Capture by ADI

IP Camera User Manual

Summary		**4**
Key Features		**4**
Trademarks & Acknowledgments		**4**
Other References		**5**
Mobile devices		5
Universal ActiveX Control		5
Disclaimer		**5**
Caution		**5**
Section 1	**System Overview**	**6**
Section 1.1	System Requirements	6
Section 1.2	Software Requirements	6
Section 1.2.1	Apple Mac OS	6
Section 1.2.2	Windows PC OS	6
Section 2	**Before Accessing IP Cameras**	**6-7**
Section 2.1	Configure IP Addresses using the IPScan Utility	6
Section 2.2	Configure IP Addresses through HTML Connection	7
Section 2.3	Login	7
Section 3	**IP Camera Operations**	**8**
Section 3.1	HTML Operations	8
Section 3.2	Quick Buttons	8
Section 4	**Settings**	**9-27**
Section 4.1	System Settings	9-11
Section 4.1.1	General Settings	9-10
Section 4.1.2	User Settings	10
Section 4.1.3	Timer Settings	10
Section 4.1.4	OSD Settings	10-11
Section 4.1.5	System Log	11
Section 4.2	Video	11-15
Section 4.2.1	General	11-12
Section 4.2.2	Quality- Basic	12
Section 4.2.3	Quality- Advanced	13

Section 4.2.3.1	SenseUp+	14
Section 4.2.3.2	White Balance Control (AWB)	14
Section 4.2.4	Auto Focus	15
Section 4.2.5	Day/Night Mode Switch	15
Section 4.2.6	Privacy Mask	15
Section 4.3	Controls	16-18
Section 4.3.1	Digital I/O	16
Section 4.3.2	Global Counter	16
Section 4.3.3	Virtual Input	16
Section 4.3.4	Metadata	17-18
Section 4.4	Network	18-21
Section 4.4.1	General	18-19
Section 4.4.2	HTTP Service	19
Section 4.4.3	RTSP	19
Section 4.4.4	HTTPS Service	19-21
Section 4.4.5	DDNS	21
Section 4.5.	Smart Event	22-23
Section 4.5.1	Motion Detection	23
Section 4.6	Notifications	24-26
Section 4.6.1	FTP Service	24
Section 4.6.2	SMTP (Email) Service	24-25
Section 4.6.3	HTTP Post Service	25
Section 4.6.4	SD Card Service	25
Section 4.6.5	SD Card Backup File	25
Section 4.6.6	Samba Service	26
Section 4.7	Maintenance	26-27
Appendix		**28**
DDNS Network Settings		**28**
Advanced Port Forwarding Technology		**28**
Restore to Factory Default		**28**

Summary
The Capture by ADI camera range consists of high performance 5MP day and night models with fixed, varifocal and auto focus lens options. The IP cameras adopt the latest H.265 compression technologies, which allow multiple streaming of H.264/H.265 formats at 5MP resolution. Our multiple streaming technology transmits digital video at various bit rates and frame rates to suit both high and low bandwidth network environments.

The IP cameras provide various alarm notifications including mobile device live access, email notification with JPEG snapshots, HTTP push notification, and JPEG-to-FTP upload.

The combination of our Capture by ADI NVR and IP cameras will maximize your system performance and deliver an integrated system solution.

Key Features
- Supports H.264 and H.265 encoding formats.
- Built-in intelligent video analytics engine with Email or FTP snapshot alarms.
- Day/night video quality independent scheduling.
- Motion detection.
- On the fly bit rate and frame rate adjustment.
- Support Android, iPad, and iPhone mobile live monitoring.
- Support dynamic DNS (DDNS) and network time protocol (NTP).
- Support HTTP API integration.
- Support ONVIF Profile S protocol.
- Support our Central Management Software.

Trademarks & Acknowledgments
Windows 7, ActiveX, and Internet Explorer are registered trademarks of Microsoft Corporation in the U.S. and/or other countries. Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries. Flash, Macromedia, and Macromedia Flash Player are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries. Linux and DynDNS are registered trademarks of the respective holders. Intel, Pentium, and Intel® Core™ 2 Duo are registered trademarks of Intel Corporation. FFmpeg is a trademark of Fabrice Bellard, originator of the FFmpeg project. QuickTime and the QuickTime logo are trademarks or registered trademarks of Apple Computer, Inc., used under license therefrom. Other names of companies and their products mentioned in this manual may be trademarks or registered trademarks of their respective owners.

This product contains H.265 (High Efficiency Video Coding, HEVC) codec technologies and is manufactured under the license from Access Advance LLC, and the HEVCAdvance symbol are trademarks of Access Advance LLC.

Covered by one or more claims of the HEVC patents listed at patentlist.accessadvance.com.

Other References

Mobile devices
'Capture by ADI' mobile surveillance app is available to download on both iOS and Google Play stores.

Universal ActiveX Control
Sample codes and documents can be downloaded from our www.capturebyadiinfo.co.uk website.

Disclaimer
Please be aware that this user manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable or available to all models. We reserve the right to change product specifications, designs and equipment without notice and without incurring obligation.

Caution
- Do not drop or damage the equipment
- Do not install the equipment near fire or heat sources
- Keep the equipment from rain, moisture, smoke, or dust
- Do not cover the opening of the cabinet with cloth and/or plastic or install the unit in poorly ventilated places. Allow 10cm between this unit and its surroundings
- Do not continue to operate the unit under abnormal conditions such as smoke, odor, or loss of signal whilst power is turned on
- Do not touch the power cord with wet hands
- Do not damage the power cord or leave it under pressure
- To avoid unnecessary magnetic interference, do not operate this unit near magnets, speaker systems, etc.
- All connection cables should be grounded properly

Section 1: System Overview

Section 1.1: System Requirements

The IP camera uses compression technology that provides high compression rate and superior video quality. However, video performance depends highly on CPU power and network bandwidth for video streaming. The following sections specify the system requirements for using our IP cameras.

Section 1.2: Software Requirements

Section 1.2.1: Apple Mac OS

Capture by ADI cameras use HTML5 streaming to ensure continuity in menu appearance across browsers (including Safari) without software plug-ins.

Section 1.2.2: PC Windows OS

Capture by ADI cameras use HTML5 streaming to ensure continuity in menu appearance across browsers without software plug-ins.

Section 2: Before Accessing IP Cameras

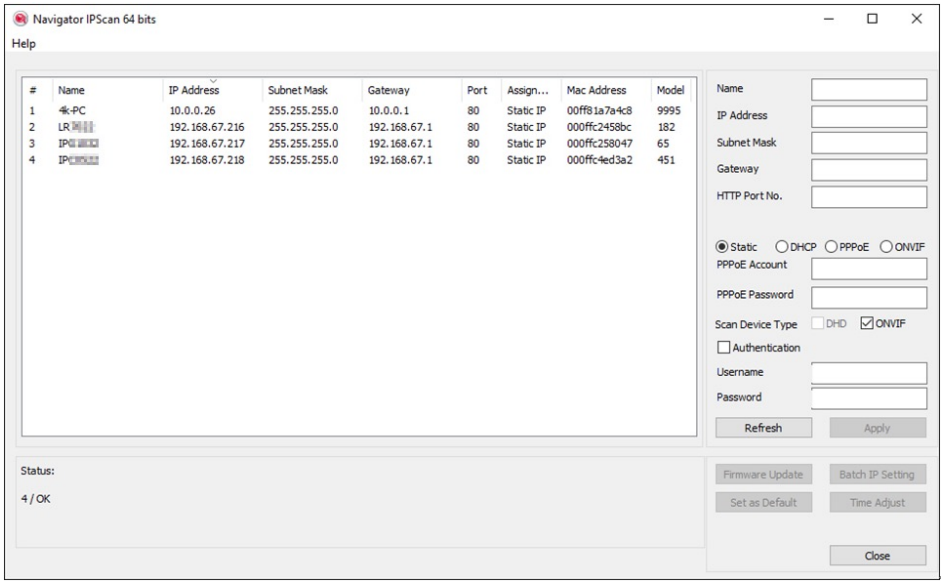
You can configure the IP address of your Capture by ADI camera through the NVR or via IPScan, which can be downloaded from our website.

