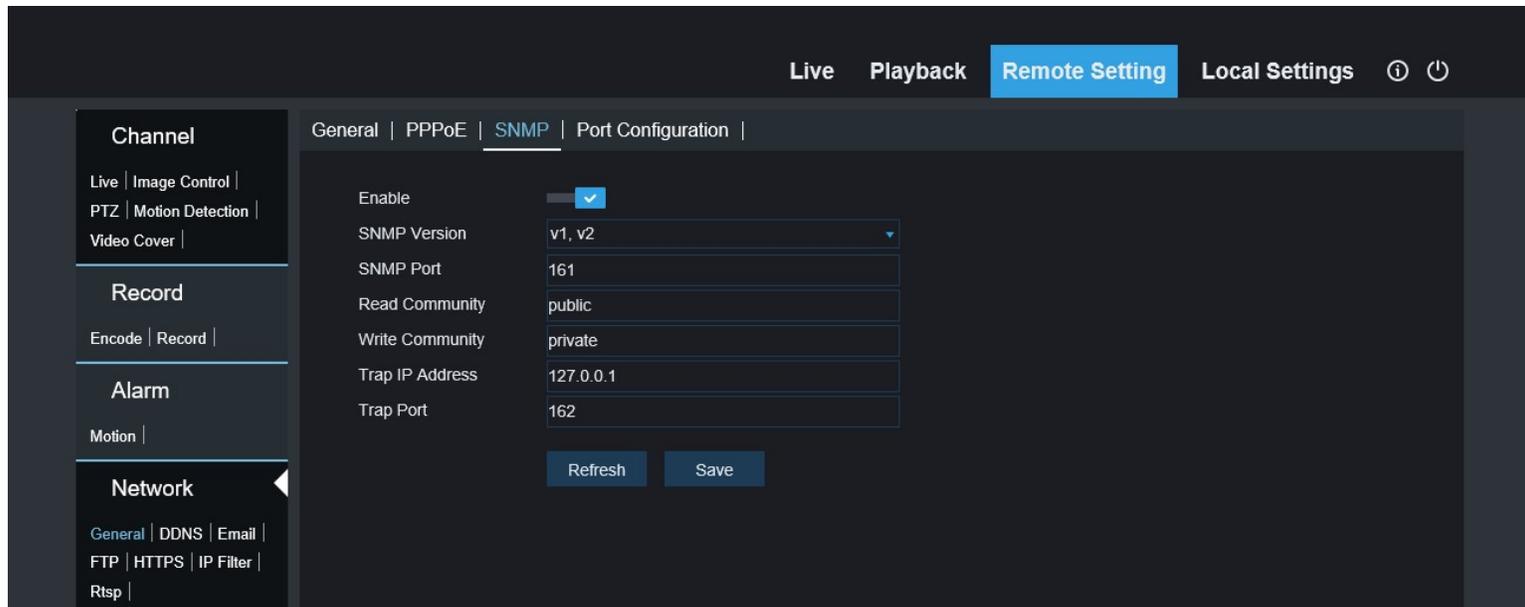
Remote Setting – Network – General – Port Configuration:

- **HTTP Port –** Number of the http port
- **Client Port –** Number of the client port
- **RTSP Port –** Number of the real time streaming port
- **HTTPS –** Number of the https port
- **Multicast Port –** Number of the Multicast port
- **UPNP –** Enable / Disable UPNP

