



Network Camera

Brickcom Software User's Manual

Brickcom Matrix

CB-Series

CB-100Ap, CB-100Ae, CB-101Ap, CB-101Ae, CB-102Ap, CB-102Ae

WCB-100Ap, WCB-100Ae

WCB-500Ap, WCB-400Ap, WCB-300Ap, WCB-200Ap, WCB-130Ap

CB-500Ap, CB-400Ap, CB-300Ap, CB-200Ap, CB-130Ap

WCB-502Ap, WCB-402Ap, WCB-302Ap, WCB-202Ap, WCB-132Ap

CB-502Ap, CB-402Ap, CB-302Ap, CB-202Ap, CB-132Ap

FB-Series

WFB-100Ap, WFB-100Ae, WFB-130Ap, WFB-130Np, WFB-300Ap

FB-100Ae, FB-100Ap, FB-130Ap, FB-130Np, FB-300Ap

MD-Series

MD-500Ap, MD-400Ap, MD-300Ap, MD-200Ap, MD-130Ap, MD-100Ae, MD-100Ap

MD-130Np, MD-200Np, MD-300Np

FD-series

FD-500Ap, FD-400Ap, FD-300Ap, FD-200Ap

FD-100Ae, FD-100Ap, FD-130Ap, FD-130Np

FD-302Np, FD-202Np

VD-Series

VD-100Ae, VD-100Ap, VD-130Ap, VD-130Np

VD-500Ap, VD-400Ap, VD-300Ap, VD-200Ap

VD-500Af, VD-400Af, VD-300Af, VD-200Af, VD-130Af, VD-100Af

VD-302Np, VD-202Np

OB-Series

OB-100Ae, OB-100Ap, OB-130Np

WOB-100Ae,WOB-100Ap,WOB-130Np

GOB-100Ap,GOB-130Np

OB-500Ap, WOB-500Ap, GOB-500Ap

OB-502Ap,OB-402Ap,OB-302Ap,OB-202Ap

WOB-502Ap,WOB-402Ap,WOB-302Ap,WOB-202Ap

GOB-502Ap,GOB-402Ap,GOB-302Ap,GOB-202Ap

OB-500Af,OB-400Af,OB-300Af,OB-200Af,OB-130Af,OB-100Af

OSD-Series

OSD-040D/E

PT-Series

PZ-040D/E



Product name:	Network Camera
Release Date:	2012/03/27
Web site:	www.brickcom.com
Email:	support@brickcom.com info@brickcom.com

Feature		Model Name
Live View		All Series
Camera/Video/Audio	Camera	All Series
	Video	All Series
	Audio	All Series
	Multicast	All Series
	Privacy Mask Control	CB Series Professional
Camera Control	Preset Point	OSD-040 Series
	Privacy Mask	PZ-040 Series
	Patrol Settings	
Network	IP Settings	All Series
	UPnP	All Series
	EasyLink	All Series
	Wireless	Wireless model
	3G	3G model
	HTTP/HTTPS	All Series
Event	Event Settings	All Series
	Motion Detection	All Series
	PIR	CB Series Professional
	Audio Detection	Except MD-100Ae
	Video analytics	Only available for models with the feature of the video analytics
Notifications	FTP Settings	All Series
	E-mail Settings	All Series

	Samba Settings	All Series
	HTTP Settings	All Series
	Digital Output (DO)	This function only available for the models with a Do terminal
	Video Clip	All Series
	Audio Clip(*)	This function only available for models with a audio in or build-in MIC
	LED Light(*)	CB- Series Professional
System	System Log	All Series
	Date and Time	All Series
	Device Information	All Series
	Storage Management	This function only available for models with a SD slot.
	LED Indicators	All Series
Maintenance	User Management	All Series
	Language	
	IP Filter	
	Firmware Upgrade	
	Configuration	
	Reset to Default	
	Reboot	

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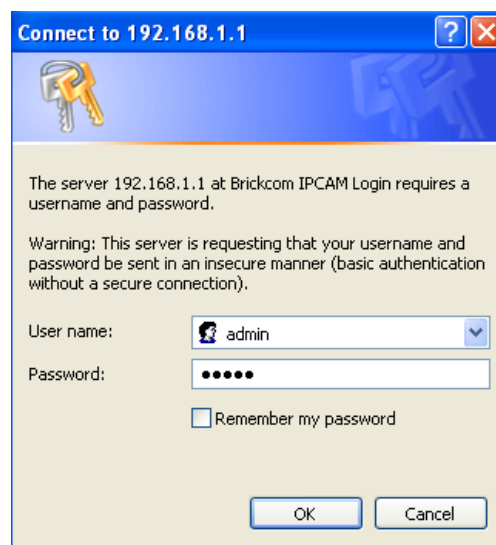
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Authentication

To access the camera's live view, open a web browser and enter the IP address of the camera. A dialog window will pop requesting a username and password. As stated on the previous page, for the default username and password for the Administrator are assigned as "**admin/admin**". For accounts other than the administrator's account, the user can choose to remember the password for future convenience. It is not recommended to check this box when viewing the camera feed from a public computer.



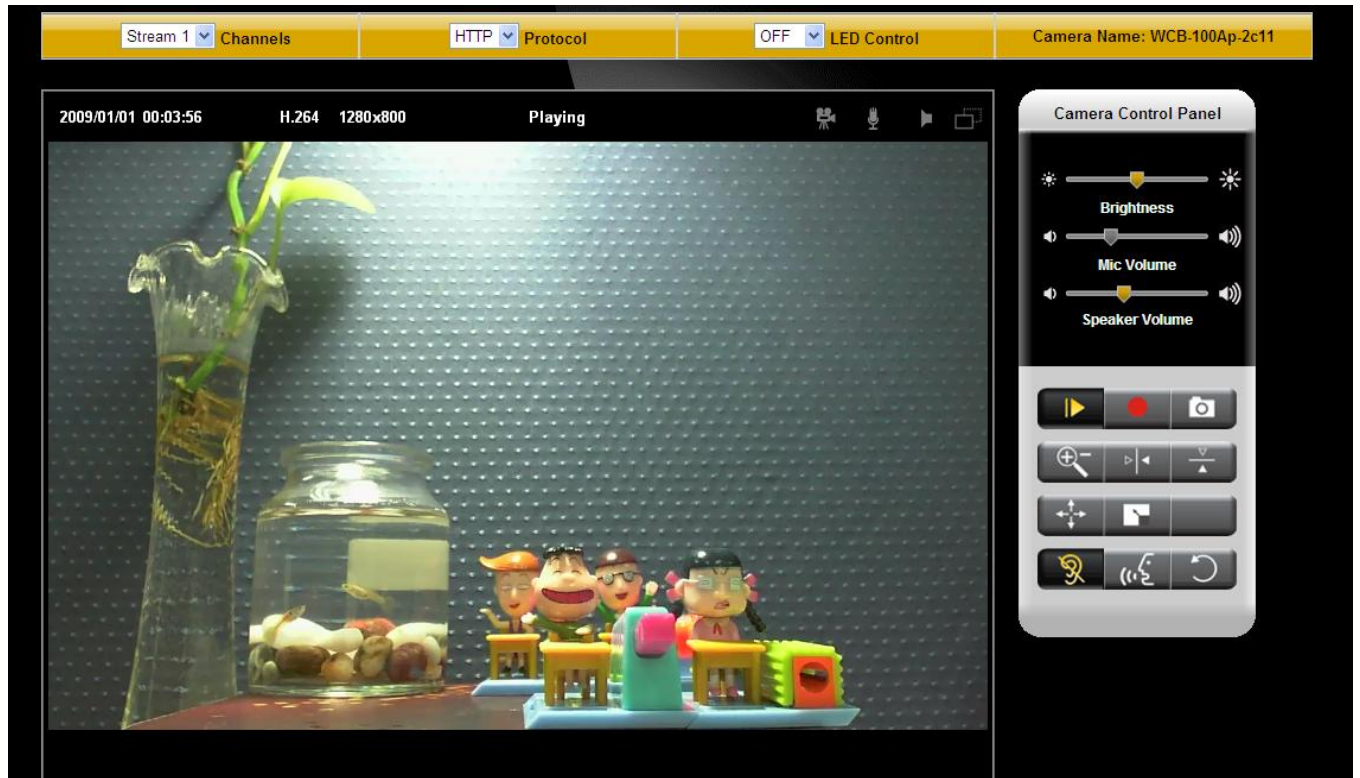
Installing the Plug-In

For the initial access to the camera in Windows, the web browser may prompt the administrator for permission to install a new plug-in for on Internet Explorer. Permission request depends on the Internet security settings of the user's PC or notebook. If the highest security level is set, the computer may prohibit any installation and execution attempt. This plug-in has been registered for certificate and is used to display the video in the browser. Click on  to proceed. If the web browser does not allow the administrator to continue the installation, check the Internet security option and lower the security levels or contact the networking supervisor or IT for help.



NOTE – If an error occurred or the plug-in fails to install, it is because the version of the Electronic Signature is newly released and the VeriSign has not been submitted to Microsoft Windows update for validation. Therefore, plug-in will not have its root certificate. If IE discovers that there is no root certificate after the user's PC connects to the camera, it will automatically redirect to VeriSign Web site to download and install the latest root certificate to make the installation successfully. If the user's computer is able to connect to camera but unable to access the internet, then the installation will fail because the computer will not be able to download the latest root certificate. This problem can be resolved if computer can be connect to the internet and the camera at the same time and will not recur when Windows update patches become available.

Live View



NOTE - (*) These are optional features. Please refer to the Product List for the full list of optional features available for the product.

Live View is the default page that opens when accessing the camera. Live video is displayed directly in the browser window.

- ***Stream 1~3 Channels***

The network camera offers simultaneous several streams for optimized quality and bandwidth. Go to Configuration → Camera/Video/Audio → Video to configure the codec compression and video resolution or refer to the Video configuration page.

- ***HTTP/TCP/UDP protocol***

HTTP – This unicast method can be used to traverse firewalls. Firewalls are commonly configured to allow the HTTP protocol, thus allowing RTP to be tunneled.

TCP - This protocol guarantees the complete delivery of streaming data and provides better video quality. The downside of using this protocol is that the quality of its real-time effect is less than that of the UDP protocol.

UDP - This protocol allows for more real-time audio and video streams. However, network packets may be lost due to network burst traffic and images may be broken. Activate UDP connection time-sensitive responses are more important than video quality.

LED Control(CB-series Professional only) – Use the drop-down menu to adjust the brightness of the camera's LED.



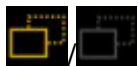
Recording on/off - Displays the status of recording video



MIC on /off - Displays the status of the MIC volume



Speaker on/off - Displays the status of the Speaker



MD on/off - Displays the status of Motion Detection

- **Brightness** - Drag the slider bar to adjust the image brightness level.
- **Mic volume** - Drag the slider bar to adjust the microphone volume.
- **Speaker volume** - The built-in speaker will play sound from an audio clip from the computer microphone when it is enabled.

For more Audio settings, please refer to the Audio configuration page.



Player Stop - Play or stop the video.



Recording - Record video and save the video clip to the local PC.



Snapshot – Take a picture and save the image to the local PC.



Digital Zoom - Enable the digital zoom operation.



Mirror - Horizontally reflect the display of the live video.



Flip - Vertically reflect the display of the live video.



Real Size - View the object in real size. Press it again to switch back to normal mode.



Full Screen - Switch to full screen mode. Press the “Esc” key to return to normal mode.



Motion Detection Alert - Enable the motion detection alert function.



Mute – Turn off the sound.



Talk(*) – To communicate through the camera using the computer MIC.



Set Default – Reset to default settings.

PTZ Control(OSD-040,PZ-040 only).



Patrol - Enable the patrol function. If a designated patrol has not been set for that time period, the first patrol group on the patrol list will be enabled.



Pan/Tilt Control - Click on the arrows to pan and tilt the camera. Click the center of icon to return to the home position.



Joystick Mode – Scroll over the live view window to move the camera view in the direction of the mouse pointer.

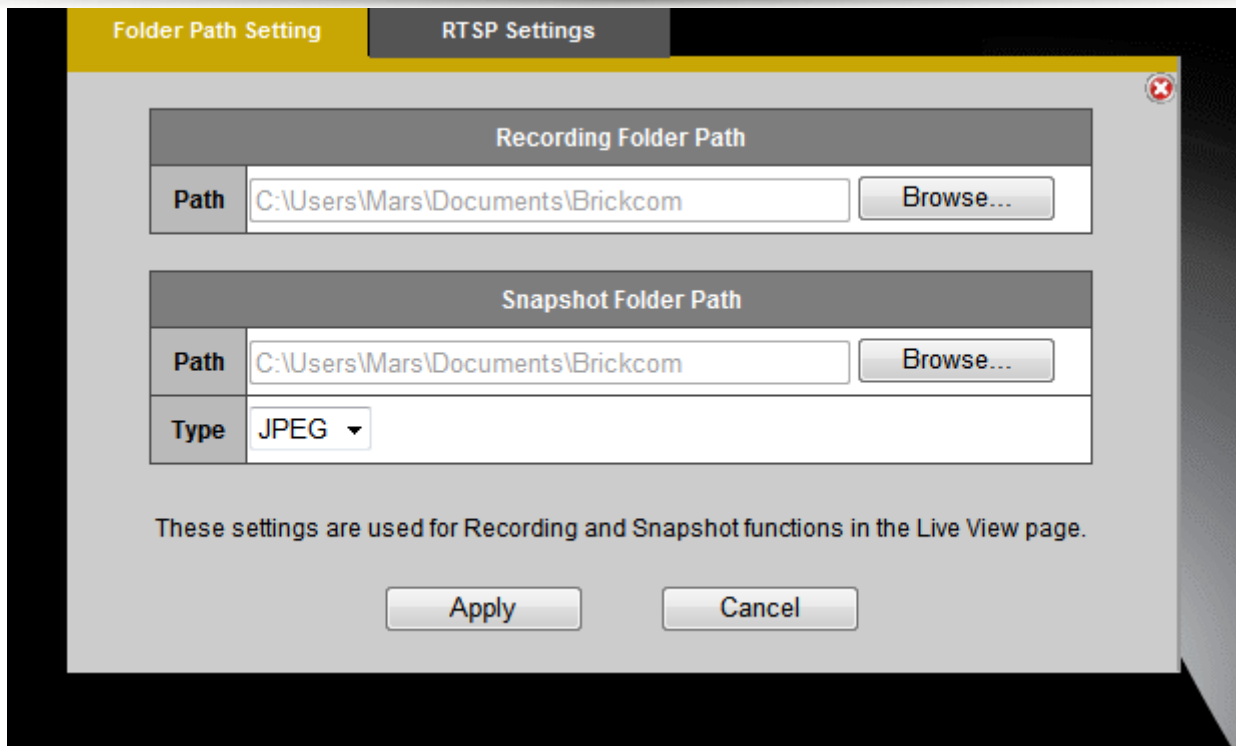


Center Mode - Click on a point in the live view window to center the camera view on that point.



To specify the path that the video clip or snapshot be saved in the local PC.

(This function only for firmware V3.2.0.x or higher version)



Recording folder path - The destination for saving the recording video files. Click Browse to specify the saving path.

Snapshot folder path - The destination for saving the snapshot files. Click Browse to specify the saving path and select the format from the drop-down menu.



NOTE

1. The <Camera Control Panel> functions have no effect on the recorded video. Whatever changes are made to the <Camera Control Panel> **will not** be applied to the recorded video.

Configuration

Click <Configuration> on the main page to change the camera settings pages.



NOTE - Only Administrators can access the Configuration page.

Camera/Video/Audio

Camera

Profile – Up to five profiles can be created for different lighting environments. Day and night are default profiles and users can create up to three additional profiles. Select a profile from the drop-down menu or select different icons to change profile settings.

Name – Profile Name

Brightness - Drag the bar to adjust the image brightness level from -5 to +5.

Contrast - Drag the bar to adjust the image contrast level from -5 to +5.

Sharpness - Drag the bar to adjust the image sharpness level from -5 to +5.

Saturation - Drag the bar to adjust the image saturation level from -5 to +5.

Exposure Control

Auto: The camera will automatically control exposure.

Manual: Select this option to define the exposure manually

Metering Option - Center-weighted average metering.

Flicker-Free – Eliminates the problem of flicker.

De-Noise

Auto - The camera will automatically filter the frame-to-frame defects to reduce the visual impact of blur.

The De-noise can be set between 1 to 3, with 3 giving the best video resolution.

Mirror and Flip

Mirror - Enable to horizontally reflect the display of the live video.

Flip - Enable to vertically reflect the display of the live video.

IR Cut (*) (This function only available for models with a IR Cut) – Deactivate or activate the IR cut filter

Color Effect - Select to display color or black and white video streams.

White Balance - White balance is a camera setting that adjusts for lighting in order to make Black & white.



Profile Management: Profiles can be scheduled to change at scheduled times or under different lightening changes.

The screenshot shows the 'Profile Management' window with the 'Always' radio button selected. Below it, a dropdown menu is set to 'Day'. At the bottom, there are 'Apply' and 'Cancel' buttons.

Always- Select Always to use a single profile. Select the profile from the drop down menu.

The screenshot shows the 'Profile Management' window with the 'Day&Night' radio button selected. It features two dropdown menus for 'Day Profile' (set to 'Day') and 'Night Profile' (set to 'Night'). Below these are two text fields: 'Switch to Day profile if the detected value is higher than 40 for 5 Second' and 'Switch to Night profile if the detected value is lower than 10 for 5 Second'. A light sensor icon and a slider are also present, with a 'Current value detected: 155' label. At the bottom, there are 'Apply' and 'Cancel' buttons.

Day & Night (*) (This function only available for models with a light sensor) - Select Day & Night to schedule two profiles for day and night. Select profiles from the drop down menu for the Day and Night Profiles.