Before accessing the cameras, make sure that the camera's RJ-45 network connector and/or power cable are properly connected. The default IP address for each IP camera is 192.168.0.200. Users can use the default IP address to verify the camera's network connection.

Section 2.1: Configure IP Addresses using the IPScan Utility

To configure the IP address of your cameras, download IPScan from our website. To change the IP address, subnet mask, gateway, or HTTP port of your cameras, follow the steps below:

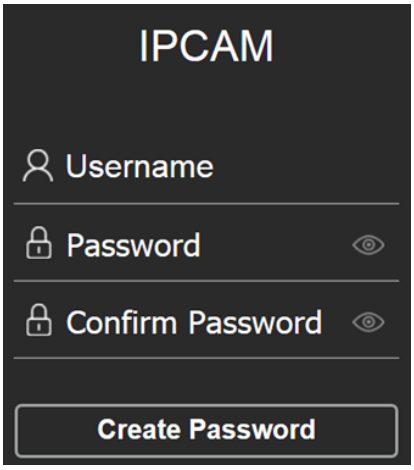
1. Run the IPScan utility
2. Click Refresh. All available devices will be listed on the screen
3. Select the device item from the device list
4. To edit or modify IP address, subnet mask, gateway, or HTTP port, use the box
5. Click Apply for the changes to take effect
6. Click Refresh again to verify the changed settings



Section 2.2: Configure IP Addresses through HTML Connection
To change an IP address on a webpage, type the default IP address (192.168.0.200) into the browser address bar and follow the steps below:

- Due to security reasons, you will be asked to create the username and password upon first login. Press Confirm to complete the setting and login simultaneously.
- Click Setup-Network to edit or modify IP address, subnet mask, gateway, or HTTP port.
- Click Submit for the changes to take effect.

Section 2.3: Login
As part of our cybersecurity policy, you will be asked to create a username and password when you first access your Capture by ADI device.

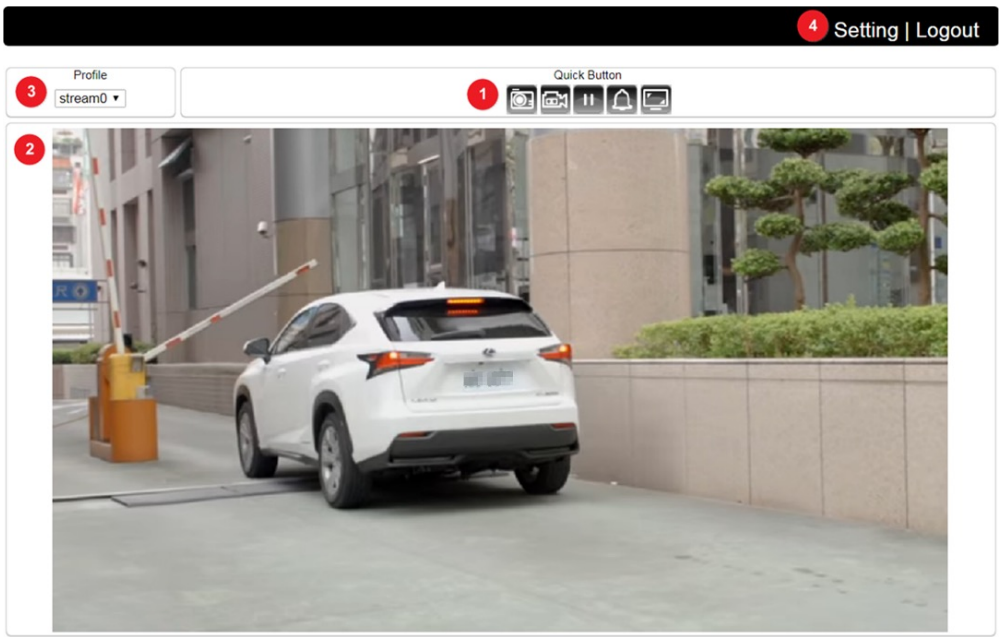


Minimum Password Strength Requirements:
1. The password length must be 8 or more characters.
2. The password must include at least 1 number (0 ~ 9), 1 uppercase letter, 1 lowercase letter and 1 symbol (~ ? / + = , : ; . ' @ # % ^ & * ( ) _ -).

Note: Please make note of the username/password you set. If you forget the login credentials you will need to perform a hardware factory default.

Section 3: IP Camera Operations
When logged in as an administrator, two main features are available:
1) camera operations and
2) configurations.

Section 3.1: HTML Operations



1. **Quick buttons:** IP camera shortcuts
2. **Display screen:** Display the streaming video
3. **Profile switching menu:** Switching from one profile to another
4. **Setup buttons:** IP camera setup menu

Section 3.2: Quick Buttons
The quick control panel buttons are described below:

	Take a Snapshot
	Start Recording
	Pause Recording
	Auto Focus (Select Models)
	Enlarge the Live view.

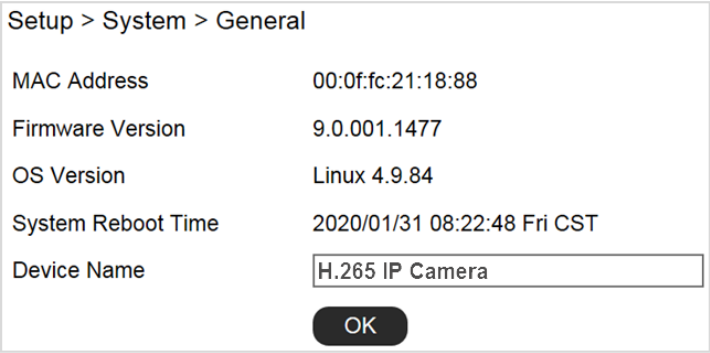
Section 4: Settings

As an administrator, you can configure the IP camera via a web browser.
Click Setting at the top-right corner of the screen after you log in to the camera.

Section 4.1: System Settings

Section 4.1.1: General Settings

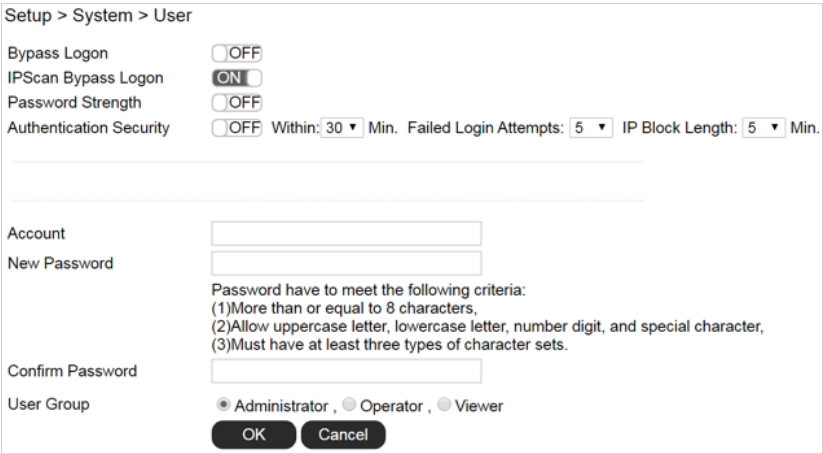
Under System Settings - General, you will see server system information, such as MAC address, firmware version, os version, system reboot time, and device name settings. To modify these options, follow the instructions below:



- **MAC Address:** The MAC address of the IP camera
- **Firmware Version:** Firmware version of the IP camera
- **OS Version:** The version number of the IP camera
- **System Reboot Time:** The last time your system was rebooted.
- **Device Name:** The device name can be found using the IPscan utility, which allows you to identify the IP cameras. To change the device name, enter a new name for the IP camera and click OK.