- **Mapping Strategy –** Choose port mapping strategy
  - **Auto –** Automatically fills the port numbers
  - **Manual –** Allows you to specify port numbers
- **P2P Switch –** Select to enable P2P
- **Refresh –** Reloads initial value
- **Save –** Click to save changes
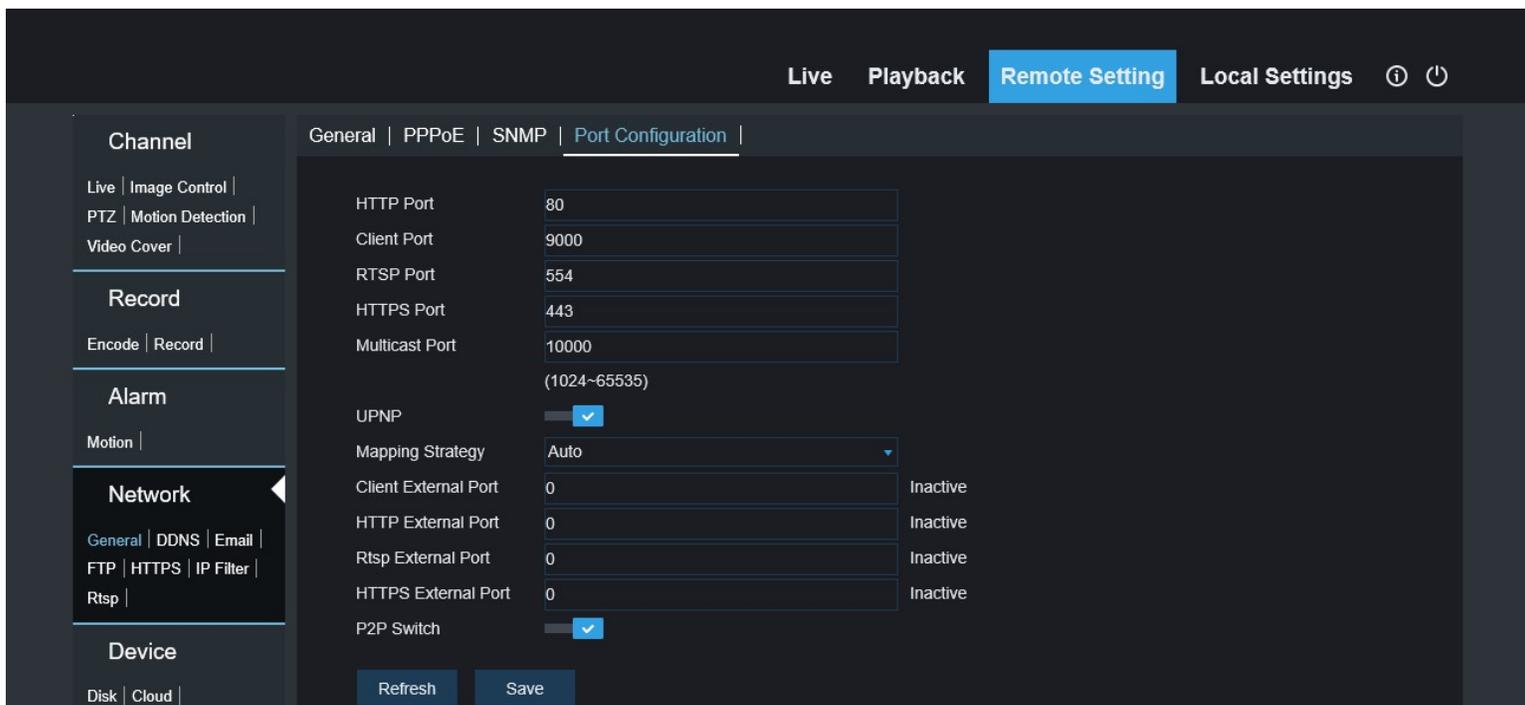
Remote Setting – Network – DDNS:

- **DDNS –** Select to enable Dynamic DNS (DDNS is used to dynamically update name servers with your network's information)
- **Server –** Select third party DDNS service (DYNDNS, NO-IP)
- **Hostname –** Enter the URL for site
- **Username –** Enter username
- **Password –** Enter password
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
- **Test DDNS –** Select to test settings

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Remote Setting – Network – Email Configuration

- **Email –** Select to enable email
- **Encryption –** Select encryption type (SSL, TLS, Auto, Disable)
- **SMTP Port –** Port for email server
- **SMTP Server –** Server location
- **Username –** Enter username
- **Password –** Enter password
- **Sender –** Enter user to send email
- **Receiver1 –** Enter first recipient
- **Receiver2 –** Enter second recipient
- **Reciever3 –** Enter third recipient
- **Interval –** Enter interval to send email in minutes (1, 3, 5, 10)
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
- **Test Email –** Click to test sending an email
- **Cancel –** Exits with no changes saved