The screenshot shows the 'Profile Management' window with the 'Schedule' radio button selected. It displays a weekly schedule grid with columns for 0:00, 6:00, 12:00, 18:00, and 24:00. The grid shows 'Day' (white) from 0:00 to 6:00 and 'Night' (blue) from 6:00 to 18:00, with 'Day' (white) from 18:00 to 24:00. A legend on the left lists 'Day' (white), 'Night' (blue), 'Sunset' (yellow), 'User1' (green), and 'User2' (red). At the bottom, there are 'Apply' and 'Cancel' buttons.

Schedule – Select Schedule to schedule specific time periods for different profiles.

The screenshot shows the 'Profile Management' window with the 'Schedule' tab selected. It features four radio buttons: 'Always', 'Day&Night', 'Schedule', and 'Digital Input'. The 'Digital Input' option is selected. Below the radio buttons, there are two dropdown menus for 'High profile' (set to 'Day') and 'Low profile' (set to 'Night'). To the right of these dropdowns, there are two lines of text: 'this profile will trigger the actions when the DI status is high.' and 'this profile will trigger the actions when the DI status is low.'. Below these, it says 'Current status: High'. At the bottom, there are 'Apply' and 'Cancel' buttons.

Digital Inputs (*) (This function only available for models with a DI terminal) - Select Digital Input to have the profile management controlled by an external sensor. Select profiles from the drop down menu. Profiles will change according to different trigger voltage levels.

Click **Apply** to apply settings or **Cancel** to cancel changes.

Video

The Network Camera offers several separate streams for different viewing options.

The screenshot shows the 'Stream' configuration window. It has three tabs: 'Stream', 'Video Overlay', and 'RTSP Server'. The 'Stream' tab is active. It displays two sections for 'Stream 1' and 'Stream 2'. Stream 1 settings include: Video Codec (H.264), Video Resolution (1920x1080), Frame Rate (30), Bitrate Mode (Constant Bitrate), Bitrate (4000 Kbps, with a range of 64~12000), and Quality (3). Stream 2 settings include: Enable (checked), Video Codec (MJPEG), Video Resolution (1920x1080), and Frame Rate (15).

Stream

Video Codec - The Network Camera offers three choices of video codec standards for real-time viewing: H.264, MPEG-4 and MJPEG.

Video Resolution - Select from the drop-down menu to choose the best resolution for your application.

Frame Rate - Select the frame rate from drop-down menu. When selecting from Video Codec option, the frame rate ranges from 1 to 30 fps. Set a higher frame rate for smoother video quality.

Video quality and bit rate - Choose either “quality” or “bitrate” to control the video quality for the video codec of H.264/MPEG4. Only “quality” can be chosen when video codec at MJPEG is selected. Set the bitrate higher for a better video quality.

Recording Stream - Select recording stream source in Auto/Stream1/Stream2 of live streams from the drop-down menu.

Transport (This function only for firmware V3.1.0.x only)

RTP: The Real-time Transport Protocol (RTP) defines a standardized packet format for delivering audio and video over IP networks.

RTP with Quantization Table Header : Choose this option to explicitly include JPEG quantization table in the RTP stream [RFC 2435, section 3.1.8].

HTTP Transport : If MJPEG is used for Video Codec, HTTP Transport protocol must be enabled to remotely access the video stream.



NOTE - a higher bitrate will use higher network bandwidth. The video quality can be set between Level 1 to Level 6, with Level 6 producing the best image quality.



NOTE – HTTP Transport is for non-IE browser used only.

Click **Apply** to apply settings or **Cancel** to cancel changes.



Video Overlay

Stream		Video Overlay		RTSP Server	
Timestamp					
Enable	<input type="checkbox"/>				
Position	Left-Top ▼				
Format	YYYY/MM/DD HH:MM:SS ▼				
Text					
Enable	<input type="checkbox"/>				
Position	Left-Top ▼				
Text	<input type="text"/>				
<div>Apply</div> <div>Cancel</div>					

Timestamp

To display the date and time on the screen during live view, check “Enable” to enable the timestamp function and select the display position from the drop-down menu.

Format: YYYY-MM-DD. If Timestamp enable is selected, select the Date Format from the drop-down menu.

Text

To make a note about the camera, check “Enable” and select the display position from the drop-down menu. Enter a video description in the text box.

Click **Apply** to apply settings or **Cancel** to cancel changes.



NOTE - The video overlay will only take effect in stream 1.

RTSP Server

Stream	Video Overlay	RTSP Server	Save File Folder	Advanced Settings				
<div>RTSP Server</div> <table> <tr> <td>Port</td> <td>554</td> </tr> <tr> <td>Authentication</td> <td>NONE ▼</td> </tr> </table>					Port	554	Authentication	NONE ▼
Port	554							
Authentication	NONE ▼							
<div>RTP/RTCP</div> <table> <tr> <td>RTCP Mode</td> <td>Without SR ▼</td> </tr> </table>					RTCP Mode	Without SR ▼		
RTCP Mode	Without SR ▼							
<div>Apply Cancel</div>								

To utilize RTSP authentication, the user must first set a password for the camera.

RTSP (Real-Time Streaming Protocol) controls the delivery of streaming media. By default the port number is set to 554.

Authentication - Depending on the network security requirements, the camera provides two types of security settings for streaming via RTSP protocol: NONE and DIGEST. If DIGEST authentication is selected, user credentials are encrypted using MD5 algorithm, thus providing better protection against unauthorized access.

RTP/RTCP

RTCP without SR - RTCP without SR (Sender Report) is the default option. Under this option, audio and video received from the IP camera are played immediately and independent of each other.

RTCP with SR - RTCP with SR option allows synchronization between video and audio on live viewing. Choose this option if audio and video become unsynchronized. Click Apply to apply settings or Cancel to cancel changes.

Save File Folder. (This function only for firmware V3.1.0.x only)

Recording folder path - The destination for saving the recording video files. Click Browse to specify the saving path.

Snapshot folder path - The destination for saving the snapshot files. Click Browse to specify the saving path and select the format from the drop-down menu.

Advanced Settings (This function only for firmware V3.1.0.x only)

Video usability information (VUI)- Enable this feature to insert extra information into the bitstream to enhance the use of the video for a wide variety of purposes.

Sequence Parameter Set (SPS) & Picture Parameter Set (PPS)-

Enable or disable SPS and PPS in the H.264 packet. Sequence parameter sets (SPS), which apply to a series of consecutive coded video pictures called a coded video sequence, and Picture parameter sets (PPS), which apply to the decoding of one or more individual pictures within a coded video sequence.

Click **Apply** to apply settings or **Cancel** to cancel changes.

Audio

The administrator can set up several streams for the camera for different viewing devices. The administrator can enable or disable the audio function on either stream. If audio enable is selected, select the Audio codec from the drop-down menu.

The screenshot shows the 'Advanced Settings' tab in the Brickcom interface. It features two sections for 'Stream 1' and 'Stream 2'. Each section contains an 'Enabled' checkbox and an 'Audio Codec' dropdown menu. Both checkboxes are currently unchecked, and both dropdown menus are set to 'G.711'. At the bottom of the form, there are 'Apply' and 'Cancel' buttons.

Stream 1	
Enabled	<input type="checkbox"/>
Audio Codec	G.711

Stream 2	
Enabled	<input type="checkbox"/>
Audio Codec	G.711

Apply Cancel

Advanced Settings

Stream	Advanced Settings
Camera MIC	
Volume	-0db
Camera Speaker	
Enable	<input checked="" type="checkbox"/>
Volume	50%
Echo Cancellation	
Enable	<input type="checkbox"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Camera MIC - The Network Camera supports two-way audio communication so that operators can transmit and receive audio simultaneously. By using the Network Camera's built-in microphone and an external speaker, users can communicate with people who are within range of the Network Camera.

Camera Speaker – If the speaker is enabled, select the volume from the drop-down menu.

Echo Cancellation Enabled - Enable to avoid an echo.

Click **Apply** to apply settings or **Cancel** to cancel changes.

Multicast

Multicast

Stream 1

Enabled

☐

Multicast Address

234

.

1

.

2

.

3

Port

10000

Stream 2

Enabled

☐

Multicast Address

234

.

1

.

2

.

3

Port

20000

Apply

Cancel

Multicast sends a video stream to the multicast group address and allows multiple clients to acquire the stream at the same time by requesting a copy from the multicast group address. Therefore, multicast can effectively save Internet bandwidth. The RTSP (Real-Time Streaming Protocol) controls the delivery of streaming media.

Click “Enable” to enable Multicast stream 1 or Multicast stream 2. The default value for multicast address and port are 234.1.2.3 and 10000. Use different port number for different streams. It is recommended to use the default values.



NOTE - Using the IP address of the Network Camera enables access to the video.

Example: `rtsp://192.168.1.1/channel1`

Click **Apply** to apply settings or **Cancel** to cancel changes.

Privacy Mask Control(*)

The camera is equipped with a privacy feature which allows users to mask the camera’s live view. A black screen will be displayed in place of the live view window. This application is particularly useful when the camera is being used for home surveillance. With the privacy button, the user can have privacy while they are going about their daily life.

The screenshot shows a settings window titled 'Privacy Mask Control'. It contains two main sections. The first section, 'Privacy Mask Control', has a label 'Enabled' followed by an unchecked checkbox. The second section, 'Hardware Privacy Mask Button', has a label 'Enabled' followed by a checked checkbox. At the bottom of the window are two buttons: 'Apply' and 'Cancel'.

Privacy Mask Control – Enable the Privacy Mask control to mask the whole view. (This function only for firmware V3.1.0.x only)

The screenshot shows the 'Advanced Settings' tab of the 'Privacy Mask Control' window. The main area is a large black rectangle. On the right, there is a 'Region Settings' panel. It contains four options: 'Full Screen' (checked), 'Enable Window 1' (unchecked), 'Enable Window 2' (unchecked), and 'Enable Window 3' (unchecked). At the bottom right are two buttons: 'Apply' and 'Cancel'.

Privacy Mask Control (This function only for firmware V3.2.0.x or higher version)

– Enable the Privacy Mask control to mask the certain area of the view, and up to three areas can be chosen.

Hardware Privacy Mask Button(CB-Series Professional only)

– Click to enable the privacy mask button on the camera. If this feature is not enabled, the user will not be able to use the privacy mask button.

Advanced Settings

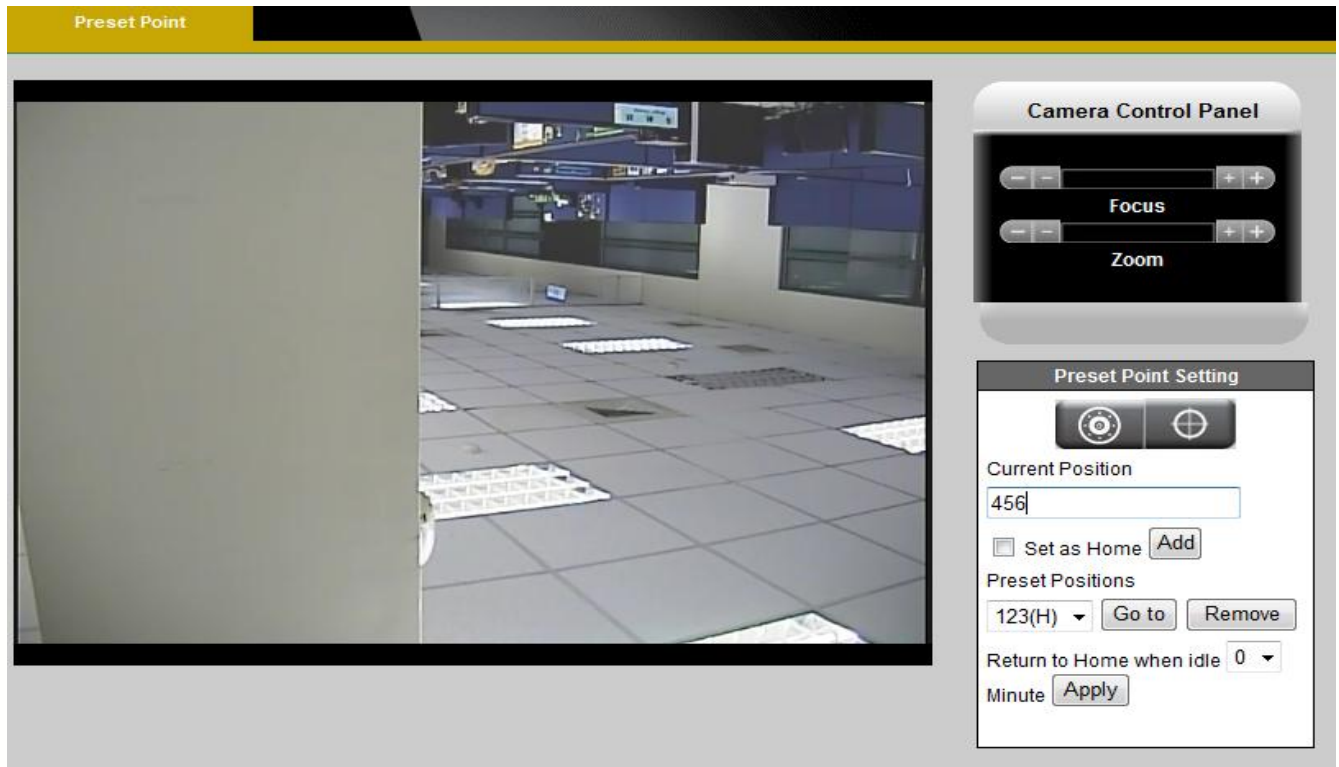
Hardware Privacy Mask Button (CB-Series Professional only*) – Click to enable that the HW button can enable/disable the feature of privacy masking. If it is not enabled, the user can't use the HW button to enable/disable the feature of privacy masking.

Click **Apply** to apply settings or **Cancel** to cancel changes.



Camera Control(*)

Preset Point



A preset position is a pre-defined camera view that can be used to quickly move the camera view to a specific location.

To create a preset position:

- Use the Pan, Tilt and Zoom (PTZ) controls to steer the camera view to the wanted position.
- Enter a descriptive name under Current Position and click **Add**.
- The camera position and focus settings will be saved as a preset position.



NOTE – A total of sixteen preset points can be set.

- Preset Positions can be assumed at any time by selecting the preset position's name from the available positions drop-down list. Only one position can be set as the **Home**.

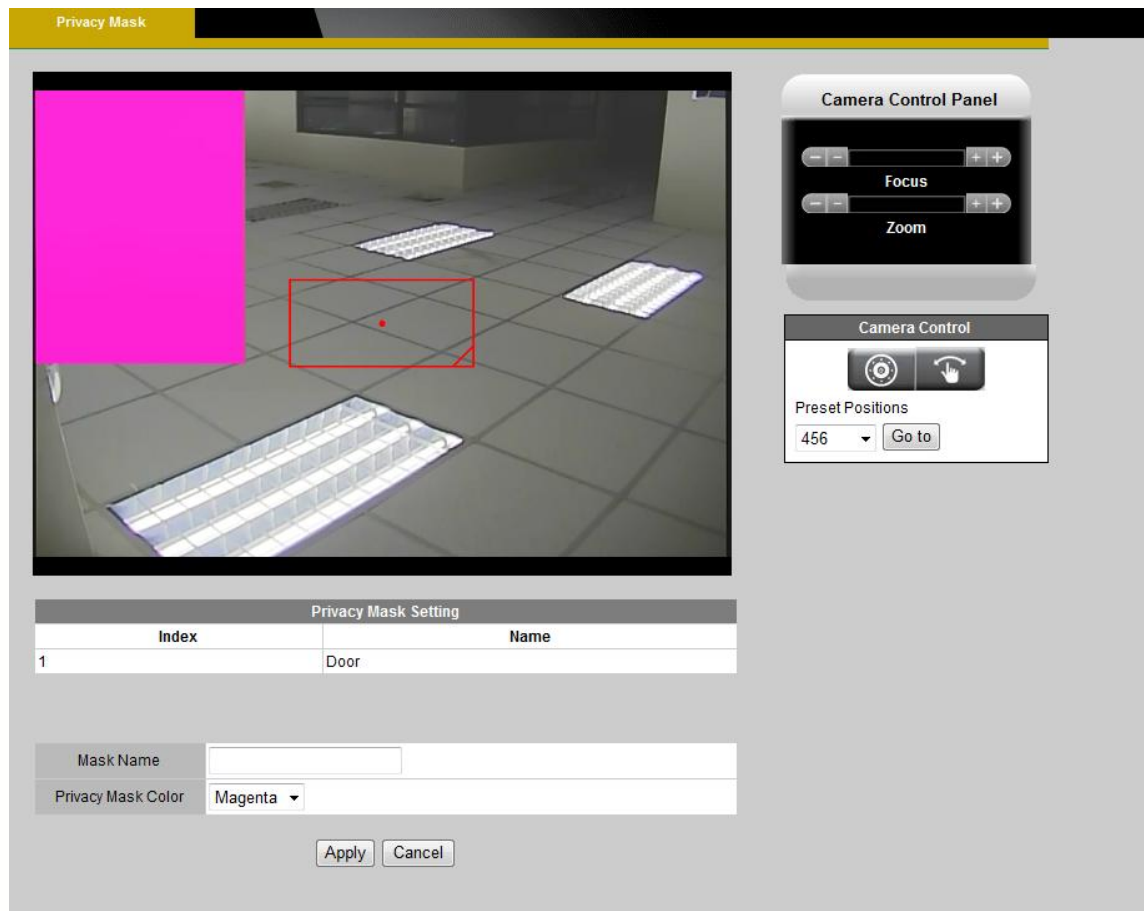


NOTE - The name of the preset point set as **Home** will have (H) added; for example, Gate (H).

e. The camera can be configured to return to the **Home** position when the camera has been inactive for a specified length of time. Select the desired length of time from the drop-down menu and click **Apply**. Setting the time to zero prevents the camera from automatically returning to the Home position.



Privacy Mask



Add / Edit Privacy mask A privacy mask can be created to conceal areas within the camera's view. The Privacy Mask List displays all the masks that are currently configured for the network camera and if they are enabled.