Section 4.1.2: User Settings

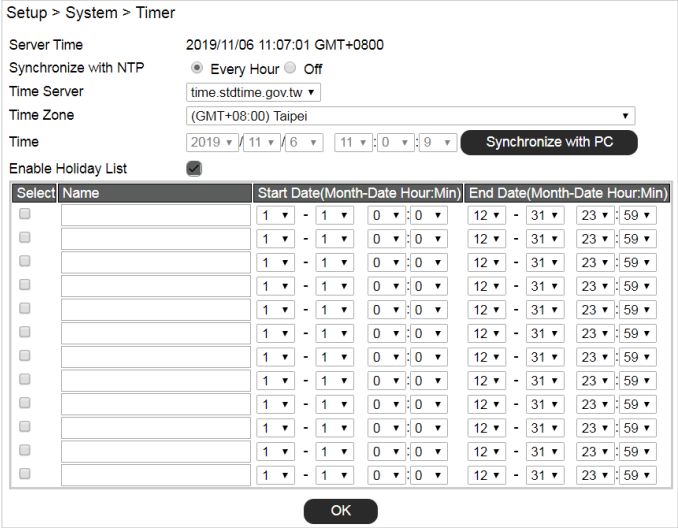
The IP camera supports up to 7 user accounts. Each account can be individually configured for its own access rights. To add/edit a user, click Add/Edit User. To access an IP camera without authentication, switch the Bypass Logon option to On. Enable IPScan Bypass Logon to log in to the IP camera through IPScan without authentication. To add a user, press Add User, and you will see the following screen:



Enter the account name, password and confirm password to add new account, and then check to assign the access rights for this account. Click OK to update the settings.

To edit account information, select the user and click Edit User. To delete a user, select the user and click Remove User. Click Submit to update the settings.

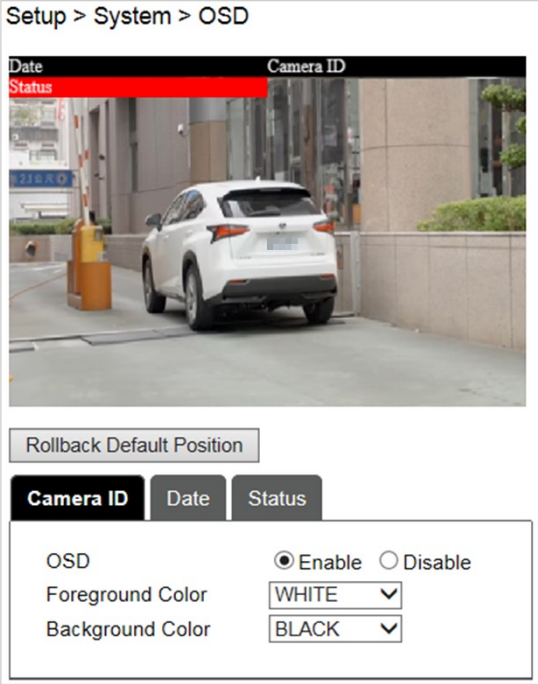
Section 4.1.3: Timer Settings
You can change the time of your camera through the web browser. Simply select the date and time in the drop-down menus, and click OK to apply. You may also set the holiday list in this page.



Synchronize with an NTP server
To synchronize with an NTP server, change the Synchronize with NTP to Every Hour. The camera will synchronize its system time with a time server every hour.

Note: This function requires Internet connection.

Section 4.1.4: OSD Settings
OSD (on screen display) is for the use of displaying system information on the video. There are features of date and status available.



Camera ID, Date and Status are described below:

- **OSD:** Click to enable or disable the OSD
- **Foreground Color:** The color of the text
- **Background Color:** The background color of the text

Section 4.1.5: System Log

You can view the system-generated log in this page. Click Save icon to export the log to a DB (database) file. You can also search for the log file.

Setup > System > System Log

Page 1 of 3 | Type: ALL | Displaying 1 to 5 of 15 items

IP Address	User	Date & Time	Log Description
192.168.110.5	admin	2019/11/06 10:48:26	HTTP User Reject(SYSTEM WRONG)
192.168.110.202	admin	2019/11/06 10:33:03	Update Device Name(SYSTEM MESSAGE)
192.168.110.74	admin	2019/11/06 09:30:15	HTTP User Reject(SYSTEM WRONG)
192.168.110.74	admin	2019/11/06 09:30:15	HTTP User Reject(SYSTEM WRONG)
		2019/11/06 07:42:48	Power On(SYSTEM MESSAGE)

Section 4.2: Video

Live | Language | Logout

System | Video | Controls | Network | SmartEvent | Notification | Maintenance

Section 4.2.1: General

To transmit video over a low bandwidth network such as the Internet, set the bit rate close to the actual upload bandwidth. The camera encodes frames based on the bit rate setting.

Setup > Video > General

Video Standard : 60Hz 50Hz

Encoder1

Profile Name	H.264
Resolution	2592x1920
Output Frame Rate	20
GOP (Group of Pictures)	20
Stream Mode	CBR
Bit Rate	3 Mbps
RTSP URL	rtsp://192.168.89.225/stream0

Encoder2

Profile Name	H.264
Resolution	720x480
Output Frame Rate	10
GOP (Group of Pictures)	10
Stream Mode	CBR
Bit Rate	1 Mbps
RTSP URL	rtsp://192.168.89.225/stream1

Encoder3

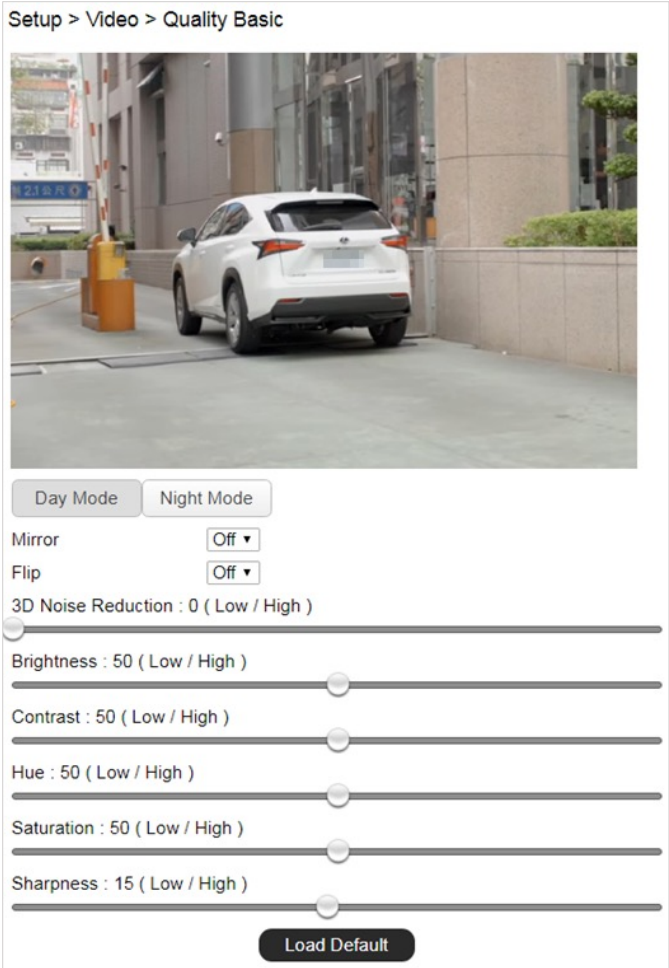
Profile Name	H.264
Resolution	352x256
Output Frame Rate	10
GOP (Group of Pictures)	10
Stream Mode	CBR
Bit Rate	1 Mbps
RTSP URL	rtsp://192.168.89.225/stream2

OK | Load Default

- **Profiles:** 3 customisable profiles
- **Video Standard:** NTSC/PAL setting
- **Profile Name:** The selection of H.264/H.265 video compression
- **Resolution:** The resolution of the video stream
- **Output Frame Rate:** The frame rate of the video
- **GOP:** The number of I-frames to be displayed in one second
- **Stream Mode:** Variable bit rate, an encoding mode to reduce the bandwidth;
- **CBR:** constant bit rate, an encoding mode that consumes more bandwidth
- **Bit Rate:** The maximum bit rate available for your network connection
- **RTSP URL:** Access the video stream via the Real Time Streaming Protocol
- **Image Quality:** The compression rate of the H.264/H.265 stream

Section 4.2.2: Quality Basic

This menu allows you to the adjust brightness, contrast, hue, saturation, and sharpness both for the Day Mode and Night Mode. Individual day/night settings ensure that the camera to is able to provide optimal video quality in different light settings.