Remote Setting – Network – FTP:

- **FTP Enable –** Select to enable file transfer protocol (FTP is a protocol used to transfer files between a client computer and an FTP server. Files are stored in FTP server)
- **Server –** Enter FTP server address
- **Port –** Enter port
- **Username –** Enter username
- **Password –** Enter password
- **Transfer Images –** Select to enable image upload
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
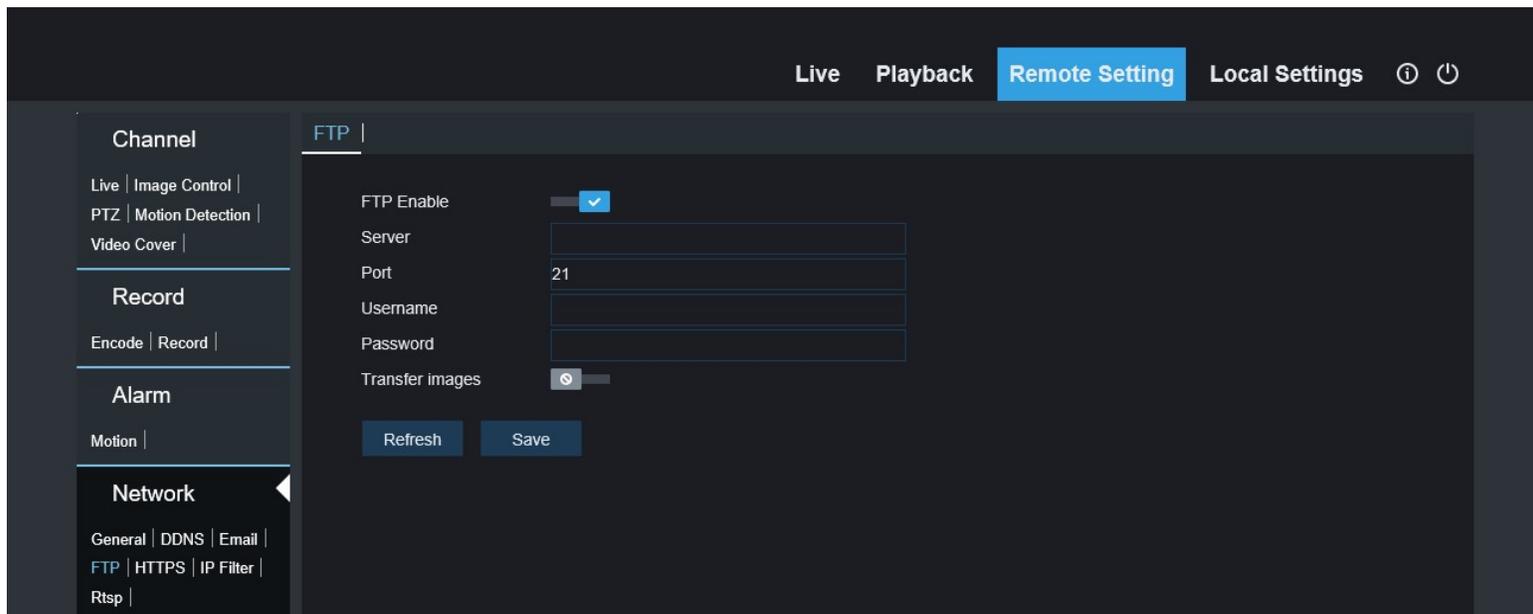
Remote Setting – Network – HTTP:

- **HTTPS –** Select to enable HTTPS (HTTPS is a secured version of HTTP)
- **Certificate Type –** Select type of certificate for HTTPS (Default, Custom)
- **Refresh –** Reloads initial values
- **Save –** Click to save changes