NOTE – A total of sixteen privacy masks can be created.

To create a new privacy mask:

- Use the Pan, Tilt and Zoom (PTZ) controls or select Preset Point from the drop-down menu to steer the camera view to the wanted position.
- Click on **Add**. A rectangle will appear on the center of the viewing window.
- Use the mouse to resize the privacy mask window.
- Enter a descriptive name in **Mask name**, choose a color from the **Privacy mask color** drop-down menu and click **Apply**.

To edit a privacy mask, select the mask and reshape, move or change the color as needed.

Patrol Settings

Patrol Settings

Description	Running
Morning	Stop

Description

Night

Preset Positions
123
456

Patrol Positions	Movement Speed	Viewing Duration	Delete
123	0 [1..100]	0 Second	
456	0 [1..100]	0 Second	

Add

Cancel

The camera can be set to patrol a group of preset points. For each patrol group, the user can configure the preset point order, movement speed, and viewing duration.

To create a patrol group:

- Click on **Add** and enter a descriptive name in **Description**.
- Add preset points to the patrol group by clicking the next to the desired preset point.
- Use the arrow buttons to change the order of the preset positions by using the Adjust the sequence of positions, and enter **Movement Speed** and **Viewing Duration** for each preset point.
- Click on **Apply** to save the patrol group.
- Enable a patrol set by clicking on **Start/Stop**.



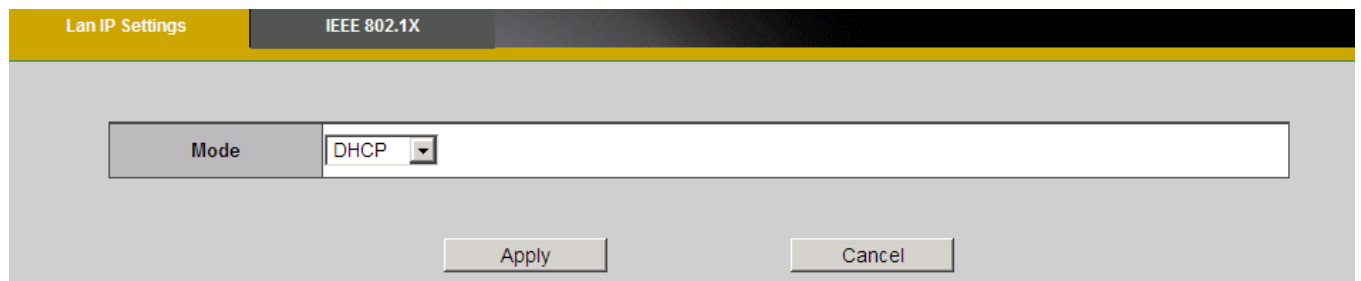
NOTE

- A total of sixteen preset points can be assigned to a patrol group.
- A total of four patrol groups can be assigned to a network camera.

Network

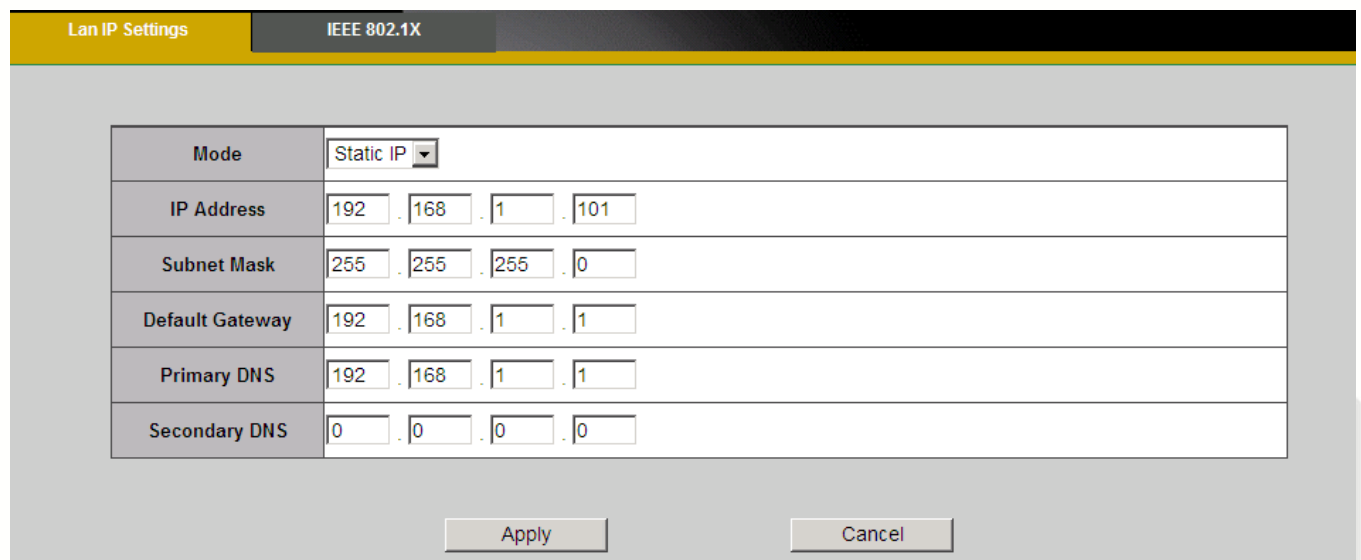
Network Settings

This section explains how to configure a wired network connection for the camera. There are several ways to setup the camera over the Internet: (1) obtain an available dynamic IP address assigned by a DHCP server, (2) use a static IP, or use PPPoE (Point-to-point over Ethernet). Select the desire setup mode from the IP settings drop-down menu.



The screenshot shows the 'Lan IP Settings' tab selected. The 'Mode' dropdown menu is set to 'DHCP'. Below the dropdown are 'Apply' and 'Cancel' buttons.

1. **DHCP** –If this option is selected, the camera will automatically obtain an available dynamic IP address from the DHCP server each time it connects to the LAN.




The screenshot shows the 'Lan IP Settings' tab selected. The 'Mode' dropdown menu is set to 'Static IP'. Below the dropdown are fields for 'IP Address', 'Subnet Mask', 'Default Gateway', 'Primary DNS', and 'Secondary DNS', each with four input boxes for the octets. Below these fields are 'Apply' and 'Cancel' buttons.

Mode	Static IP			
IP Address	192	168	1	101
Subnet Mask	255	255	255	0
Default Gateway	192	168	1	1
Primary DNS	192	168	1	1
Secondary DNS	0	0	0	0

2. **Static IP** - Select this option to manually assign a static IP address to the camera. Enter the static IP address, Subnet mask, Default Gateway, Primary and Secondary DNS provided by the ISP.

Lan IP Settings		IEEE 802.1X
Mode	PPPoE	
Username		
Password		
<input type="button" value="Apply"/>		<input type="button" value="Cancel"/>

3. **PPPoE** (Point-to-point over Ethernet): Use this mode if connecting to the Internet

through a DSL Line.  **NOTE** - To utilize this feature, it requires an account provided by an Internet Service Provider. Enter the user name and password provided by the ISP. Click **Apply** to apply settings or **Cancel** to cancel changes.

IEEE 802.1X

Lan IP Settings		IEEE 802.1X
Enable	<input checked="" type="checkbox"/>	
Protocol	EAP-TLS	
Username		
Private Key Password		
Client Certificate	<input type="button" value="Browse"/> <input type="button" value="Upload"/>	No Client Certificate uploaded
CA Certificate	<input type="button" value="Browse"/> <input type="button" value="Upload"/>	No CA Certificate uploaded
<input type="button" value="Apply"/>		<input type="button" value="Cancel"/>

IEEE 802.1X is an IEEE standard for port-based Network Access Control. It provides an authentication mechanism to devices wishing to attach to a LAN or WLAN. The camera support EAP-TLS and EAP-PEAP.

Please follow the steps:

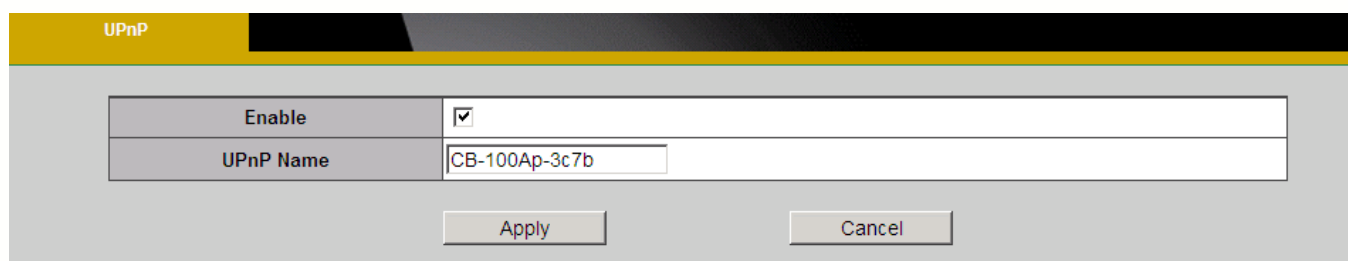
- Select EAP-PEAP or EAP-TLS.

- b. Enter your ID and password.
- c. Upload the CA certificate for your 802.1X configuration.

Click **Apply** to apply settings or **Cancel** to cancel changes.

UPnP


Universal Plug and Play (UPnP) simplifies the process of adding a camera to a local area network. Once connected to a LAN, the camera will automatically appear on the intranet. Click “Enable” to enable this function and enter an UPnP name which the camera will appear under on the intranet.

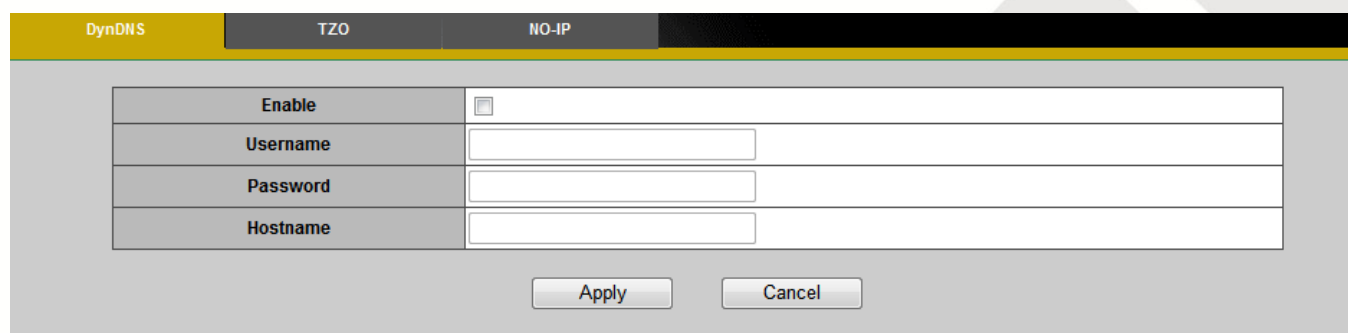


The UPnP configuration interface features a yellow header bar with the label 'UPnP'. Below the header, there is a table with two rows: 'Enable' with a checked checkbox and 'UPnP Name' with a text field containing 'CB-100Ap-3c7b'. At the bottom of the interface are two buttons: 'Apply' and 'Cancel'.

Click **Apply** to apply settings or **Cancel** to cancel changes.

DDNS (dynamic domain name service)

DDNS links a domain name to an IP address, allowing users to easily access their camera even with a changeable IP address. Brickcom network cameras are compatible with three DDNS service providers (1) DynDNS, (2) TZO, and (3) No-IP.  **NOTE** - Before utilizing this function; please apply for a dynamic domain account from a DDNS provider.



The DDNS configuration interface has a yellow header bar with three tabs: 'DynDNS', 'TZO', and 'NO-IP'. The 'DynDNS' tab is selected. Below the header, there is a table with four rows: 'Enable' with an unchecked checkbox, 'Username' with a text field, 'Password' with a text field, and 'Hostname' with a text field. At the bottom are two buttons: 'Apply' and 'Cancel'.

DynDNS – Enable the DynDNS to allow the camera to have a fixed host and domain name.

Refer to the DynDNS website (www.dyndns.com) to apply for a dynamic domain account.

When an account has been created, enter the username, password and hostname.

Click **Apply** to apply settings or **Cancel** to cancel changes.

TZO

DynDNS	TZO	NO-IP								
<table><tr><td>Enable</td><td><input type="checkbox"/></td></tr><tr><td>Email Address</td><td><input type="text"/></td></tr><tr><td>TZO Password</td><td><input type="password"/></td></tr><tr><td>Domain Name</td><td><input type="text"/></td></tr></table> <div><input type="button" value="Apply"/> <input type="button" value="Cancel"/></div>			Enable	<input type="checkbox"/>	Email Address	<input type="text"/>	TZO Password	<input type="password"/>	Domain Name	<input type="text"/>
Enable	<input type="checkbox"/>									
Email Address	<input type="text"/>									
TZO Password	<input type="password"/>									
Domain Name	<input type="text"/>									

TZO is a DDNS provider which allows users to create a dynamic DNS. Refer to the TZO website (<http://www.tzo.com/>) to apply for a dynamic domain account. When an account has been created, enter the e-mail address, password and domain name.

Click **Apply** to apply settings or **Cancel** to cancel changes.

No-IP

DynDNS	TZO	NO-IP								
<table><tr><td>Enable</td><td><input type="checkbox"/></td></tr><tr><td>Email Address</td><td><input type="text"/></td></tr><tr><td>Password</td><td><input type="password"/></td></tr><tr><td>Hostname</td><td><input type="text"/></td></tr></table> <div><input type="button" value="Apply"/> <input type="button" value="Cancel"/></div>			Enable	<input type="checkbox"/>	Email Address	<input type="text"/>	Password	<input type="password"/>	Hostname	<input type="text"/>
Enable	<input type="checkbox"/>									
Email Address	<input type="text"/>									
Password	<input type="password"/>									
Hostname	<input type="text"/>									

No-IP is a DDNS provider which offers DNS services, email, network monitoring and SSL certificates. Email services include POP3 email, outbound SMTP email, backup mail services and mail reflection and filtering. Refer to the No-IP website (www.no-ip.com) to apply for a dynamic domain account. When an account has been created, enter the e-mail address,

password and domain name.

Click **Apply** to apply settings or **Cancel** to cancel changes.



EasyLink™

EasyLink™ is a unique Brickcom function which allows users to assign a unique name to the network camera. There is no need to configure the router to open up ports or remember hard-to-memorize IP address. When this function is enabled, users can use [uniqueEasyLinkname].mybrickcom.com to access the camera's web GUI and live view.

1. Check the box to enable EasyLink™.
2. If Auto mode is selected, the following page will be displayed.



NOTE - This mode is recommended.

3. Enter a unique EasyLink name whose length must be between 5-32 characters. Click the button of “Verify” to check that the EasyLink name can be used or not.

EasyLink	
Enable	<input checked="" type="checkbox"/>
Mode	<input checked="" type="radio"/> Auto <input type="radio"/> Manual
EasyLink Name	<input type="text" value="002682b63c7b"/> .mybrickcom.com <input type="button" value="Verify"/>
EasyLink Status	Cannot communicate with the router via UPnP protocol.
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

4. If Manual mode is selected, the following page will be displayed.

- a. Manually enter the Public IP Address, HTTP port and RTSP port or leave the default values.

EasyLink	
Enable	<input checked="" type="checkbox"/>
Mode	<input type="radio"/> Auto <input checked="" type="radio"/> Manual
EasyLink Name	002682b63c7b .mybrickcom.com <input type="button" value="Verify"/>
Public IP Address	<input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/>
Public HTTP Port	<input type="text" value="80"/>
Public RTSP Port	<input type="text" value="554"/>
EasyLink Status	Cannot communicate with the router via UPnP protocol.
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Click **Apply** to apply settings or **Cancel** to cancel changes.



NOTE - The EasyLink function will not work if the following conditions occur:

1. The camera cannot be located behind a double NAT network.
2. The camera's IP address cannot be assigned to specific port numbers using the router's port forwarding.
3. EasyLink uses UPnP to exchange port information with the router. The camera must connect to the internet through a router which supports UPnP.