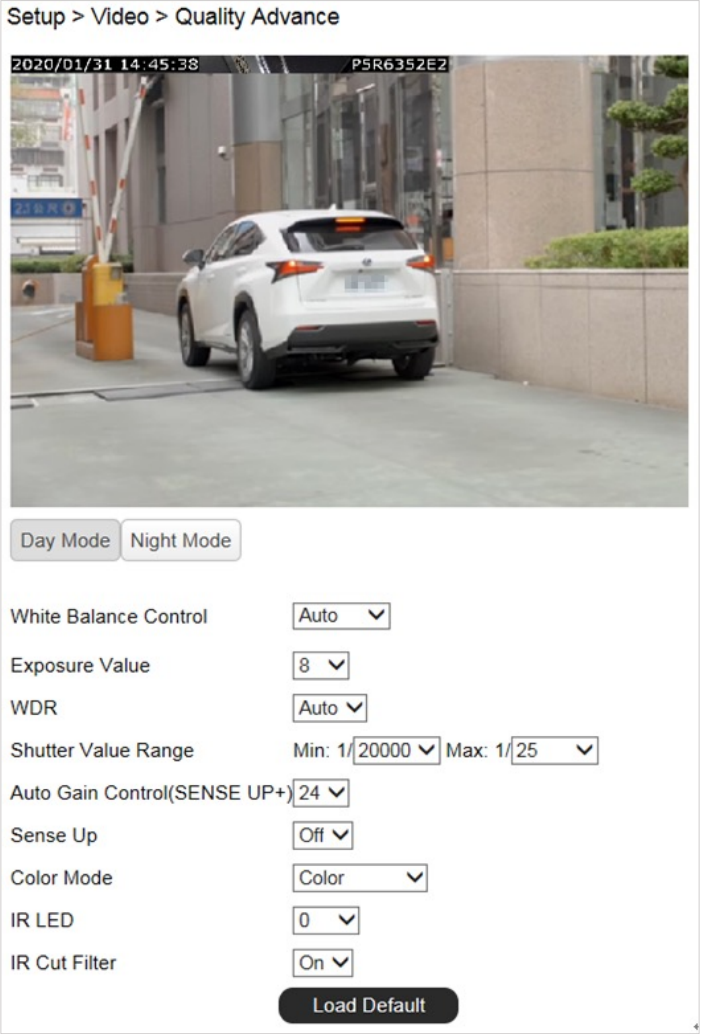


- **Mirror:** Mirror the video
- **Flip:** Flip the video
- **3D Noise Reduction:** If the noise of the video is high at night, adjust the setting higher.

Section 4.2.3: Quality Advance

In this page, you have access to Exposure, Automatic Gain Control, White Balance Control, Sense Up, Shutter Speed, and IR-Cut settings allowing you to adjust camera video quality for day and night independently.

The camera provides two sets of video quality options for day or night mode. This is especially useful for ANPR/LPR application where the shutter speed can be customized for separate day and night settings. The video quality settings can be applied by Day and Night Switch explained later in this Section.



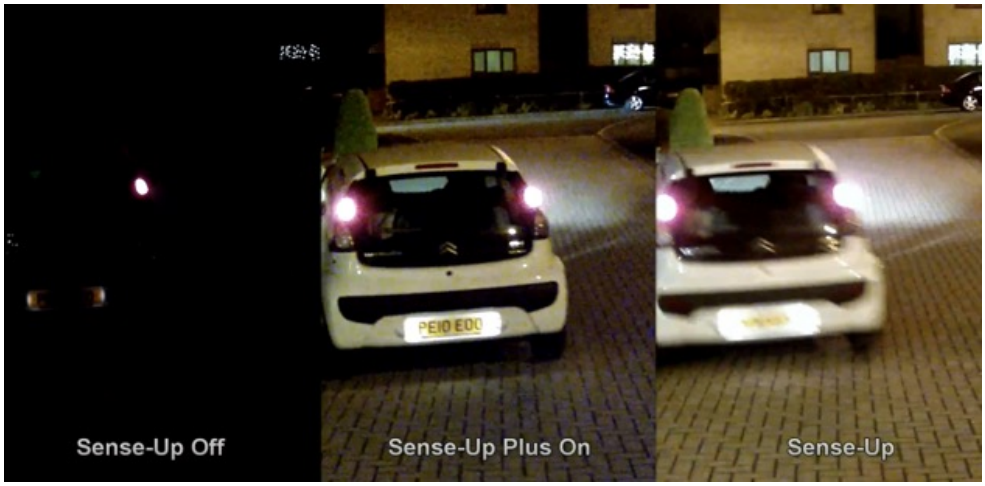
Video setting options are described as follows:

White Balance Control: adjusts the white balance manually or automatically
Exposure Value: adjusts the exposure value; the higher the value, the brighter the video
WDR: enables or disables Wide Dynamic Range to capture greater details
Shutter Value Range: set the min and max shutter values
Auto Gain Control (Sense Up+): see the below description
Sense Up: select the level of Sense Up to enhance the video
Color Mode: switch between color/black-and-white mode
IR LED: IR LED control
IR Cut Filter: enable/disable the IR cut filter

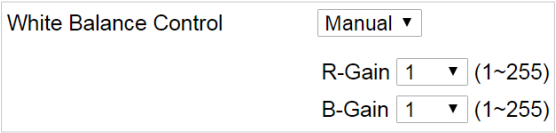
Without Sense Up

Sense Up by 3 Frames

Section 4.2.3.1: Sense Up+
Sense Up+ (AGC) is a low-light and high-sensitivity DSP control that enables outstanding video quality even in low-light environments. Sense Up+ technology can be used for both black-and-white and/or color video modes. To enable Sense Up+, first enable Auto Gain Control (AGC). Using Sense Up+ with 3D noise reduction (3D DNR) can reduce noise that occurs in low light environments. AGC and 3D DNR do not cause motion blur. If the picture is still too dark under the environment, turn on Sense Up (slow shutter) instead, however, it may cause motion blur in low-light conditions.

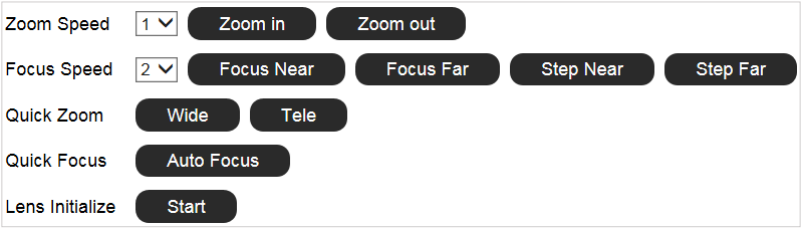


Section 4.2.3.2: White Balance Control (AWB)
There are day time and night time auto white balance controls (ATW) for the camera.