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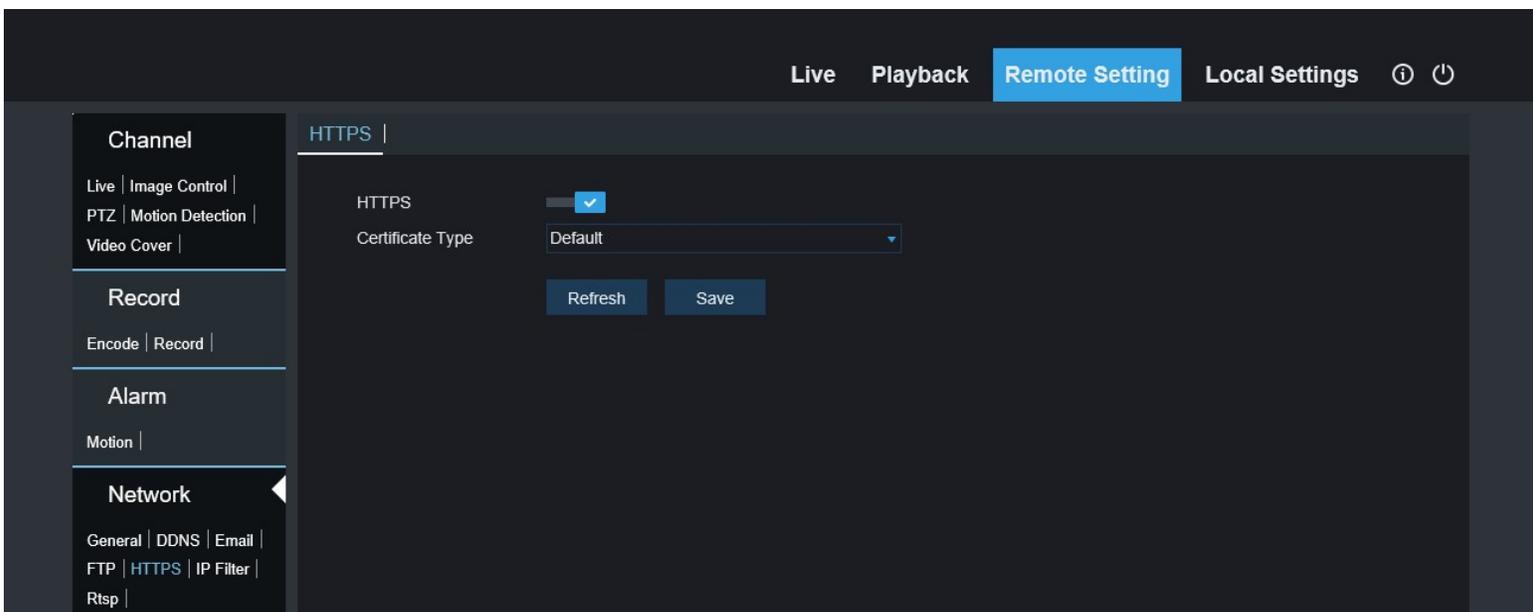
Remote Setting – Network – IP Filter:

- **Enable –** Select to enable IP filtering (restrict access to camera based on IP addresses)
- **Enable Allow List –** List devices that are allowed
- **Enable Block List –** List devices that are blocked
- **Restricted Type –** View allow or block list
- **Start Address –** Enter starting IP Address
- **End Address –** Enter ending IP Address
- **Single Add –** Add a single address
- **Network Segment Add –** Add a scope of IP addresses
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
- **Delete –** Remove IP Address from list

Remote Setting – Network – RTSP:

- **RTSPEnable –** Select to enable real time streaming protocol (RTSP is a protocol used to stream media across ethernet networks)
- **Anonymous Login –** Select to allow users with no credentials
- **Refresh –** Reloads initial values
- **Save –** Click to save changes

Remote Setting – Device – Disk:

Information regarding external hard drive (SD Card)