3G(*)

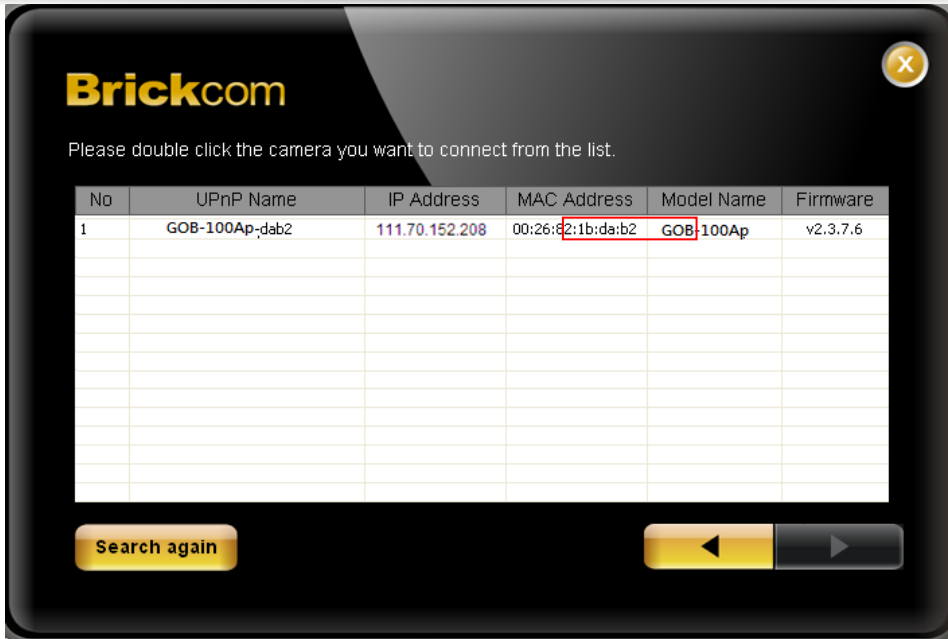
Use this option if using a 3G SIM card to transmit video/audio surveillance over a 3G network

3G	
Enable	<input type="checkbox"/>
APN	internet
Dial Number	*99#
PIN Code	0000
PUK Code	
Username	
Password	
Status	Could not access the SIM card.
Signal Strength	48%

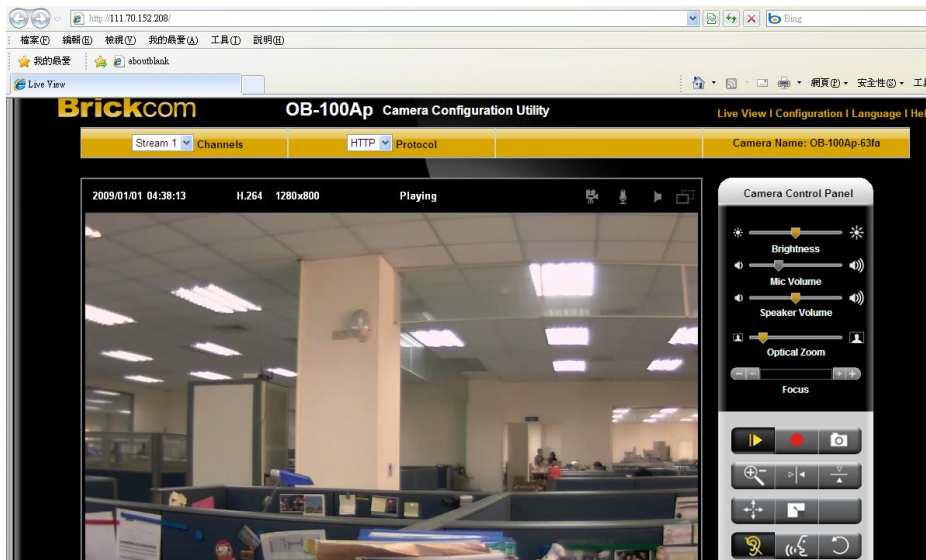
- Enter the APN (Access Point Number), Dial Number, PIN Code, User Name and Password provided by the ISP.
- Click **Apply** to apply the settings. The message below will be displayed if the 3G settings were successfully applied.



- Before disconnected the wired connection with the network camera, obtain the IP Address by opening EasyConfig. The 3G connection IP Address will be displayed in the IP Address column.



d. The network camera can now be accessed over a 3G network. To access the video feed through the internet, open a web browser and enter the network camera's IP address. A dialog window will pop up requesting a username and password. As stated on the previous page, the default username and password for the Administrator account are **“admin/admin”**.



Wireless(*)

These settings control how a Network Camera interacts with a wireless network. Users can identify the wireless network and enable wireless encryption.



NOTE – This function is only available for Wireless models.

Basic Settings

Network Name (SSID) - The Service Set Identifier (SSID) is the network name used to identify the wireless signal. It is case-sensitive and can be up to 32 characters long. Wireless devices have a default SSID set by the factory. Brickcom wireless products use **Brickcom** as the default name. It is recommended for users to rename the SSID to something unique in order to distinguish their wireless device from surrounding wireless networks.



NOTE - Be careful when including personal information when naming the SSID as it is viewable by anyone browsing for wireless networks.

Security - Encryption protects data transmitted over a wireless network. Wi-Fi Protected Access (WPA-Personal/WPA2-personal) and Wired Equivalent Privacy (WEP) offer different levels of security for wireless communication. A network encrypted with WPA-Personal/WPA2-personal is more secure than a network encrypted with WEP because WPA-Personal/WPA2-personal uses dynamic key encryption. To protect the information as it passes through the airwaves, it is recommended to enable the highest level of encryption supported by the network equipment.

Site Survey – Survey the local area for available wireless networks. The user should select their Local Area Network (LAN) from the Site Survey List.

The screenshot shows the 'Wi-Fi Protected Setup' tab in the Brickcom interface. At the top, there are three tabs: 'Basic Settings', 'Advanced Settings', and 'Wi-Fi Protected Setup'. Below the tabs, there are two input fields: 'Network Name (SSID)' with the value 'Brickcom' and a 'Site survey' button, and 'Security' with a dropdown menu set to 'Disabled'. Below these fields are 'Apply' and 'Cancel' buttons. The main section is titled 'Site Survey List' and contains a table with the following data:

SSID	Mode	Security	Channel	Signal	Type	Select
test_gary_Brickcom_1	11b/g/n	NONE	1	78%	Infrastructure	Select
SmartHub-AWRT600N	11b/g/n	NONE	1	73%	Infrastructure	Select
Test-FAE	11b/g/n	NONE	1	100%	Infrastructure	Select
bricom_3	11b/g/n	NONE	1	89%	Infrastructure	Select
Test_Cavin	11b/g	NONE	1	57%	Infrastructure	Select
PC NVR TEST	11b/g/n	NONE	2	68%	Infrastructure	Select

WEP- Wired Equivalent Privacy (WEP) is a basic encryption method which transmits network broadcast messages using radio signals. It is not as secure as WPA.

Basic Settings

Advanced Settings

Wi-Fi Protected Setup

Network Name (SSID)

Brickcom

Site survey

Security

WEP

TX Key

1

WEP Encryption

40/64 bits (10 hex digits)

Key 1

Key 2

Key 3

Key 4

Authentication

Open System

Apply

Cancel

Site Survey List

SSID	Mode	Security	Channel	Signal	Type	Select
test_gary_Brickcom_1	11b/g/n	NONE	1	78%	Infrastructure	Select
SmartHub-AWRT600N	11b/g/n	NONE	1	73%	Infrastructure	Select
Test-FAE	11b/g/n	NONE	1	100%	Infrastructure	Select
bricom_3	11b/g/n	NONE	1	89%	Infrastructure	Select
Test_Cavin	11b/g	NONE	1	57%	Infrastructure	Select
PC-MVP-TEST	11b/g/n	NONE	2	68%	Infrastructure	Select

Tx Key - Select a key from the drop-down menu.

WEP Encryption - Select a level of WEP encryption: 64 bits 10 hex digits or 128 bits 26 hex digits. The default is 64 bits 10 hex digits.

Key 1-4 - Enter the WEP key(s) manually.

Authentication - The default is set to Open System, which allows either Shared Key or Auto authentication to be used. With Shared Key authentication, the sender and recipient use a WEP key for authentication. With Auto authentication, the sender and the recipient do not use a WEP key for authentication.

Click **Apply** to apply settings or **Cancel** to cancel changes.

WPA-Personal - WiFi Protected Access (WPA)-Personal

Basic Settings

Advanced Settings

Wi-Fi Protected Setup

Network Name (SSID)

Brickcom

Site survey

Security

WPA-Personal

Encryption

TKIP

Shared Key

(8 to 63 characters)

Apply

Cancel

Site Survey List

SSID	Mode	Security	Channel	Signal	Type	Select
test_gary_Brickcom_1	11b/g/n	NONE	1	78%	Infrastructure	Select
SmartHub-AWRT600N	11b/g/n	NONE	1	73%	Infrastructure	Select
Test-FAE	11b/g/n	NONE	1	100%	Infrastructure	Select
bricom_3	11b/g/n	NONE	1	89%	Infrastructure	Select
Test_Cavin	11b/g	NONE	1	57%	Infrastructure	Select
PC NVR TEST	11b/g/n	NONE	2	68%	Infrastructure	Select

Encryption - Supports two encryption methods with dynamic encryption keys: Temporal Key Integrity Protocol (TKIP) and Advanced Encryption Standard (AES). Select the algorithm type from the drop down menu: TKIP or AES. The default is TKIP.

Shared Key - Enter the key shared between the Router and the server keys. Enter a password of 8-63 characters.

Click **Apply** to apply settings or **Cancel** to cancel changes.

WPA2-Persona I - WiFi Protected Access (WPA2-Personal)

Basic Settings

Advanced Settings

Wi-Fi Protected Setup

Network Name (SSID)

Brickcom

Site survey

Security

WPA2-Personal

Encryption

AES

Shared Key

(8 to 63 characters)

Apply

Cancel

Site Survey List

SSID	Mode	Security	Channel	Signal	Type	Select
test_gary_Brickcom_1	11b/g/n	NONE	1	78%	Infrastructure	Select
SmartHub-AWRT600N	11b/g/n	NONE	1	73%	Infrastructure	Select
Test-FAE	11b/g/n	NONE	1	100%	Infrastructure	Select
bricom_3	11b/g/n	NONE	1	89%	Infrastructure	Select
Test_Cavin	11b/g	NONE	1	57%	Infrastructure	Select
PC NVR TEST	11b/g/n	NONE	2	68%	Infrastructure	Select

Encryption - WPA2 supports AES encryption method with dynamic encryption keys.

Shared Key - Enter the key shared between the Router and the server keys. Enter a password of 8-63 characters.



NOTE - If using WPA or WPA2, each device in the wireless network must use the same WPA or WPA2 method and shared key or else the network will not function properly.

Advanced Settings

Basic Settings	Advanced Settings	Wi-Fi Protected Setup						
<table border="1"> <tr> <td>Network Mode</td> <td>BGN-Mixed ▼</td> </tr> <tr> <td>Radio Band</td> <td>Auto-20/40MHz Channel ▼</td> </tr> <tr> <td>WMM (802.1e QoS)</td> <td>Disabled ▼</td> </tr> </table>			Network Mode	BGN-Mixed ▼	Radio Band	Auto-20/40MHz Channel ▼	WMM (802.1e QoS)	Disabled ▼
Network Mode	BGN-Mixed ▼							
Radio Band	Auto-20/40MHz Channel ▼							
WMM (802.1e QoS)	Disabled ▼							
<div> <input type="button" value="Apply"/> <input type="button" value="Cancel"/> </div>								

Network Mode - From the drop-down menu, select the wireless standards running on the network.

- If there are Wireless-B, Wireless-G and Wireless-N (2.4GHz) devices on the network, use the default setting, **BGN-Mixed**.
- If there are Wireless-B and Wireless-G devices on the network, select **BG-Mixed**.
- If there is only Wireless-B devices on the network, select **Wireless-B Only**.
- If there is only Wireless-G devices on the network, select **Wireless-G Only**.
- If there is only Wireless-N (2.4GHz) devices on the network, select **Wireless-N Only**.
- (*) If there are Wireless-A and Wireless-N devices on the network, select **AN-Mixed**.
- (*) If there are Wireless-A, Wireless-B, Wireless-G and Wireless-N (2.4GHz) devices on the network, use the default setting, **ABGN-Mixed**.
- (*) If there is only Wireless-A devices on the network, select **Wireless-A Only**.

Radio Band - The settings are available for the Auto-20/40MHz channel and Standard-20 MHz channel.

Enable WMM (802.1e QoS) - WMM is a wireless Quality of Service feature that improves quality for audio, video, and voice applications by prioritizing wireless traffic. To use this feature, the wireless client devices on the network must support Wireless WMM. The default setting is **Enabled**. To disable this feature, select **Disable**.

Click **Apply** to apply settings or **Cancel** to cancel changes

Wi-Fi Protected Setup

Basic Settings		Advanced Settings		Wi-Fi Protected Setup	
Wi-Fi Protected Setup					
PIN Mode	Enter PIN number 38989827 in the AP device Enter the AP's SSID Brickcom Click the Register button on the right to start WPS. Register				
Wi-Fi Protected Setup Status	Not Configured				
Hardware WPS Button					
Enabled	<input checked="" type="checkbox"/>				
Apply			Cancel		

Use this method if the client device has a Wi-Fi Protected Setup PIN number.

1. Enter the network name from the device in the field.
2. Click <Register> to start WPS.
3. Click "Enable" to enable the WPS Button. If this feature is not enabled, the user will not be able to use the WPS button

Click **Apply** to apply settings or **Cancel** to cancel changes.

HTTP/HTTPS

HTTP/HTTPS	
HTTP	
Enabled	<input checked="" type="checkbox"/>
Port	80
HTTPS	
Enabled	<input type="checkbox"/>
Port	443
Apply Cancel	

HTTP – (HyperText Transfer Protocol) - This protocol allows for TCP protocol quality without having to open specific ports for streaming. Users inside a firewall can utilize this protocol to

allow streaming data through.

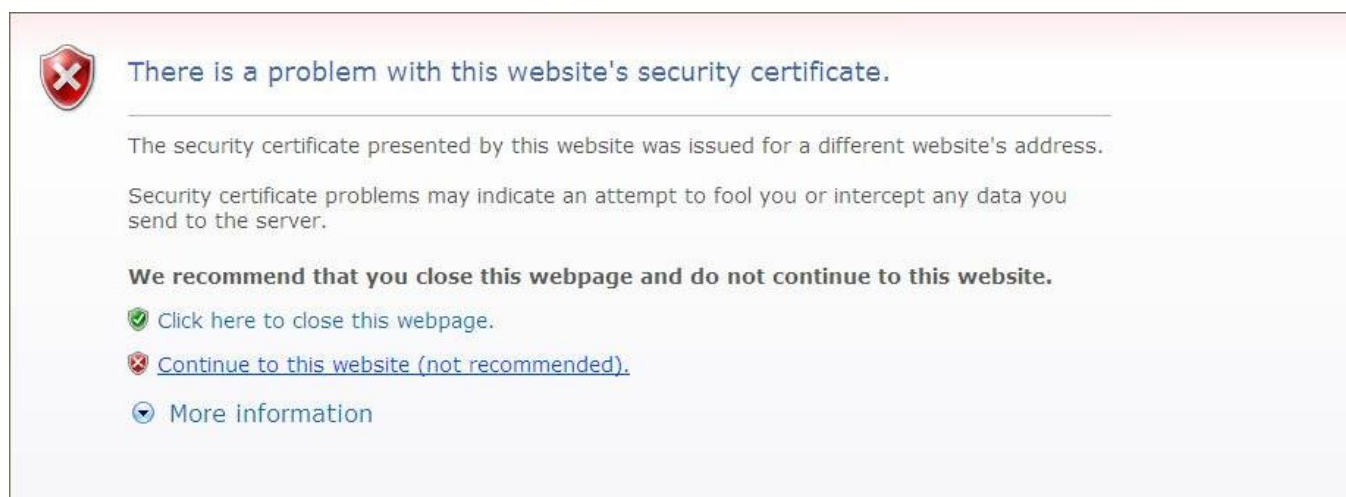
HTTPS - (Hypertext Transfer Protocol over SSL) - This protocol allows authentication and encrypted communication over SSL (Secure Socket Layer). It helps protect streaming data transmission over the Internet on a higher security level than HTTP.

Click “Enable” to enable and **Apply** to apply settings or **Cancel** to cancel changes.

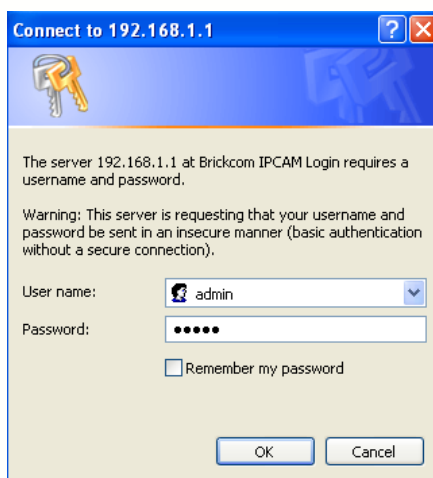
.

To enable HTTPS, users have to create and install a certificate.

1. Click “Continue to this website” to install.



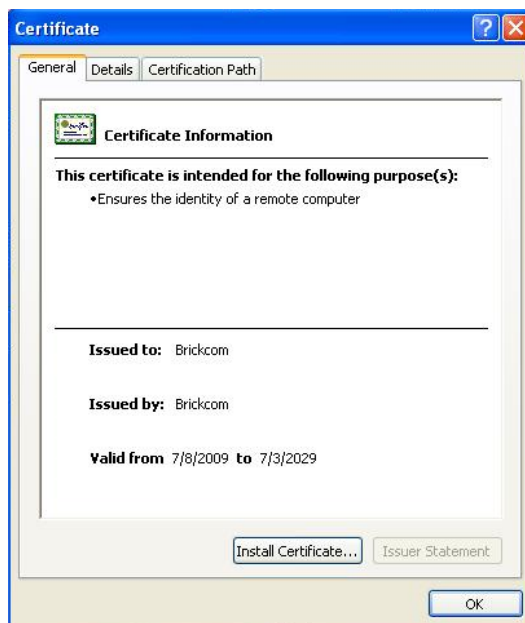
2. Enter the User name and Password of the camera.



3. Click “Certificate Error” on the top right corner of the window to view the certificate.



4. Click "Install Certificate" and follow the steps to finish the installation.



Event

Event Settings

When an event (such as something moving) occurs, the camera can be scheduled to perform certain actions. This section describes how to configure the camera to perform certain actions when events occur.

Event Settings

Event List			
Enable	Name	Event Type	Action
<div>Note: For stream recording, recording stream source must be set to H.264 or MPEG4 with a bitrate lower than 1.5Mbps or the quality below 3 and the resolution lower than 1280x1024.</div> <div><div>Add Event</div><div>Delete Event</div></div>			

Click <Add Event> on the Event Settings page. The Event Setup page will appear.