- **White Balance Control:** Auto white balance and manual white balance
- **R-Gain:** Red gain specific auto white control
- **B-Gain:** Blue gain specific auto white control

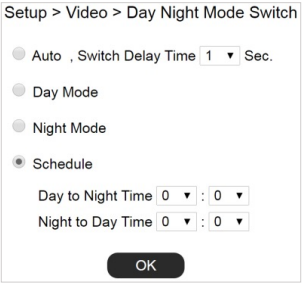
Section 4.2.4: Auto Focus
Here you can change the settings of autofocus functions for supported cameras- **CAP5R6452X3, CAP5R6552X, CAP5R8952X3.**



- **Zoom Speed:** Set the speed for **Zoom In** and **Zoom Out**.
- **Focus Speed:** Set the speed for **Focus Near** and **Focus Far.**
- **Quick Zoom:** Zoom to the ratio you specified.
- **Quick Focus:** Click to focus automatically.
- **Lens Initialize:** Click to reset zoom speed, focus speed, and zoom ratio to factory defaults.

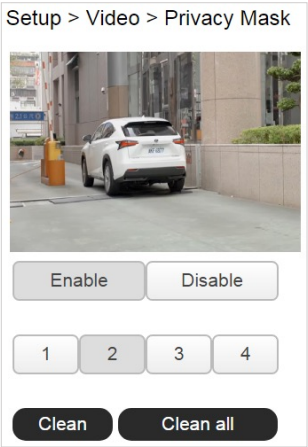
Note: This section applies to Auto Focus camera models only.

Section 4.2.5: Day Night Mode Switch
The Day/Night Mode Switch allows you to schedule IR activities by (1) auto, (2) day, (3) night, (4) schedule, or (5) external control. When the setting is set to Auto, the IR module is turned on/off automatically according to the signal from the light sensor. The Night setting removes the IR cut filter, and the Day setting keeps the filter on. If you choose Schedule, the filter turns on/off according to the set time period.



Note: IR-cut camera model only

Section 4.2.6 Privacy Mask
The IP camera provides up to 4 zones of privacy masking. Select any of the masking numbers and drag to create a mask for specific areas.



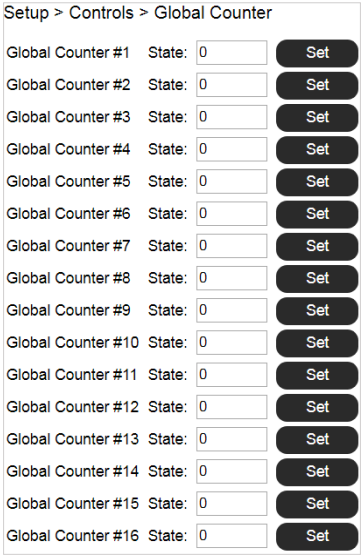
Section 4.3: Controls

Section 4.3.1: Digital I/O

Selected camera models will support NO and NC control interface- this will be indicated on the camera specification sheet. To set up, connect the external alarm digital input to the IP camera. And switch between NO (normally open) and NC (normally closed) for the input.

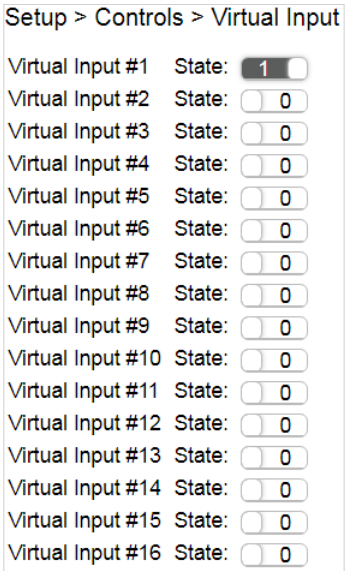
Section 4.3.2: Global Counter

The global counters are for counting a trigger of a remote device. The global counter can be triggered by metadata, or a virtual input. The global counters can be used for output purposes, such as LED display.



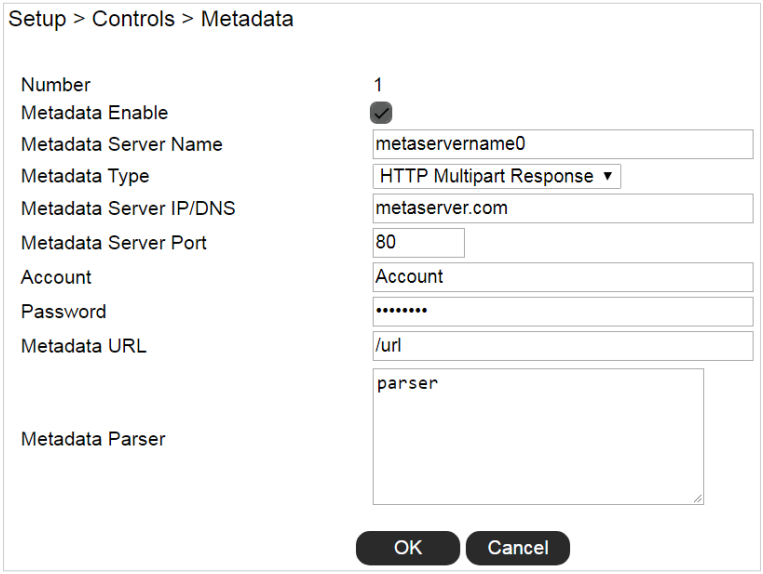
Section 4.3.3: Virtual Input

The IP camera provides up to 16 virtual inputs. The virtual inputs are CGI commands that these can be used for other remote device to trigger.



Section 4.3.4 Metadata

Metadata is the HTTP response of a CGI command. The IP camera is able to receive the metadata from an IP device. The metadata is the URL response of an IP device.



The example below, the IP camera is able to receive the metadata of motion events, MotionDetect token of /getalarmmotion CGI command, from an IP device. The events are captured into the valuable *%Trigger1%* for actions. In the SmartEvent, *%Trigger1%* can be used for a global counter for event triggering.

To setup metadata, complete the settings as below:

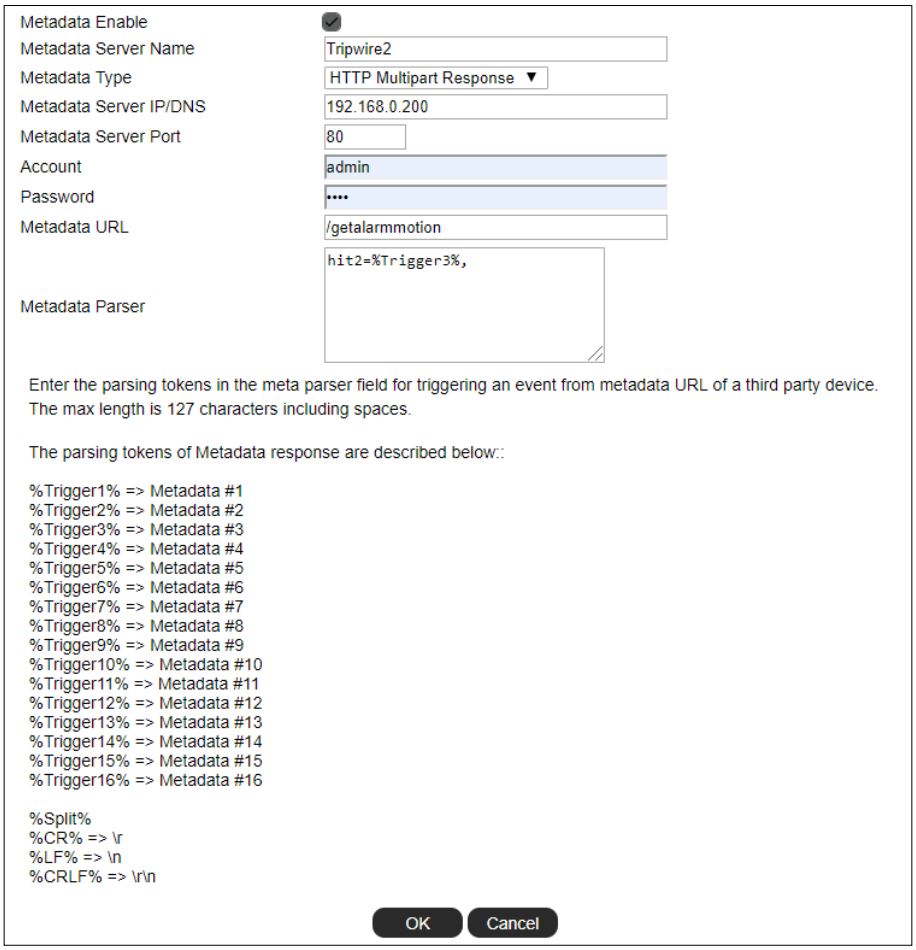
Metadata Enable: Enable metadata service.
Metadata Server Name: Specify the name of the metadata service.
Metadata Type: (1) HTTP multipart response, (2) HTTP response

(1) HTTP multipart response—Continuous responses
(2) HTTP response—Client-pull by a schedule

Metadata Server IP/DNS: The IP address of an integrated device.
Metadata Server Port: The port number of the integrated device.
Account: Account name of an integrated device.
Password: password of an integrated device.
Metadata URL: The URL of the an integrated device. "/" is required.
Metadata Parser: The parsing tokens for the valuables of Triggers.