- **Overwrite –** Select whether to overwrite once hard drive capacity is full (Close, Auto)
- **Refresh –** Reloads initial values
- **Save –** Click to save changes

| | Live | Playback | Remote Setting | Local Settings | ⓘ ⏻ |

Channel

Live | Image Control |
PTZ | Motion Detection |
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General | DDNS | Email |
FTP | HTTPS | IP Filter |
Rtsp |

Device ◀

Disk | Cloud |

Disk |

NO.	State	Free / Total (G)	Free / Total Time

Overwrite   Close ▼

Format Hard Disk
NO.
No Hard Disk Found!
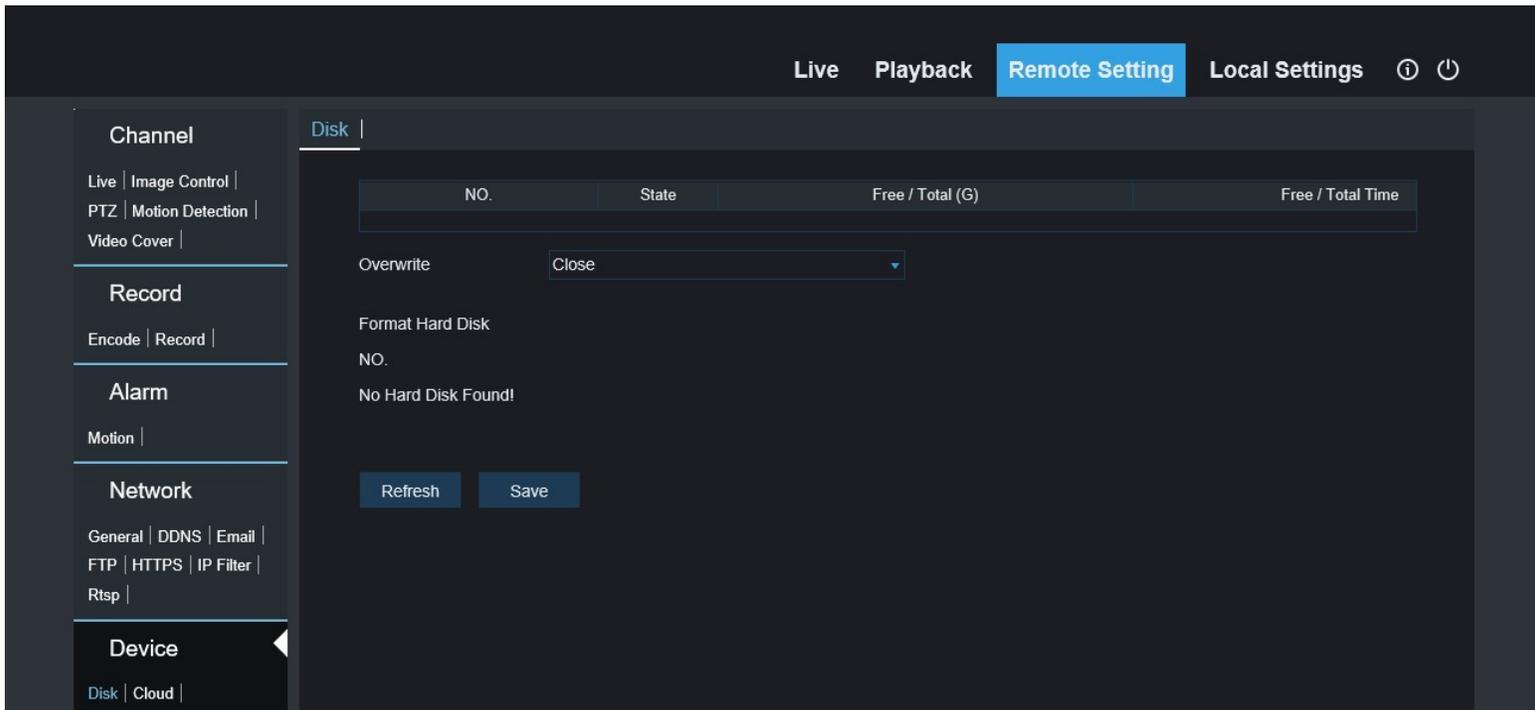
[Refresh] [Save]