Event Settings

Event List

Enable	Name	Event Type	Action
Note: For stream recording, recording stream source must be set to H.264 or MPEG4 with a bitrate lower than 1.5Mbps or the quality below 3 and the resolution lower than 1280x1024.			
		<input type="button" value="Add Event"/> <input type="button" value="Delete Event"/>	

Enable	<input type="checkbox"/>
Name	<input type="text"/>
Event Schedule	<input checked="" type="radio"/> Always <input type="radio"/> Schedule <input type="radio"/> Recurrence Pattern
Event	Motion Detection <input type="checkbox"/> Window 1 <input type="checkbox"/> Window 2 <input type="checkbox"/> Window 3
Action	<input type="checkbox"/> Save Stream to <input type="text" value="FTP"/> <input type="checkbox"/> Send Snapshot to <input type="text" value="FTP"/> <input type="checkbox"/> Play Audio Clip : There is no available audio clip. Configure one here <input type="checkbox"/> Send HTTP Notification <input type="checkbox"/> Send to Email <input type="checkbox"/> LED Light <input type="checkbox"/> Send UDP Notification to IP address <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/> Port <input type="text"/> Message <input type="text"/> <input type="checkbox"/> Send Multicast Notification to IP address <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/> Port <input type="text"/> Message <input type="text"/>

How to Set Up an Event Schedule

Event Schedule describes how and when the camera performs certain actions.

1. Check "Enable" and enter a descriptive name for the event schedule.
2. Set Event Schedule to define when the event is activated by selecting from Always (24 hours), Schedule or Recurrence pattern.
 - a. If Schedule is selected from the Event Schedule, the following page will be displayed:

Enable	<input type="checkbox"/>																																																
Name	<input type="text"/>																																																
Event Schedule	<input type="radio"/> Always <input checked="" type="radio"/> Schedule																																																
	<table border="1"> <thead> <tr> <th></th> <th>0:00</th> <th>6:00</th> <th>12:00</th> <th>18:00</th> <th>24:00</th> </tr> </thead> <tbody> <tr><td>Sun</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Mon</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Tue</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Wed</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Thu</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Fri</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Sat</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> <input checked="" type="checkbox"/> Event Schedule <input type="checkbox"/> Not Scheduled		0:00	6:00	12:00	18:00	24:00	Sun						Mon						Tue						Wed						Thu						Fri						Sat					
		0:00	6:00	12:00	18:00	24:00																																											
	Sun																																																
Mon																																																	
Tue																																																	
Wed																																																	
Thu																																																	
Fri																																																	
Sat																																																	
<input type="button" value="Select All"/> <input type="button" value="Clear All"/> <input type="button" value="Undo All"/>																																																	
	<input type="radio"/> Recurrence Pattern																																																
Event	<input type="text" value="Motion Detection"/> <input type="checkbox"/> Window 1 <input type="checkbox"/> Window 2 <input type="checkbox"/> Window 3																																																
Action	<input type="checkbox"/> Save Stream to <input type="text" value="SD card"/>																																																
	<input type="checkbox"/> Send Snapshot to <input type="text" value="FTP"/>																																																
	<input type="checkbox"/> Play Audio Clip : There is no available audio clip. Configure one here																																																
	<input type="checkbox"/> Send HTTP Notification																																																
	<input type="checkbox"/> Send to Email																																																
	<input type="checkbox"/> LED Light																																																
	<input type="checkbox"/> Send UDP Notification to IP address <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/> Port <input type="text"/> Message <input type="text"/>																																																
	<input type="checkbox"/> Send Multicast Notification to IP address <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/> Port <input type="text"/> Message <input type="text"/>																																																
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>																																																	

- i. A Scheduled Event can be programmed for certain times and day.
 - ii. Click individual boxes to schedule specific times for the camera to detect events.
- b. If Recurrence Pattern is selected, the following page will be displayed.

Event Settings

Event List			
Enable	Name	Event Type	Action
<input checked="" type="checkbox"/>	no. 1	Motion Detection	Take Snapshot
<input checked="" type="checkbox"/>	No. 2	PIR	Save Stream, Play Audio Clip

Note: For stream recording, recording stream source must be set to H.264 or MPEG4 with a bitrate lower than 1.5Mbps or the quality below 3 and the resolution lower than 1280x1024.

Add Event

Delete Event

Enable

☒

Name

No. 2

Event Schedule

☐ Always
 ☐ Schedule
 ☒ Recurrence Pattern

☐ Sun ☒ Mon ☐ Tue ☒ Wed ☐ Thu ☐ Fri ☒ Sat

Start 09 : 00 Duration 30 Minutes

Event

PIR

☒ Save Stream to Samba
 ☐ Send Snapshot to FTP
 ☒ Play Audio Clip : There is no available audio clip. Configure one [here](#)
☐ Send HTTP Notification
 ☐ Send to Email
 ☐ LED Light
 ☐ Send UDP Notification to IP address

. . . Port Message

☐ Send Multicast Notification to IP address

. . . Port Message

Action

Apply

Cancel

- i. An event schedule can be programmed to recur at different times according to the user's needs. Select the days for the event schedule to occur. Select a start time and specify the duration.
3. Define what will trigger an event to occur by selecting an option from the Event drop-down list.
4. Select the Actions that will occur when the event is triggered.

a. When <Send to Email> is selected, the following page will be shown:

Enable	<input type="checkbox"/>
Name	<input type="text" value="No. 2"/>
Event Schedule	<input checked="" type="radio"/> Always <input type="radio"/> Schedule <input type="radio"/> Recurrence Pattern
Event	<input type="text" value="Motion Detection"/> <input type="checkbox"/> Window 1 <input type="checkbox"/> Window 2 <input type="checkbox"/> Window 3
Action	<input type="checkbox"/> Save Stream to <input type="text" value="FTP"/> <input type="checkbox"/> Send Snapshot to <input type="text" value="FTP"/> <input type="checkbox"/> Play Audio Clip : There is no available audio clip. Configure one here <input type="checkbox"/> Send HTTP Notification <input checked="" type="checkbox"/> Send to Email <input type="checkbox"/> LED Light <input type="checkbox"/> Send UDP Notification to IP address <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/> Port <input type="text"/> Message <input type="text"/> <input type="checkbox"/> Send Multicast Notification to IP address <input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/> Port <input type="text"/> Message <input type="text"/>
Email	Sender <input type="text"/> TO <input type="text"/> CC <input type="text"/> Sender's Name <input type="text"/> Subject <input type="text"/>

- ii. Sender - Enter the email address of the sender.
- iii. Recipient - Enter the email address of the recipient. To enter multiple recipients, separate each using a comma.
- iv. Sender's Name – Enter the sender's name that will appear in the recipient's inbox.
- v. Subject - Enter the title of the email.

5. When complete, click **Apply** to save new event or **Cancel** to delete the event. The new event will appear on the event list.
6. To edit an event setting; select the event from the list. To remove an event setting from the list, select an event name from the list and then click <Delete Event>. Click <Add Event> to add more events.

NOTE - Refer to the Audio Clip section for more details about the “Play Audio Clip” action.

Motion Detection

Motion can be detected by measuring changes in the speed or vector of an object or objects in the monitored area. This section explains how to configure the Network Camera to enable motion detection.

Detection Settings

Region Settings

- ☒ Enable Window 1
- ☐ Enable Window 2
- ☐ Enable Window 3

Sensitivity

Threshold

Use the mouse to resize or move the Motion Detection Window. The chart below records the amount of activity within the MD Window. The user can choose to receive notifications when the activity level is above the threshold. Use the Event Settings tool to configure the notification settings..

*The MD setting is only activate in stream 1 .

Apply Cancel

Detection Setting – Use this setting to enable and define the motion detection windows. The user can defined up to three areas on the live view window for motion detection.

1. Select <Window1>, <Window2>, or <Window3> to adjust the motion detection window.
2. Check the box to enable the window.
3. Use the mouse to resize or move the motion detection window.
4. Adjust the “Sensitivity” level. Lower sensitivity levels will result in more activity needed

to trigger an event.

5. Adjust the “Threshold” to change the threshold level. The higher the threshold, the larger objects need to be to trigger an event.
6. The chart below the Live View window indicates the activity level of the Motion Detection window. When motion is detected by the camera and exceeds the defined threshold, a red bar will appear. Users can use this feature as a trigger source to send photos or videos to a remote server via email or FTP.

Click **Apply** to apply settings or **Cancel** to cancel changes.

Video Analytics (This function only for model with video analytics)

The Video Analytics is a technology that is used to analyze video for the specific intent or action. It's the idea way to reduce the overload problem of guarder by the timely/automatic alerting the guarder.

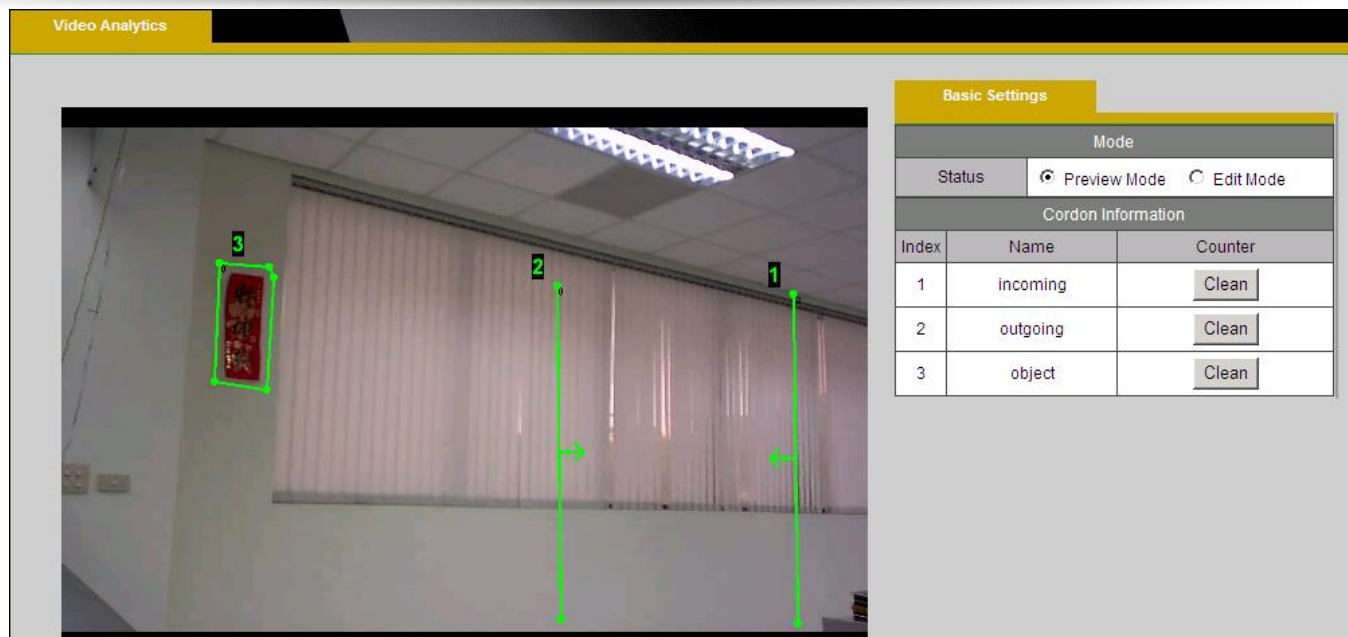
There are two modes of Video Analytics:

Basic settings

1. Preview Mode

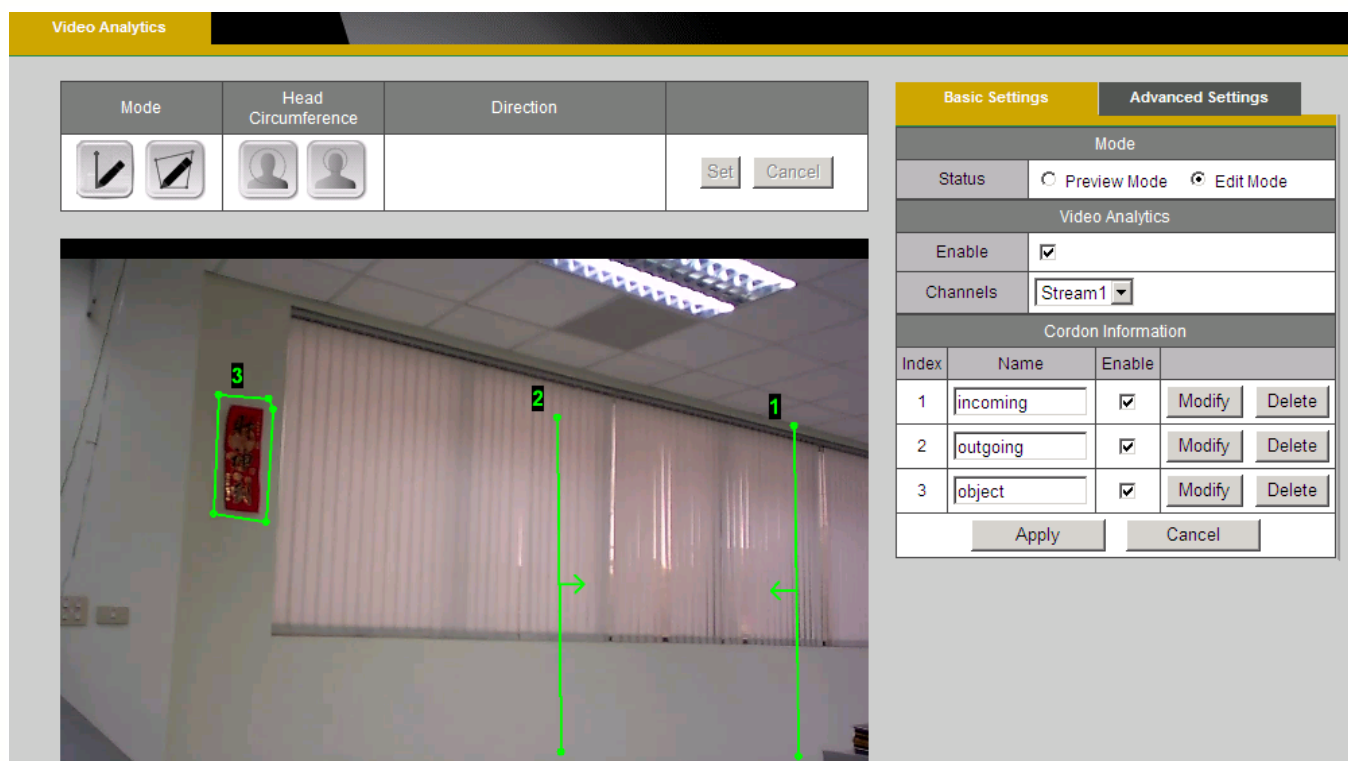
To review the outcome of Video Analytics setting, and you can reset the counter here.





2. Edit Mode

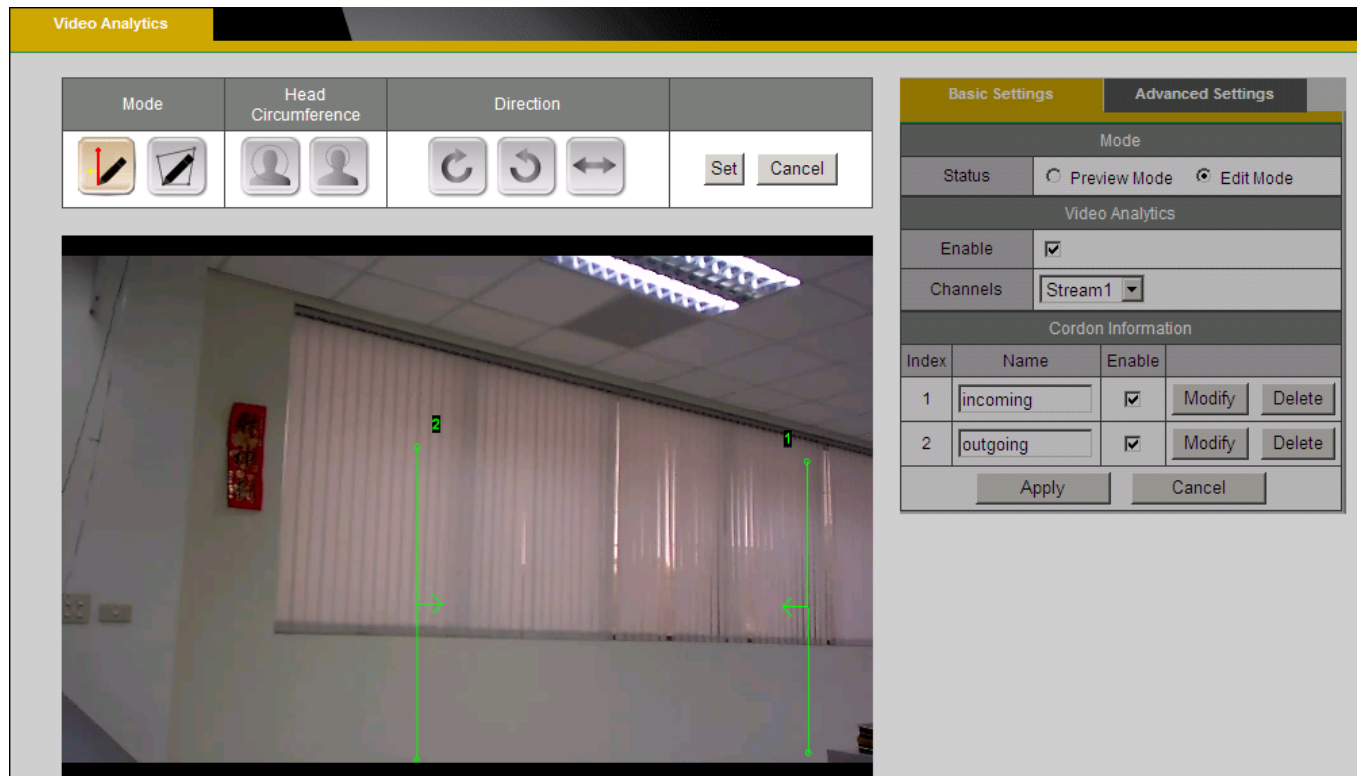
For setting Video Analytics, click 'Edit mode' to do further set-up.



Video Source - You can choose the certain stream as the video source for the video analytics. Just choose it from the drop-down menu.

Cordon Information - Click “Enable”, then the cordon will take effect. If it is not enabled, the cordon just be kept as a setting, and will not take effect.

Click **Apply** to apply settings or **Cancel** to cancel changes.