Special Characters:
If there are special characters such as "/", "\r", "\n", and "\r\n" in the metadata, enter special characters for parsing the metadata.

%Split%
%CR% => \r
%LF% => \n
%CRLF% => \r\n

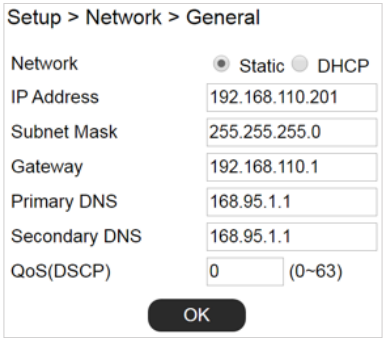


Section 4.4: Network

Section 4.4.1: General

Network settings are the basic settings that connect the IP cameras to the network. The default IP address of IP cameras is 192.168.0.200. Enter this IP address into your web browser to verify the network connection between a local PC and your IP camera.

To set up a local area network, enter the IP address, subnet mask, gateway, and DNS. Click OK to update the settings.



To acquire Internet access, contact your local Internet Service Provider (ISP) for a global IP address. Enter the IP address (global), subnet mask, and gateway IP provided by your ISP.

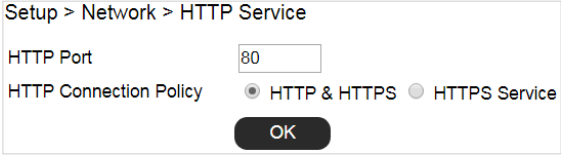
- **Primary DNS:** The IP address of the default and first DNS server
- **Secondary DNS IP Address:** The IP address of the backup and second DNS server to the default DNS
- **QoS(DSCP):** Based on DSCP standard, set the TCP/IP packet header for packet priority.

When using DHCP there is no need to manually configure the IP address, subnet mask, and gateway. However, every time the DHCP service is rebooted, the IP address of the IP camera may change and you may need to use IPscan to search for the IP camera. To enable DHCP, click the DHCP option and click Submit.

Note: Once the DHCP option is enabled, the IP camera is assigned an IP address by the DHCP server. This feature is only permitted in LAN environments.

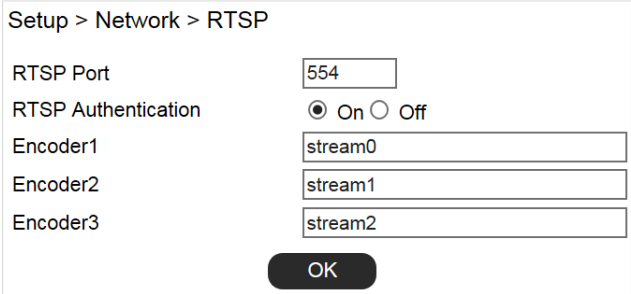
Section 4.4.2: HTTP Service

HTTP is a reliable protocol for video streaming. With correct port forwarding, video can be sent over the Internet. Details are described in the appendix. To change the HTTP port number, consult your network administrator. Choose the streaming type you want to use (HTTP & HTTPs or HTTPs). Click OK for the changes to take effect.



Section 4.4.3: RTSP

RTSP is another reliable protocol for video streaming. With correct port forwarding, videos can be sent over the Internet. Details are described in the appendix.



Settings on this page are described below:

- **RTSP Authentication:** Enabling this option will require username and password when connecting to the RTSP stream
- **Encoder:** Change encoder name.

Section 4.4.4: HTTPS Service

The IP camera support HTTPS (Hypertext Transfer Secure Protocol) service. HTTPS is an Internet protocol that ensures the integrity and confidentiality of data as it travels between users' computers and websites.

HTTPs can be regarded as the advanced security version of HTTP. The SSL protocol is added as a security certificate. Therefore, the website can prevent a data thief from directly seeing the transmitted data.

There are two options to set HTTPs service:

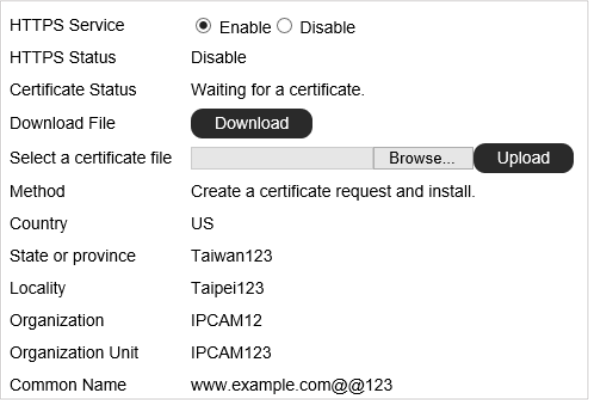
1. The first option is to create a free self-signed certificate by filling-in the blank field below, then click **Create a Certificate.**

A pop up message will display:

Then, you will notice that the Certificate Status has changed from **Not Installed** to **Active.** Click **OK** to activate the HTTPS functionality; the **HTTPS Status** will have changed from **Disable** to **Enable**.

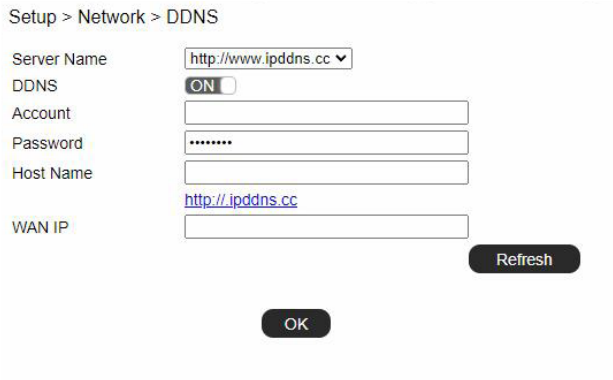
This IP Camera may now be connected to via HTTPS protocol with your browser.

2. The second option is to purchase an SSL certificate by selecting **Create a certificate request and install**. After purchasing the SSL certificate from a third party company, browse your computer to upload the SSL certificate. If it is successful, the **Certificate Status** will have changed from **Not Installed** to **Active**. And **HTTPS Status** will have changed from **Disable** to **Enable**.