Remote Setting – Device – Cloud:

- **Cloud Storage –** Select to enable cloud storage
- **Client Type –** Camera will only support Dropbox for cloud storage
- **Driver Name –** Enter driver name
- **Refresh –** Reloads initial values
- **Save –** Click to save changes
- **Activate Cloud –** Click to test cloud settings

| | Live | Playback | Remote Setting | Local Settings | ⓘ ⏻ |

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FTP | HTTPS | IP Filter |
Rtsp |

Device ◀

Disk | Cloud |

Cloud |

Cloud Storage   ✔
Cloud Type   DROPBOX ▼
Driver Name   IP CAMERA

[Refresh] [Save] [Activate Cloud]
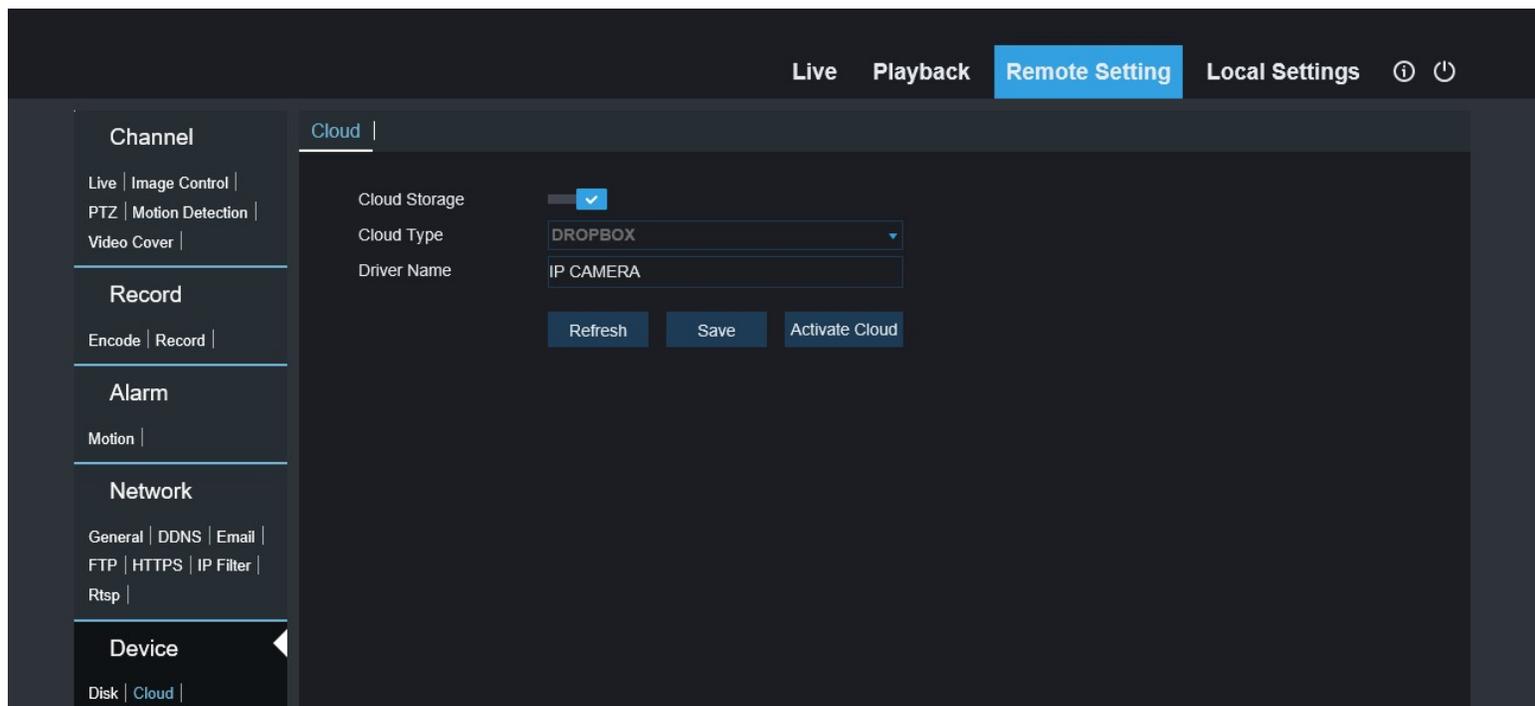
Remote Setting – System – General:

- **System Time –** Set current Date/Time
- **Date Format –** Select format to display date (MM/DD/YYYY, YYYY/MM/DD, DD/MM/YYYY)
- **Time Format –** Select time format (12hr, 24hr)
- **DST –** Enable daylight savings time
  - o **Daylight Time Mode –** Select daylight time mode (week, date)
  - o **Time Offset –** Select daylight savings time offset (1hr, 2hr)
  - o **NTP –** Enable network time protocol

- **Refresh –** Reloads initial values
- **Save –** Click to save changes

Remote Setting – System – Multi-User:

- **Configure Account Management NO. –** Account number
- **Username –** Account username
- **Password –** Account password (able to change password)
- **Active –** Displays if account is active or disabled
- **Refresh –** Reloads initial values
- **Save –** Click to save changes

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Remote Setting – System – Maintenance – Log:

- **Log Type –** Select type of log file
- **Path –** Select path of log files
- **Name –** Enter a filename for log file
- **Search –** Performs the Search and displays log

- **Scan –** Browse to directory with log files
- **Export –** Export log file (saves to directory specified in Path)
- **Start Time –** Set start time of search
- **End Time –** Set end time of search

Remote Setting – System – Maintenance – Load Default:

Select the categories to restore back to factory default:

- **All –** Will automatically select all categories
- **Save –** Restores the selected categories back to factory default

Remote Setting – System – Maintenance – Upgrade:

- **Record DIR –** Displays the software versions
- **Upgrade file path –** Enter path of upgrade file
- **Scan –** Click to browse for file
- **Start –** Start Upgrade

IMPORTANT NOTE: Do not close the browser or turn off the power when camera update is in progress, as this may cause damage to camera.

Remote Setting – System – Maintenance – Parameter Management:

- **Import File –** Enter file location to import a configuration file
- **Export File –** Enter file path to export a configuration file
- **Scan –** Browse
- **Import –** Import file
- **Export –** Export file
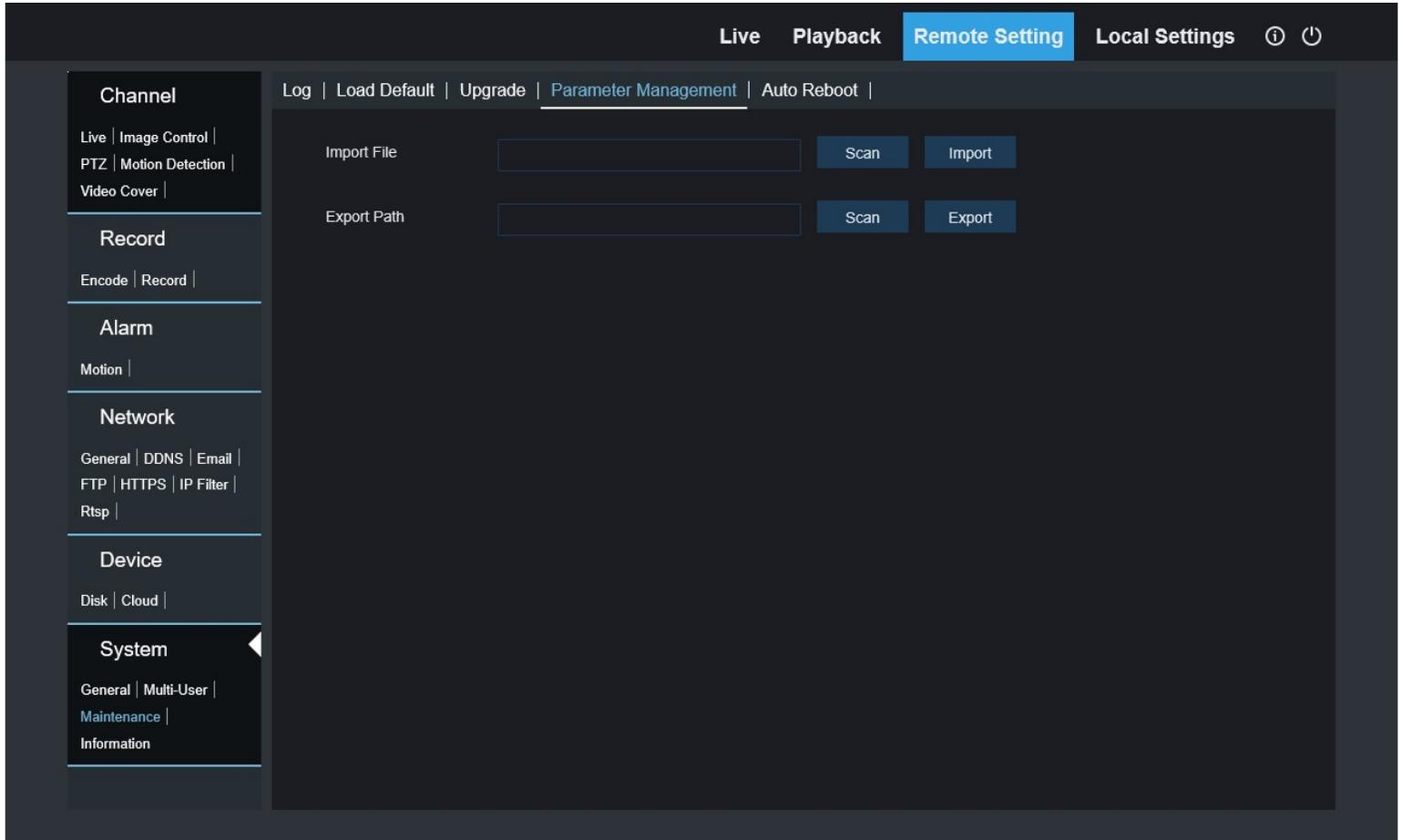
Remote Setting – System – Maintenance – Auto Reboot:

- **Auto Reboot –** Select to enable auto reboot of camera
- **Reboot –** Select to reboot daily, weekly, or monthly. Specify Day and time.
- **Refresh –** Reload initial values
- **Save –** Click to save changes
- **Reboot –** Reboots camera

Remote Setting – System – Maintenance – Information:

Displays the current software/hardware information for the camera

NOTE: Scanning the QR code will copy the P2P ID to the device's clipboard for easy copy / paste capabilities.

- **Refresh –** Reload initial values

Local Settings:

- **Record Path –** Set the directory for recorded video
- **Download Path –** Set the directory for downloaded video
- **Snapshot Path –** Set the directory for snapshots
- **File Type –** Select video format (RF, AVI, MP4)
- **Interval –** Set the maximum length of videos in minutes
- **Capture Type –** Select snapshot format (BMP, PNG, JPG)
- **Save –** Click to save changes

Troubleshooting:

The screen is blank	• Check that the camera is powered up • Check that the power supply's polarity is correct • Check that the monitor is powered up • Check that the video cable connecting the camera to the monitor is connected properly
The screen image is dim	• Clean the lens using a soft, clean cloth • Check that the light source is adequate
Strong backlight is overpowering the image	• Change the D-WDR or Backlight settings
Image has too much digital noise	• Change the DNR settings
The screen image is distorted	• Change the position of the camera
Motion detection is not activated	• Activate MOTION DET in the Setup Menu • Properly define the motion detection area
IR LEDs do not turn on	• Check that the correct power supply is in use

WARNING: Stop using the camera if you see a malfunction such as smoke or unusual heat, as it could cause a fire or electrical shock. Do not open the case of this device, as there are no user-serviceable components inside

IMPORTANT: Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or statutes.

FCC COMPLIANCE STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

SECO-LARM® U.S.A., Inc.
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