The screen at the right side will be disabled when you are working to draw the cordon:



Draw lines as the virtual fence to detect if there is an invader across the cordon.



Clockwise movement



Counter-clockwise movement



Two-way movement



Set a border (as the hot zone) for the function of the left/missing object. The system shall alarm, if there is something to be left into there or be moved out.

Head Circumference

Head Circumference



The people count function focuses on the tracking of circular object, so here is to set the values of the head circumference.

Min Head Circumference	77
Max Head Circumference	113

Click the above icons to draw two circles as the way to specify the head circumference.



Advanced Settings

Video Analytics

Mode

Head Circumference

Direction

Set

Cancel

Basic Settings

Advanced Settings

Common Parameter

Trigger Point

☒ Bottom
 ☐ Center

Mini sampling frame

5

Min pixels per object

25

Trajectory Smoothness

4

On Screen Display

Cordon

☒ Enable

Moving Object

☒ Enable

Trajectory

☒ Enable

Counting

☒ Enable

People Counting Parameter

Human Detection

☐ Enable

Min Head Circumference

80

Max Head Circumference

324

Sensitivity

9

Tolerance

2

Left/Missing Object Parameter

Draw Abandon Object

☒ Enable

Abandon Start

100

Frame(s) (10-299)

Abandon End

170

Frame(s) (11-300)

Apply

Cancel

Common Parameter

Trigger Point: caused by the different view angle, the trigger point should be adjusted for the actual environment. For the most cases, select “Center mode” for the vertical shot, or select “Bottom mode” for the horizontal shot.

Mini sampling frame: The minimal frames to recognize a moving object. The smaller causes to be more sensible/sensitive.

Min pixels per object: The Min. pixels are for an object. The smaller causes to recognize one object to become two separate.

Trajectory Smoothness: Set smoothness of the trajectory, the higher value to get more smooth trace.

On Screen Display

Cordon Enable: To control if the cordon is shown inside the image as the part of the video.

Moving Object Enable: To control if the highlight of the moving object is shown inside the image as the part of the video.

Trajectory Enable: To control if the trajectory is shown inside the image as the part of the video.

Counting Enable: While an invader cross over the line, then the camera counts it automatically. So enable this one to let the count numbers be shown as the part of the video.

People Counting Parameter

Human Detection Enable: To enable/disable the function of the human detection (mainly focus on the circle object)

Min Head Circumference: The minimum value of Head Circumference.

Max Head Circumference: The maximum value of Head Circumference.

Sensitivity: Adjust the sensitivity for the detection. The sensitivity is higher; it is easier to be triggered.

Tolerance: The tolerance for the detection of the circular object.

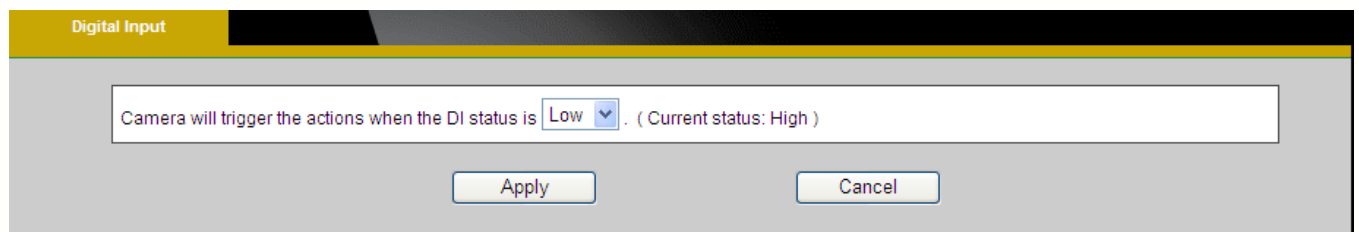
Left/Miss Object Parameter

Draw Abandon Object: To control if the highlight of left/missing object is shown inside the image as the part of the video. There will be a border outside the left/missing object.

Abandon Start: If there is no movement, then the system starts to check if the object be moved. Such as an example: If the chosen stream is configured as 15 fps, and this parameter is 150, then the system will alarm, if the object is lost over 10 seconds.

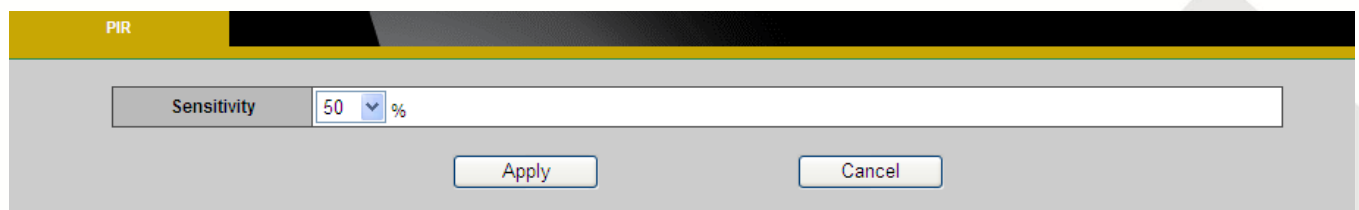
Abandon End: After the system alarms for the lost object, the system shall start to save a picture as the next comparison target. To continue the previous example, if the chosen stream is configured as 15 fps, and this parameter is 300, then 20 seconds after the system alarms for the lost object, the system shall save a picture as the next comparison target.

Digital Input (DI)

The screenshot shows a web interface for configuring the Digital Input (DI). At the top, there is a yellow header bar with the text "Digital Input". Below this, a white box contains the text "Camera will trigger the actions when the DI status is" followed by a dropdown menu currently set to "Low". To the right of the dropdown, it says "(Current status: High)". Below the white box, there are two buttons: "Apply" and "Cancel".

The DI socket allows the IP camera to receive input from an external device. The external device should have the ability to drive voltage on the connected DI wire to the triggering voltage level in order to notify the IP camera of any event of interest. The IP camera will then process the event notification according to the specific event rules. Triggering voltage Level: LOW, HIGH, Rising and Falling. Users should select the option according to the capability of their external device.

PIR(*)

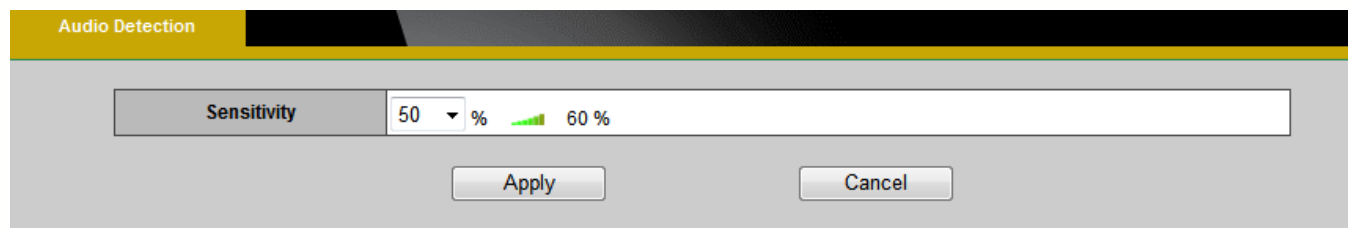
The screenshot shows a web interface for configuring the PIR sensor. At the top, there is a yellow header bar with the text "PIR". Below this, a white box contains the text "Sensitivity" followed by a dropdown menu currently set to "50" and a percentage sign "%". Below the white box, there are two buttons: "Apply" and "Cancel".

The PIR (Passive InfraRed) sensor measures infrared light radiating from objects in its field of view. This can be used to detect a moving object, such as a person, in dimly lit areas.

Sensitivity – Adjust the sensitivity of the PIR Sensor from the drop down menu. The sensitivity can be set from 10 - 100%; with the default sensitivity set at 50%. Higher sensitivity levels will increase the range of the PIR Sensor. When the sensitivity level is set to 100%, the PIR

sensor will be able to detect moving objects within six meters.

Audio Detection



Users can schedule an event to be triggered if there is a change in the sound level of a monitored area. Audio detection can be used to measure change in the ambient voice. Select the sensitivity from the drop-down menu.

Sensitivity - is used to adjust the sensitivity of the sound level from 10 - 100%. The default sensitivity is 50%.

 60 % Display the current sound level.

Click **Apply** to apply settings or **Cancel** to cancel changes.

Notifications

Use the tools in this section to specify what type of notification will be sent when an event occurs. The camera can send buffered images to an FTP server, Samba, Email, or HTTP.

FTP Settings

File Transfer Protocol (FTP) is used as an application component to automatically transfer files for program internal functions. Select “Primary FTP Server” from the Server Selection drop down menu to send media files to a FTP server when an event is triggered. Enter the FTP IP address or hostname. By default, the FTP port server is set to 21. Enter the account name, password and FTP Path to configure the settings.

FTP Settings	
Server Selection	Primary FTP Server
FTP Address	IP Address 0 . 0 . 0 . 0
FTP Port	21
Account Name	
Account Password	
FTP Path	
<div>Apply Test Cancel</div>	

Click **Apply** to apply settings or **Cancel** to cancel changes.

E-mail Settings

Select “Primary Email Server” option from the Server Selection drop down menu to send media files to an email server when an event is triggered.

SMTP Server - Enter the server host name of the email server.

SMTP Port - Enter the port number of the email server; by default, the SMTP port is set to 25.

Authentication - Select the authentication type from the drop-down menu.

Email Account - Enter the user name of the email account if necessary.

Email Password - Enter the password of the email account if necessary.

Email Settings

Server Selection	Primary Email Server
SMTP Server	
SMTP Port	25
Authentication	LOGIN
Email Account	
Email Password	

Apply

Test

Cancel

Click **Apply** to apply settings or **Cancel** to cancel changes.

Samba Settings

Select this option to send the media files via a network neighborhood when an event is triggered.

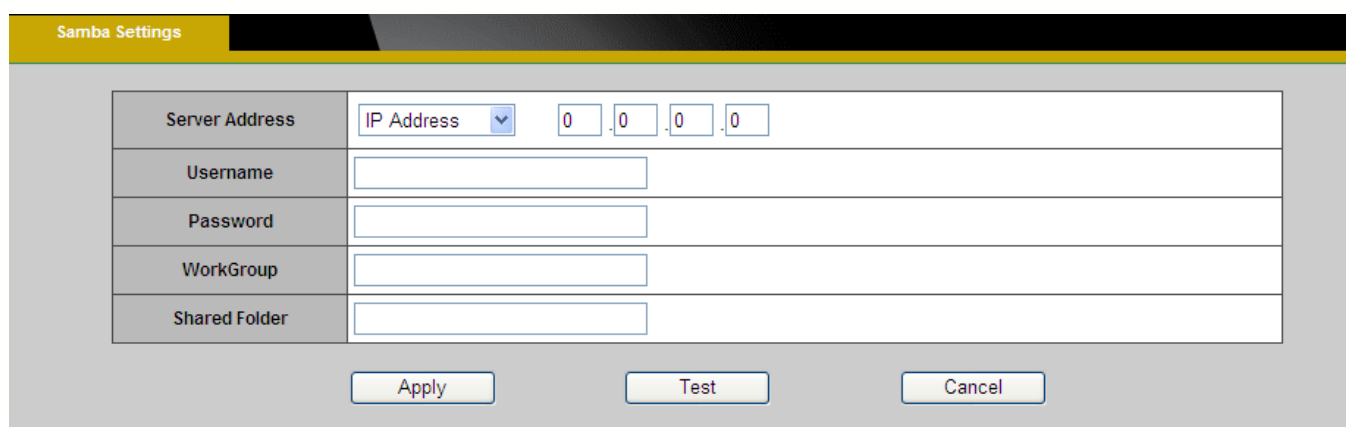
Server Address - Enter the IP address of the Samba server.

User Name - Enter the user name of the Samba server.

Password - Enter the password of the Samba server.

Work Group - Enter the workgroup of the Samba server.

Shared Folder - Enter the share folder of the Samba server.



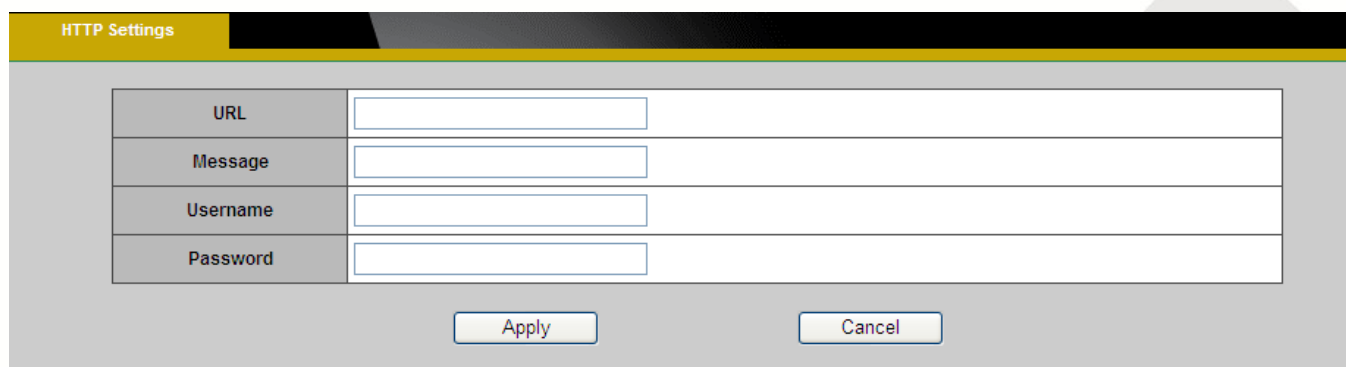
Samba Settings	
Server Address	IP Address <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
WorkGroup	<input type="text"/>
Shared Folder	<input type="text"/>

Apply Test Cancel

Click **Apply** to apply settings or **Cancel** to cancel changes.

HTTP Settings

Select this option to send the media files via an HTTP notification when an event is triggered.



HTTP Settings	
URL	<input type="text"/>
Message	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>

Apply Cancel

URL –Specify the URL to send HTTP requests. The URL is normally written as:

[http://ip_address/ notification.cgi?parameter](http://ip_address/notification.cgi?parameter)

ip_address – type the IP address or host name of the HTTP host.

Parameter – type the notification parameter if necessary.

Example

URL - <http://192.168.1.1/xxxx.cgi>

Message - name1=value1&name2=vlaue2

Result - [http://192.168.1.1/xxxx.cgi? name1=value1&name2=vlaue2](http://192.168.1.1/xxxx.cgi?name1=value1&name2=vlaue2)

Ex:

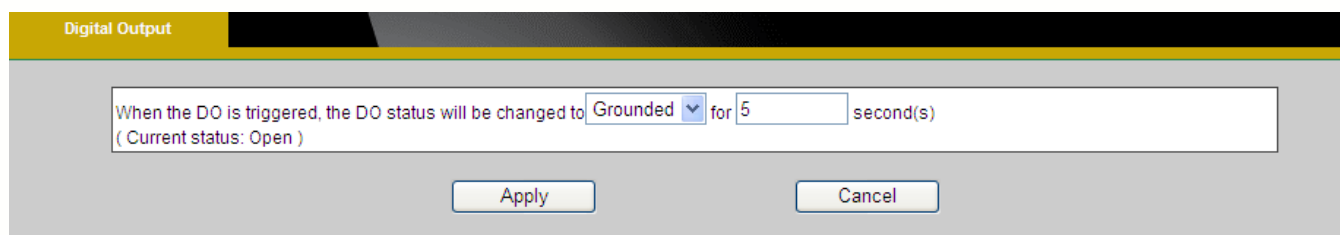
<https://192.168.1.1/notification.cgi?event=MD&camera=FB-100A>

Message - Enter the message notification that will be sent when an event is triggered.

Enter the user name and password if necessary.

Click **Apply** to apply settings or **Cancel** to cancel changes.

Digital Output (DO) (*)



The DO socket allows the IP camera to send output to an external device. While executing the DO notification action, the IP camera drives voltage on the connected DO wire to the triggering voltage level for X number of seconds. The connected external device will then be triggered for X number of seconds.

Triggered Voltage Level - OPEN or GROUND

Users should select the option according to the specification of their external device.

Video Clip/Snapshot

Video Clip/Snapshot

Video Clip	
Pre-Alarm Buffer	5 Seconds (0-10)
Post-Alarm Buffer	5 Seconds (1-30)
Maximum Buffer Size	1024 Kbytes (128-6144)

Snapshot	
Pre-Alarm Buffer	0 Frame(s) (0-7)
Post-Alarm Buffer	1 Frame(s) (1-7)

These settings are used for the Save Stream notifications triggered by Motion Detection, Digital Input, Audio Detection or PIR. Schedule event and Offline recording are not included.

Apply
Cancel

Video Clip

If there is an event happened, the camera can be configured to record the video as a reaction.

Pre-alarm buffer - Images can be stored internally from the time immediately preceding the trigger. Enter the desired length of time.

Post-alarm buffer - Images can be stored internally from the time immediately following the trigger. Enter the desired length of time.

Maximum buffer size – To specify the Max. file size of each video clip. If the file size is more than it, then the camera shall stop the recording.

Click **Apply** to apply settings or **Cancel** to cancel changes.

Snapshot

This function is used to determine when snapshot images will be stored before or after an event is triggered.

Pre-alarm buffer - Images will be stored internally from the time immediately preceding the trigger. Enter a number to decide how many images to capture before a trigger is activated. Up to 7 images can be generated.

Post-alarm buffer - Contains images from the time immediately after the trigger. Up to 7 images can be generated.

Audio Clip(*)

Audio Recording – Audio clips can be recorded and played when an event occurs.

Audio Recording

Audio Clip List

Index	File Name
1	001.wav

Play

Stop

Delete

Export

Import

Please select a file to import

...