Section 4.4.5: DDNS

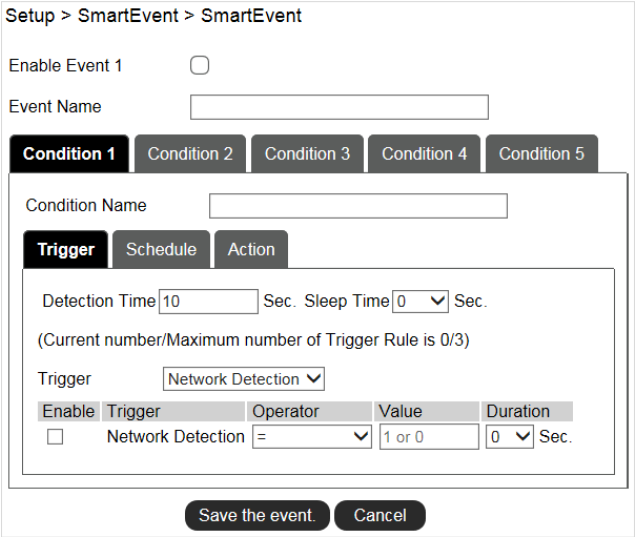
The DDNS service allows you to automatically update the DNS server. Capture by ADI IP cameras and NVRs come with access to a free DDNS service- ipddns.cc.
Click OK for the changes to take effect.



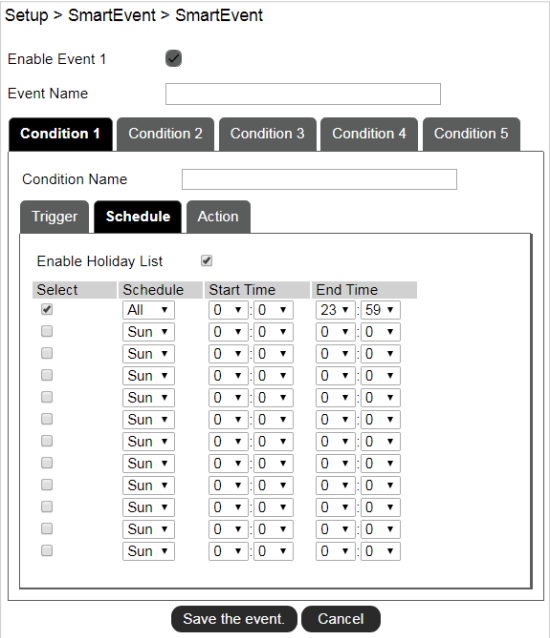
Note: DDNS requires Internet connection.

Section 4.5: SmartEvent

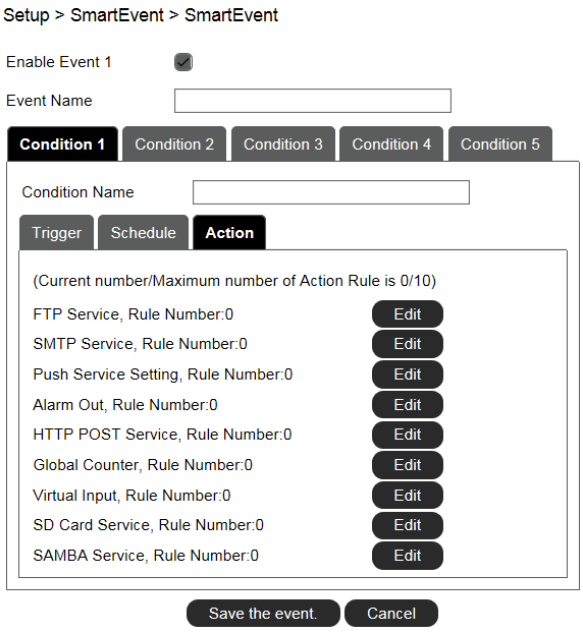
Here you can configure the detection settings for alarms, global counters, virtual inputs, meta data and network failure. Choose an event type for entering the event name and event condition for triggering an alarm. Click **Save the event** button to save the event.



The following page allows you to choose the action to take when the chosen events are detected, such as sending JPEG images to an FTP server or an email account. To schedule event monitoring, choose **Schedule** when you edit an event and highlight the time periods you want the camera to detect events. Click **Save the event** button to update the settings.



Click **Action** to select the outputs for event triggering.

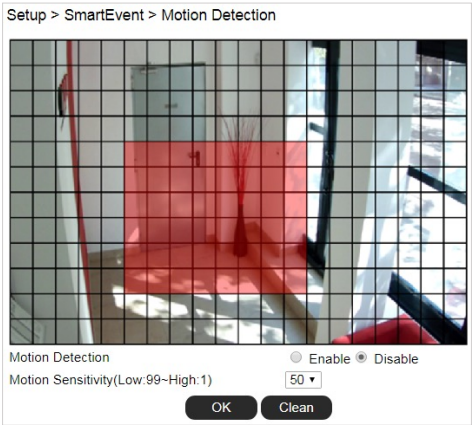


- **FTP Service:** Mail event snapshots to an FTP server.
- **SMTP Service:** Mail event snapshots to an SMTP server.
- **Push Service Setting:** When the alarm is triggered, can send push notification to specified iOS and Android devices.
- **Alarm Out:** Trigger the digital output of the IP camera (if available).
- **HTTP POST Service:** Send notification snapshots to a specified website when alarm is triggered.
- **Global Counter:** To set a value between 0 and 65,535 or add value range from -99 to 99.
- **Virtual Input:** Enable or disable a specific virtual input among the 16 sets.
- **SD Card Service:** When the alarm is triggered, the screenshot is saved to the SD card.
- **Samba Service:** Set to send data of the selected encoder profile to the predefined samba server.

Note: To activate SmartEvent / Action setting, please also configure corresponding action in **Controls** setup page or **Notification** setup page.

Section 4.5.1: Motion Detection

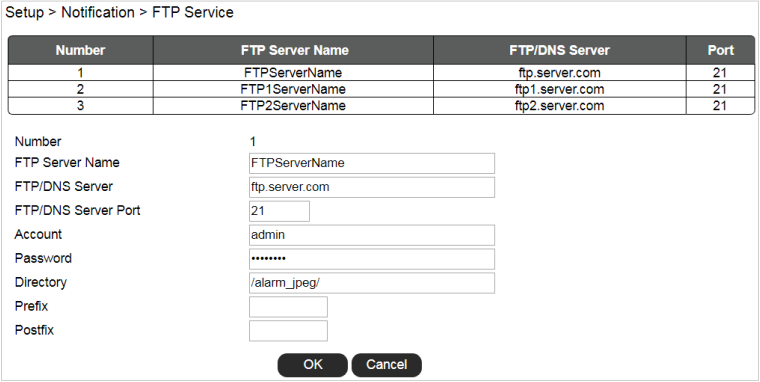
All Capture by ADI cameras provide a motion detection feature. Click on Motion Detection to determine the areas to monitor. Simply double-click or drag across the areas you want to monitor, cancel your selection by double-click again or drag across the areas you don't want to monitor with the right mouse button. Click OK to update the settings. The red highlighted area is the motion zone.



Section 4.6: Notification

Section 4.6.1: FTP Service

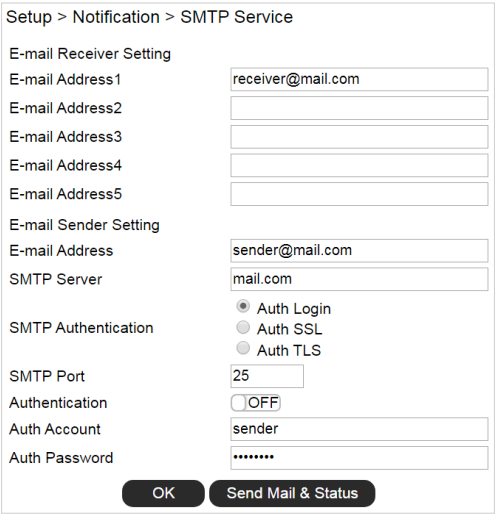
Enter the required FTP information to send alarm snapshots to an FTP server.



- **FTP Channel:** There are three FTP servers that can be configured.
- **Number:** The number of FTP service.
- **FTP Server Name:** The name of the FTP server.
- **FTP/DNS Server:** The FTP server's address.
- **FTP/DNS Server Port:** The FTP server's port number.
- **Account:** The account name to log in to the FTP server.
- **Password:** The password of the account.
- **Directory:** The file path for storing the JPEG snapshots.
- **Prefix:** The prefix of the JPEG filename.
- **Postfix:** The postfix of the JPEG filename.
- **File Format:** The JPEG file format based on different JPEG encoder.