Import

Audio Recording Setting

File Name	
Duration	5 Second

Recording

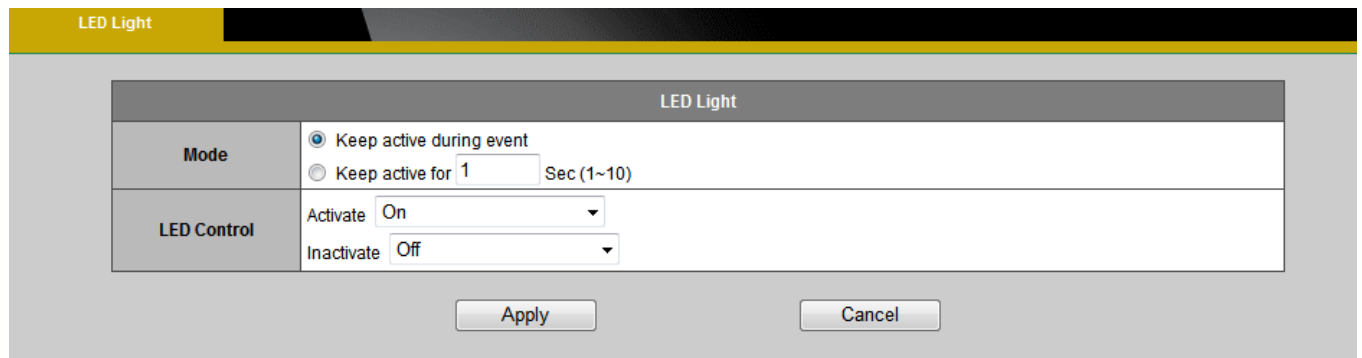
Click **Browse** to import a file from a local hard drive or network disk. Select the file and click

Import.  **NOTE** – The camera can only play audio clips which are saved as .wav files with G.711 u-law encoding in 8000 Hz sampling rate.

To record a new clip using the camera's microphone:

1. File Name-Enter a file name.
2. Duration - Enter the number of seconds to record.
3. Click **Record** to record the new audio clip.
4. The new audio clip will appear on the audio clip list.
5. Select an audio clip file from the Audio Clip List.
 - a. Play- Select to hear the audio clip
 - b. Stop- Select to stop playing the audio clip.
 - c. Delete- Select to delete an audio clip.
 - d. Export- Select to export the audio clip to a local hard drive or network disk.

LED Light (*)



LED Light	
Mode	<input checked="" type="radio"/> Keep active during event <input type="radio"/> Keep active for 1 Sec (1~10)
LED Control	Activate On
	Inactivate Off

Apply Cancel

Mode – Select “Keep active during event” or “Keep active for” a specific amount of time when an event is triggered.

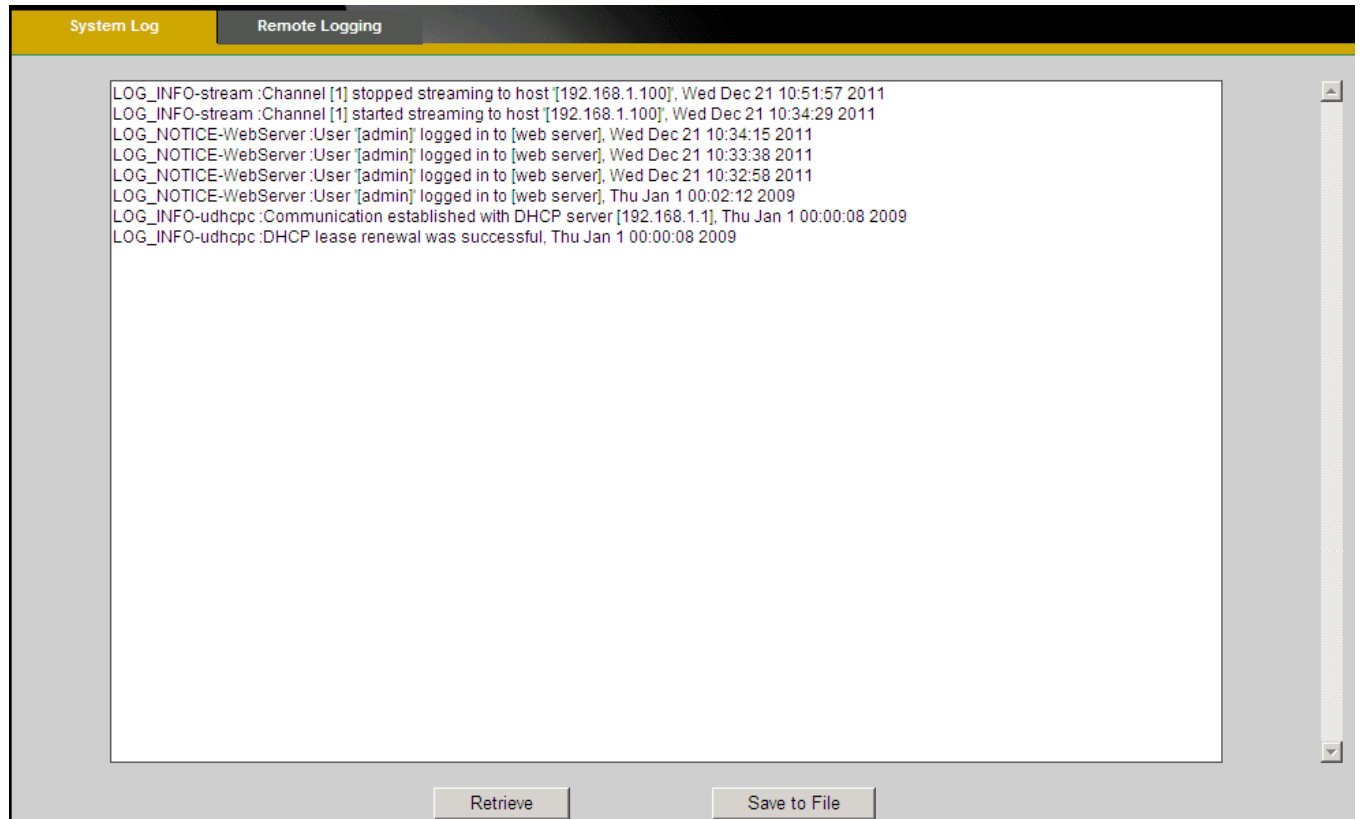
LED Control - The LED on the front of the camera can be set to flash at a configurable interval when an event is triggered. From the Activate drop down menu, select a percentage which the LED will brighten to. When the LED reaches the selected percentage, it can be configure to fade to off or turn off. Select the option from the Inactive menu.

Click **Apply** to apply settings or **Cancel** to cancel changes.

System

System Log

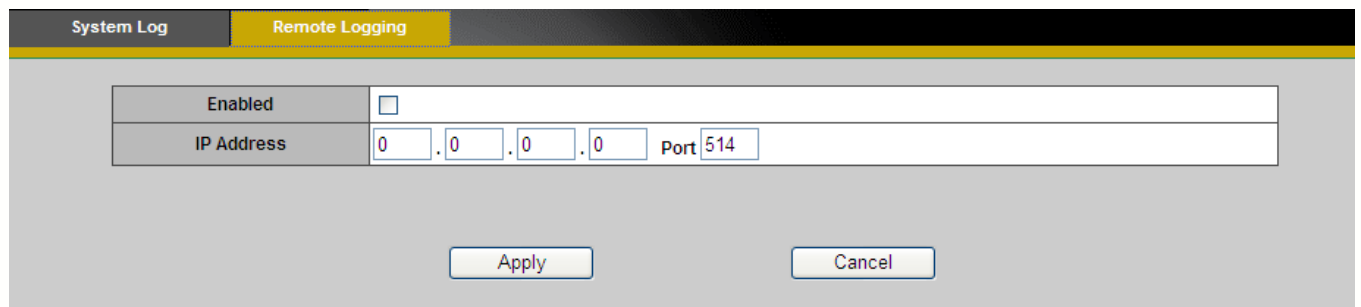
Log – Set up the camera to record a system log when an event is triggered.



This page displays the system's log in chronological order. The system log is stored in the camera's buffer area and will be overwritten when the buffer area is full.

Click **Retrieve** to retrieve the log or click **Save to file** to save the system log.

Remote Logging



System Log		Remote Logging				
Enabled	<input type="checkbox"/>					
IP Address	0	0	0	0	Port	514

Apply Cancel

The user can configure the camera to send the system log file to a remote server as a log backup.

Click to enable remote log and enter the IP address of the remote server.

Enter the port number of the remote server.

Click **Apply** to apply settings or **Cancel** to cancel changes.

Date and Time

Time Zone – Select the local time zone from drop-down menu.

Manual – Manually enter the date and time.

Clone from PC – The camera will sync with the time, date and time zone of the computer used to modify the camera settings. Check “Clone” to utilize this option. The read-only date and time of the PC will be displayed.

NTP – (Network Time Protocol) - NTP is a protocol for synchronizing the clocks of a computer system. Select to update the time with a NTP server on an hourly, daily, weekly, or monthly basis.

NTP Server 1 and Server 2 - Enter the address of the NTP server

Daylight Saving - Enable this option to automatically update for Daylight Savings Time.

Date and Time

Manual

Year
Month
Day
Hour
Minutes
Second

Clone from PC

Year
Month
Day
Hour
Minutes
Second

☒ Clone

NTP

TimeZone

(GMT+8:00)Hong Kong

NTP Server 1

tick.stdtime.gov.tw

NTP Server 2

clock.stdtime.gov.tw

Daylight Saving

☐ Enable

Apply

Cancel

Click **Apply** to apply settings or **Cancel** to cancel changes.

Device Information

System Information – Displays the complete system information of the camera.

System Information	Network Settings	Video/Audio Settings	Client Information																								
<table> <tr> <td>LAN MAC Address</td><td colspan="3">00:26:82:B6:3C:7B</td></tr> <tr> <td>Firmware Version</td><td colspan="3">v3.1.0.4</td></tr> <tr> <td>Product Name</td><td colspan="3">CB-100Ap</td></tr> <tr> <td>Hardware Version</td><td colspan="3">V2</td></tr> <tr> <td>Company Name</td><td colspan="3">Brickcom Corporation</td></tr> <tr> <td>UPnP Name</td><td colspan="3">CB-100Ap-3c7b</td></tr> </table>				LAN MAC Address	00:26:82:B6:3C:7B			Firmware Version	v3.1.0.4			Product Name	CB-100Ap			Hardware Version	V2			Company Name	Brickcom Corporation			UPnP Name	CB-100Ap-3c7b		
LAN MAC Address	00:26:82:B6:3C:7B																										
Firmware Version	v3.1.0.4																										
Product Name	CB-100Ap																										
Hardware Version	V2																										
Company Name	Brickcom Corporation																										
UPnP Name	CB-100Ap-3c7b																										

Network Settings –Displays the complete network settings information of the camera.

System Information	Network Settings	Video/Audio Settings	Client Information	
IP Information				
IP Setting Type	DHCP			
IP Address	192.168.1.21			
Subnet Mask	255.255.255.0			
Default Gateway	192.168.1.2			
Primary DNS	192.168.1.2			
Secondary DNS	192.168.1.2			
Network Services				
UPnP	Enabled			
DynDNS	Disabled			
TZO	Disabled			
NO-IP	Disabled			

Video/Audio Settings –Displays the complete video/audio settings information of the camera.

System Information	Network Settings	Video/Audio Settings	Client Information
Stream 1			
Video Codec	H.264		
Video Resolution	1280x720		
Video Frame Rate	30 fps		
Video Bitrate	4000 Kbps		
Audio Codec	N/A		
Multicast IP	N/A		
Stream 2			
Video Codec	MJPEG		
Video Resolution	1280x720		
Video Frame Rate	25 fps		
Video Quality	4		
Audio Codec	N/A		
Multicast IP	N/A		

Wireless(*) - Displays the complete wireless information of the camera.

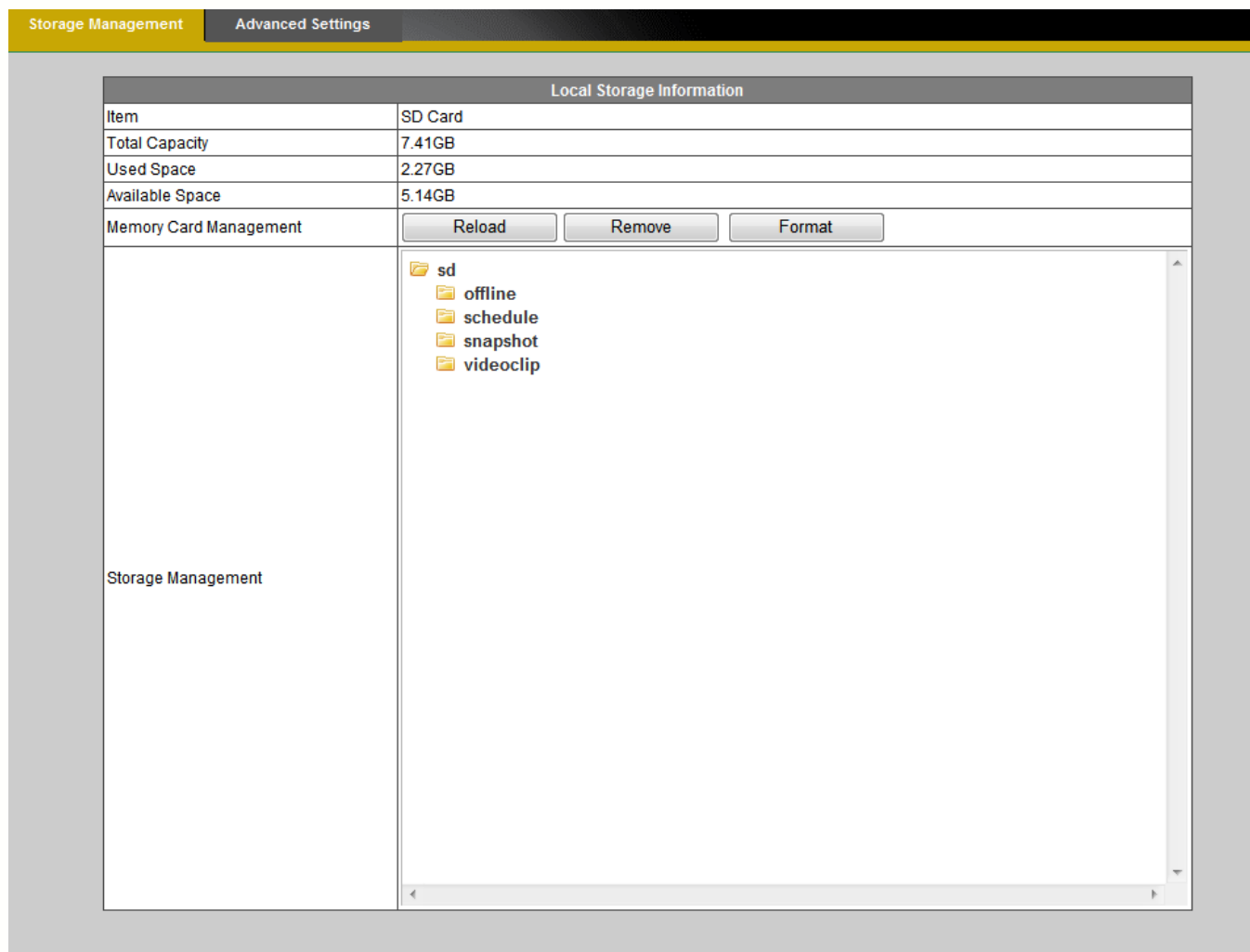
System Information	Network Settings	Video/Audio Settings	Wireless
Wireless MAC Address	00:26:82:1B:DB:92		
Radio Band	Auto-20/40MHz Channel		
Network Mode	BGN-Mixed		
Security	Disabled		
Network Name (SSID)	Brickcom_MARS		
Wireless Channel	6		
Wireless Signal Strength	85%		
Status	Connected		

Client Information- Displays the RTSP Client. You will see a list of RTSP clients with the following information: IP Address and channel.

System Information	Network Settings	Video/Audio Settings	Client Information
Index	IP Address		Channel
	Refresh		

Storage Management (*)

Storage Management is used to view all the recorded files on the Micro-SD/SDHC card.



The screenshot displays the 'Storage Management' interface. At the top, there are two tabs: 'Storage Management' (active) and 'Advanced Settings'. Below the tabs, the interface is divided into two main sections. The left section, titled 'Local Storage Information', contains a table with the following data:

Item	SD Card
Total Capacity	7.41GB
Used Space	2.27GB
Available Space	5.14GB

Below the table, there is a 'Memory Card Management' section with three buttons: 'Reload', 'Remove', and 'Format'. To the right of these buttons is a large area displaying a file tree structure. The tree shows a root folder 'sd' containing four subfolders: 'offline', 'schedule', 'snapshot', and 'videoclip'. The text 'Storage Management' is visible in the bottom left corner of the interface.

Click **Reload** to refresh the list of recorded files.

Click **Remove** to safely remove the Micro-SD/SDHC memory card.

Click **Format** to format the Micro-SD/SDHC memory card.

Left click on the folder to list the recorded files. The user can either play the snapshot of the recorded files by moving the mouse pointer over the file or double click on a file to play it.

Right click on the folder to download, play or delete the recorded files.



NOTE – The user may need to install QuickTime multimedia framework to play the video clips.

Advanced Settings

Storage Management		Advanced Settings	
Automatic Recycle			
Enable	<input checked="" type="checkbox"/>		
Offline Record			
Enable	<input type="checkbox"/>		
File Encryption			
Enable	<input type="checkbox"/>		
Password	<input type="text"/>		
Encryption Ciphers	AES128		
<p>If the Automatic Recycle function is disabled, there must be at least 50MB Hard Drive space available for the network camera to record video.</p> <p>If the Automatic Recycle function is enabled, it will automatically overwrite the recorded files when the available space remaining is less than 100MB.</p>			
<input type="button" value="Apply"/>		<input type="button" value="Cancel"/>	

Automatic Recycle (*) – Enable to automatically overwrite older files when the available space remaining on the Micro-SD/SDHC card is less than 100MB. If the Automatic Recycle function is disabled, there must be at least 50MB hard drive space available for the camera to be able to record video files.

Offline Record – Enable to keep recording if the Network Camera is offline.

FTP Service – Enable to Camera FTP Server. Users can use ftp client to view all the recorded files on the Micro-SD/SDHC card. e.g. ftp://admin:admin@ip_address to connect to the FTP server.

File Encryption – Enable the File Encryption to encrypt recorded video files. Files are encrypted using OPENSSL.

To unlock the encrypted file, please download and install the OPENSSL toolkit from the OPENSSL Web site.

<http://gnuwin32.sourceforge.net/packages/openssl.htm>

Use the following command to encrypted file:

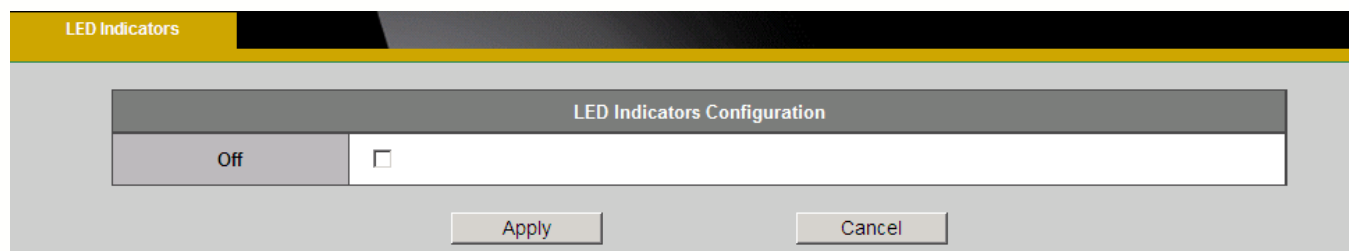
openssl enc -ciphertype [-in filename] [-out filename] [-pass arg] [-e] [-d] [-a/-base64] [-A] [-k password] [-kfile filename] [-K key] [-iv IV] [-S salt] [-salt] [-nosalt] [-z] [-md] [-p] [-P] [-bufsize number] [-nopad] [-debug] [-none] [-engine id]

For example: openssl enc -d -aes128 -in encryptfile -out decryptfile -k password

Click **Apply** to apply settings or **Cancel** to cancel changes.

LED Indicators

The LED on the front of the camera can be configured to remain unlit. Check “OFF” to enable this function.



Click **Apply** to apply settings or **Cancel** to cancel changes.

VMS Compatibility

ONVIF is committed to the adoption of IP in the security market. The ONVIF specification will ensure interoperability between products regardless of manufacturer.

WS-Security – Enable to WS-Security.

Core Specification –Select the ONVIF version for the VMS

Click **Apply** to apply settings or **Cancel** to cancel changes.

VMS Compatibility

ONVIF

WS-Security	<input type="checkbox"/>
Core Specification	1.0 ▾
GetStreamUriResponse	Asynchronous ▾

Apply

Cancel

Click **Apply** to apply settings or **Cancel** to cancel changes.

Maintenance

User Management

This section explains how to enable password protection and create multiple accounts.

User Management

User Management		
Index	User Name	Privilege
1	admin	Administrator
2	viewer	Viewer
3	rviewer	Remote Viewer

Add

Delete

The administrator account name is “admin”, which is permanent and cannot be deleted.

Click **Add** to create an account.

User Management

User Management		
Index	User Name	Privilege
1	admin	Administrator
2	viewer	Viewer
3	rviewer	Remote Viewer

Add

Delete

User Name	<input type="text" value="Robert"/>
Password	<input type="password" value="....."/>
Confirm Password	<input type="password" value="....."/>
Privilege	<input type="text" value="Viewer"/>

Apply

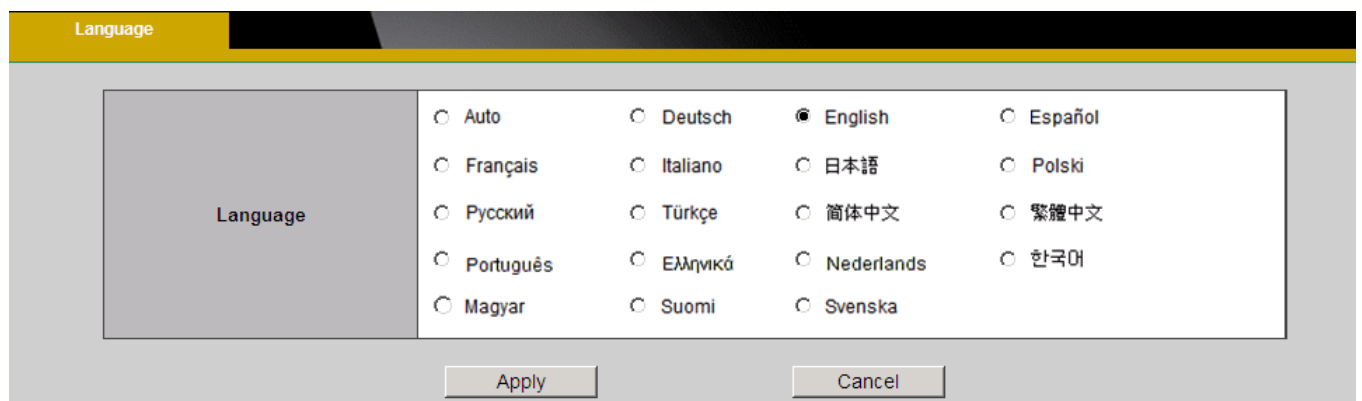
Cancel

Enter the new user’s name, password and confirm password. Administrators can add up to 10 user accounts.

Select the privilege level for the new user account from the drop-down list. Privilege levels can be assigned as:

- ◆ Administrator - user has access to view and change the Configuration page. Users with administrator privilege can change other user's access rights and delete user accounts. Click **Delete** or **Update** to delete or modify a user's account.
- ◆ Viewer - user can only access the main page for live viewing.
- ◆ Remote Viewer - user can only access the main page for live viewing using TCP protocol.

Language



The screenshot shows a web interface for selecting a language. At the top, there is a yellow tab labeled 'Language'. Below the tab, there is a large grey box with the word 'Language' in the center. To the right of this box is a white area containing a grid of radio buttons for various languages. The languages listed are: Auto, Deutsch, English (selected), Español, Français, Italiano, 日本語, Polski, Русский, Türkçe, 简体中文, 繁體中文, Português, Ελληνικά, Nederlands, and 한국어. At the bottom of the white area are two buttons: 'Apply' and 'Cancel'.

Select the desired language from the radio button.

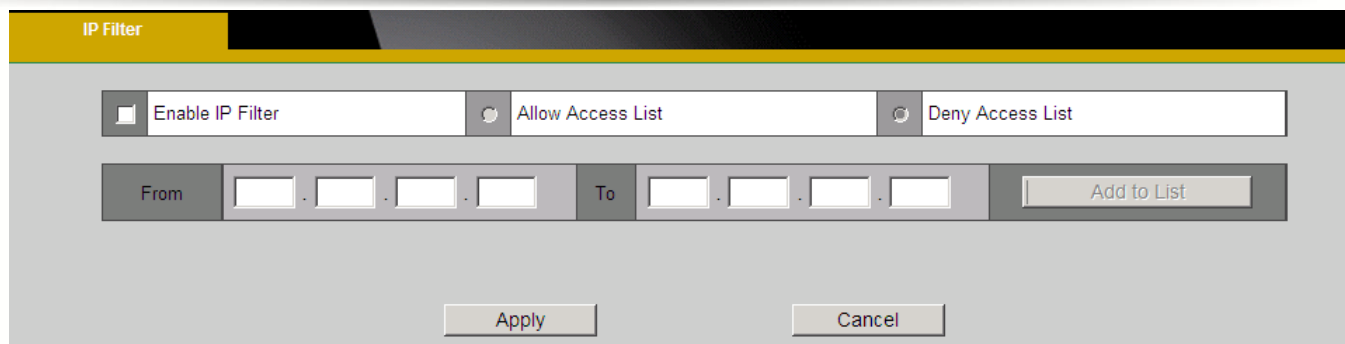
Click **Apply** to apply settings or **Cancel** to cancel changes.

IP Filter

The IP Filter is used to filter the IP addresses which are able to access the network camera.

Enable the IP Filter and select to allow or deny a range of IP addresses access to the server.

Click **Add to list** to add the IP range to the IP filter list.



The IP Filter configuration interface features a yellow header bar with the text "IP Filter". Below the header, there are three radio button options: "Enable IP Filter" (selected), "Allow Access List", and "Deny Access List". Under the "Enable IP Filter" option, there are two IP address input fields labeled "From" and "To", each with four segments for octets. To the right of these fields is an "Add to List" button. At the bottom of the interface are "Apply" and "Cancel" buttons.

Click **Apply** to apply settings or **Cancel** to cancel changes.

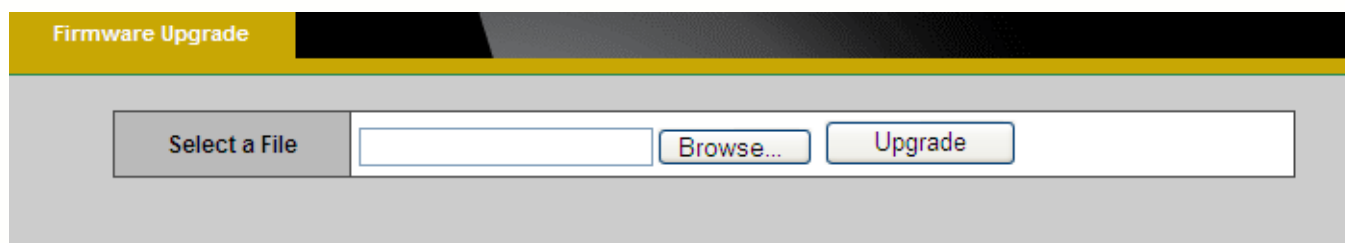
Firmware Upgrade

This feature allows the user to upgrade the camera firmware. It will take a few minutes to complete the process.



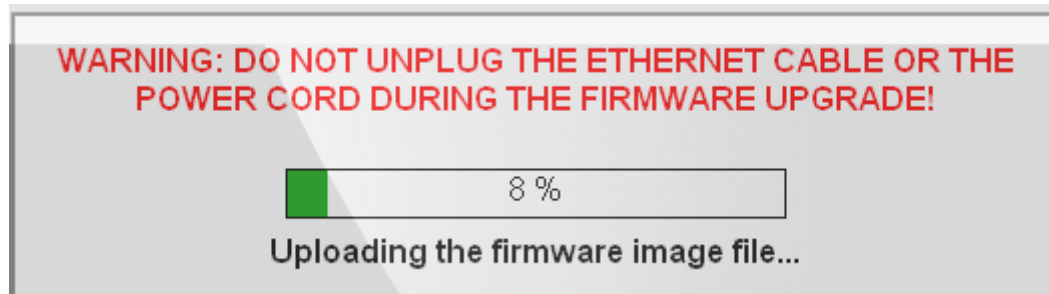
NOTE - Do not power off the camera or camera during the upgrade.

Upgrade - Click **Browse...** and specify the firmware file. Click **Upgrade**. The camera will begin upgrading and will reboot automatically when the upgrade is finished.



The Firmware Upgrade interface has a yellow header bar with the text "Firmware Upgrade". Below the header, there is a "Select a File" button, a text input field, a "Browse..." button, and an "Upgrade" button.

The following message will show during the firmware upgrading process.



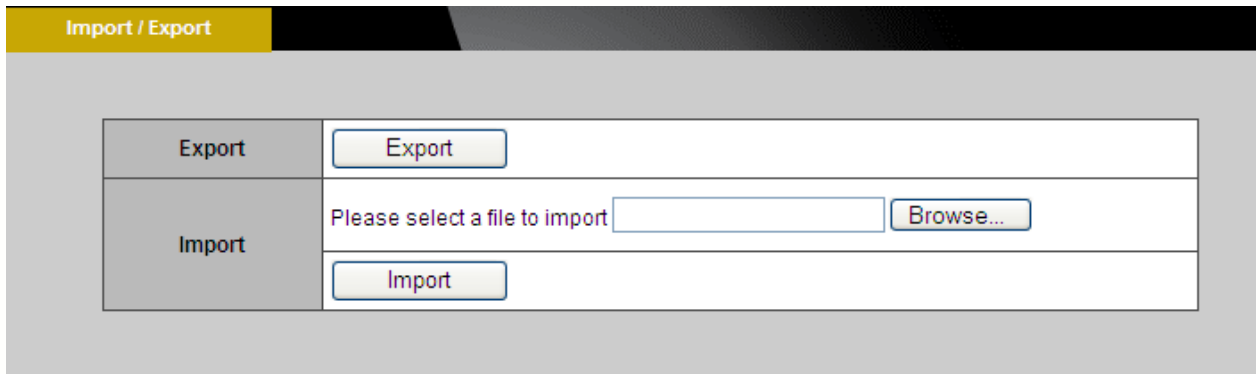
A warning dialog box with a red border and red text. The text reads: "WARNING: DO NOT UNPLUG THE ETHERNET CABLE OR THE POWER CORD DURING THE FIRMWARE UPGRADE!". Below the text is a progress bar showing 8% completion, with a green bar and the text "8 %". At the bottom, it says "Uploading the firmware image file...".

Configuration

This feature allows the user to export/import the configuration files of the network camera.

Import/Export - Click **export** to pop up a dialog to indicate the location and file to export.

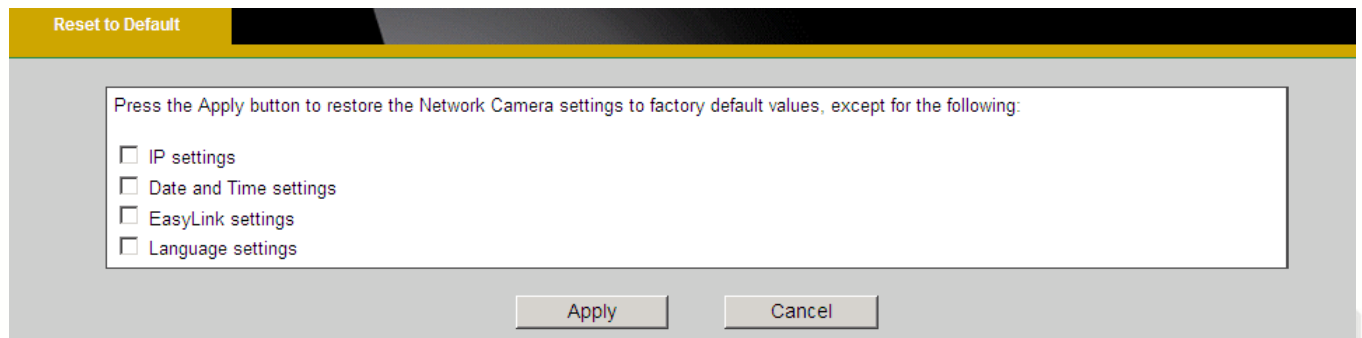
Click **browse** to indicate the location and file of the camera configuration and click **import** to import the configuration file back into the network camera.



The screenshot shows a web interface with a yellow header bar labeled "Import / Export". Below the header is a table with two rows. The first row is labeled "Export" and contains a single button labeled "Export". The second row is labeled "Import" and contains a text input field with the placeholder text "Please select a file to import", a "Browse..." button, and an "Import" button.

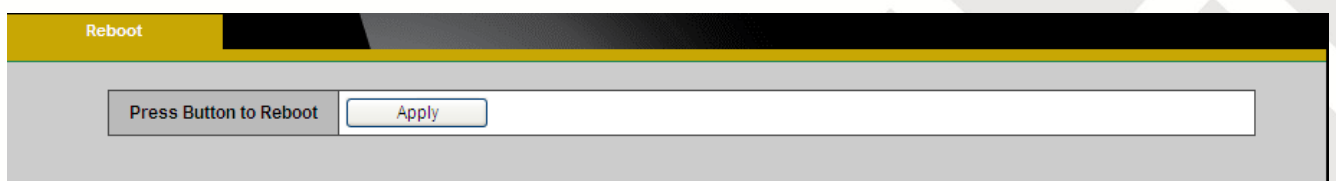
Reset to Default

This section is used to restore the camera to default factory settings. Check the boxes to preserve the IP, Wireless, Date and Time, EasyLink or Language settings. Click **Apply** to restore the camera to default factory settings.



The screenshot shows a web interface with a yellow header bar labeled "Reset to Default". Below the header is a text box containing the instruction: "Press the Apply button to restore the Network Camera settings to factory default values, except for the following:". Below this text box are four checkboxes, each followed by a label: "IP settings", "Date and Time settings", "EasyLink settings", and "Language settings". At the bottom of the page are two buttons: "Apply" and "Cancel".

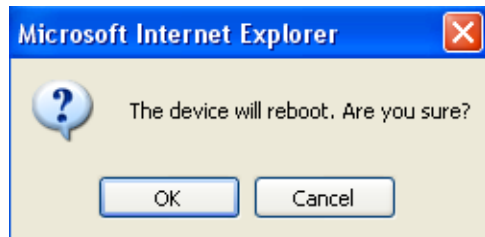
Reboot



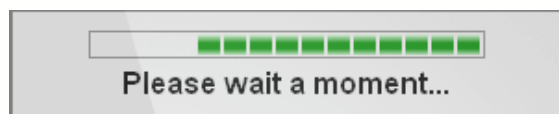
The screenshot shows a web interface with a yellow header bar labeled "Reboot". Below the header is a text box containing the instruction: "Press Button to Reboot". To the right of this text box is an "Apply" button.

This feature will reboot the camera. Click **Apply** to begin. A message will pop up asking "The

device will reboot. Are you sure?" Click "OK" to continue. The camera will take about one minute to reboot.



The following message will show during the rebooting process.



When completed, the live video page will be displayed in the web browser.