Section 4.6.2: SMTP (Email) Service

For alarm notification with JPEG snapshots, enter the required information to enable this Email notification service.

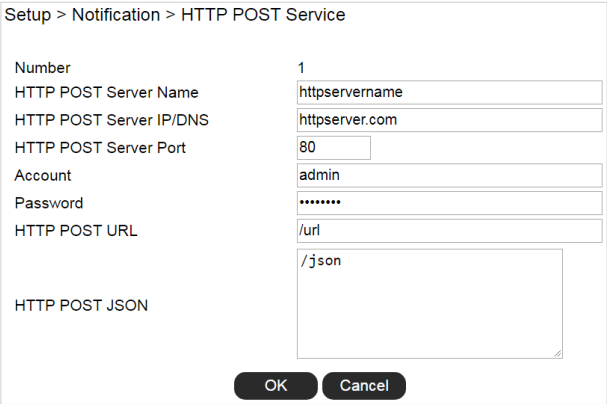


- **Receiver E-mail Address:** Address of receiving mailbox.
- **Sender E-mail Address:** Address of sending mailbox.
- **SMTP Server:** Enter the address of mail server.
- **SMTP Authentication:** Select authentication type
- **SMTP Port:** The default port number is 25 (mail server port).

- **Authentication:** Enable or disable mail service
- **Auth Account:** User name of the mail server
- **Auth Password:** Password of sending mailbox.

Section 4.6.3: HTTP POST Service

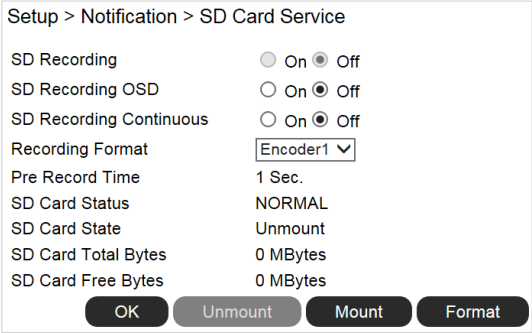
Through the POST protocol, the camera can automatically send HTTP posts to a website if an alarm is triggered.



- **HTTP POST Server Name:** The HTTP POST server
- **HTTP POST Server IP/DNS:** The IP/DNS address of the HTTP Post server
- **HTTP POST Server Port:** The port number of the HTTP Post server
- **Account:** The account
- **Password:** The password
- **HTTP POST URL:** The CGI command to send HTTP POST
- **HTTP POST JSON:** The JSON text editor

Section 4.6.4: SD Card Service

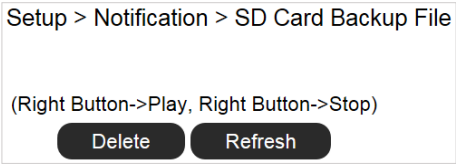
Ensure an SD card is properly installed in the camera before you enable the SD recording option. The camera will start recording videos when an alarm occurs.



Warning: Click **Unmount** before removing the SD card, or the system may crash.
Note: Please check that your camera model is SD card compatible. This will be noted on the product specification sheet.

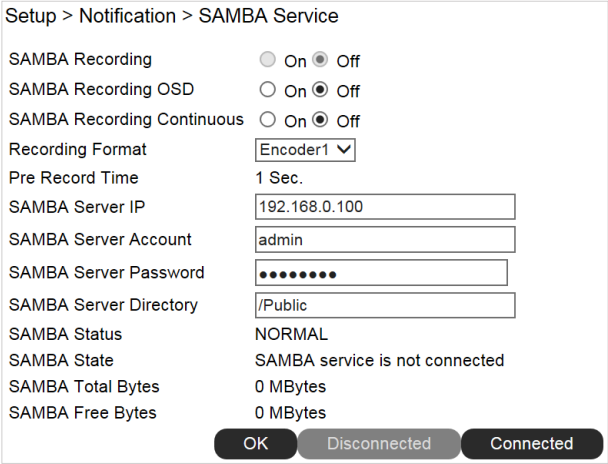
Section 4.6.5: SD Card Backup File

To download a specific clip, right-click the file you want to download and save the AVI file to a local PC.



Section 4.6.6: Samba Service

The streaming of the camera can be recorded as AVI files to a Samba server. Continuous and pre-alarm recordings are available. To do so, provide required information for Samba service. Circular recording is available for overwriting the oldest recording files if the Samba server becomes full.



- **Samba Recording:** Enable Samba recording service.
- **Samba Recording OSD:** Timestamp OSD on the AVI files.
- **Samba Recording Continuous:** Enable/disable Samba continuous recording.
- **Recording Format:** The resolution of the AVI files.
- **Pre-record Time:** Pre-alarm recording based on the alarm settings.
- **Samba Server IP:** The IP address of the Samba server.
- **Samba Server Account:** The account of the Samba server.
- **Samba Server Password:** The password of the Samba server.
- **Samba Server Directory:** The target path of the recordings on the Samba server.
- **Samba Status:** The system status of the Samba server.
- **Samba State:** The connection status of the Samba server.
- **Samba Total Bytes:** The storage size of the Samba server.
- **Samba Free Bytes:** The free storage size of the Samba server.

Section 4.7: Maintenance

In the Maintenance page, you can click **Load Default** to restore the camera to factory settings, with options to maintain your Network Settings (**Initialize without Network Settings**) or back to Factory settings (**Initialize All Settings**).

Click **Reboot System** to restart the camera.

To export camera settings, click on **Export Config File** for other cameras.

Click on **Import Config File** for importing camera settings.

To update the firmware of your IP camera, click **Browse** and locate the update file. Click **Submit** to start the firmware update.

Warning: Never disconnect the power during a firmware update as this could cause irreversible damage to your device.

Note: If you forget your password, please contact ADI technical support.

Appendix

DDNS Network Settings

One of the advantages of adopting DDNS and PPPoE services is to save the cost of renting a global IP address. When you power on a camera with a video server and connect to the Internet with the PPPoE service, the camera asks your ISP for a dynamic global IP address. This Internet-accessible IP address will be renewed by the ISP every time you log on the Internet.

Whenever the IP is changed, the camera with the video server will notify the DDNS server of your new IP address. A remote user who intends to connect to the camera with the video server can enter the domain name in the web browser. The domain name will be translated to a new IP address to be used by the camera.

Advanced Port Forwarding Technology

Communication port forwarding technology has been widely used to share a global Internet IP to other devices on the network. An example is: port 80 of the IP router is forwarded to the device with an IP of 192.168.0.10, and the port 81 of the router is forwarded to the device with an IP of 192.168.0.11. When a remote PC on the Internet tries to access the port 81, the user is actually accessing 192.168.0.11, a private IP given by the router.

Restore to Factory Default

To restore the IP camera to the factory default, follow the below procedure:

1. Ensure your camera is plugged into a known working power source and allow the device time to start up. Trigger the reset following the below methods:

CAP5R4052A	Short the Reset cable for **30 seconds then release.**
CAP5R4152A	Short the Reset cable for **30 seconds then release.**
CAP5R4252AX	Press and hold the Reset button for **30 seconds then release.**
CAP5R6452X3	Press and hold the Reset button for **30 seconds then release.**
CAP5R6552X	Short the Reset cable for **10 seconds then release.**
CAP5R8952X3	Press and hold the Reset button for **30 seconds then release.**
CAP5R9152A	Press and hold the Reset button for **30 seconds then release.**
CAP5R9252AX	Press and hold the Reset button for **30 seconds then release.**

2. The camera will restart.
3. Launch to IPScan Utility to search for the IP camera.
4. Access the IP camera via an Internet browser.
5. Due to security reasons, you will be asked to create the username and password upon first login. Press **Confirm** to complete the setting and login simultaneously.