EDN800

User's Manual

Product Name: EDN800 EverFocus IP Network Cameras
Model Number(s): EDN800
FCC Notice "Declaration of Conformity Information"

This equipment has been tested and found to comply with the limits for a Class
A digital device, pursuant to part 15 of the FCC Rules. These limits are designed
to provide reasonable protection against harmful interference in a residential
Installation. This equipment generates, uses and can radiate radio frequency energy
and, if not installed and used in accordance with the instructions, may cause harmful
interference to radio communications. However, there is no guarantee that
interference will not occur in a particular installation. If this equipment does cause
harmful interference to radio or television reception, which can be determined by
turning the equipment off and on, the user is encouraged to try to correct the
interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the
receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
Warning: Changes or modifications made to this equipment, not expressly approved
by EverFocus or parties authorized by EverFocus could void the user's authority to
operate the equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the
following two conditions:
  (1) This device may not cause harmful interference, and
  (2) This device must accept any interference received, including interference that
  may cause undesired operation.

EverFocus Electronics Corp.
12F, No. 79, Sec. 1, Shin-Tai Wu Rd., His-Chi,
Taipei Hsien, Taiwan, R.O.C.

EDN800 complies with CE and FCC.

About this document
All the safety and operating instructions should be read and followed before the unit is operated. This manual should be retained for future reference. The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

Safety Notice
-These limits are designed to provide reasonable protection. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna.
-Increase these separations between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

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

⚠ To reduce risk of fire or electric shock, do not expose this appliance to rain or moisture.

⚠ Do not attempt to disassemble the appliance.   To prevent electric shock, do not remove screws or covers.   There are no user-serviceable parts inside. Contact qualified service personnel for maintenance. Handle the appliance with care. Do not strike or shake, as this may damage the appliance.

⚠ Do not use strong or abrasive detergents when cleaning the appliance body. Use a dry cloth to clean the appliance when it is dirty.   When the dirt is hard to remove, use a mild detergent and wipe gently.

⚠ Do not operate the appliance beyond its specified temperature, humidity or power source ratings. Do not use the appliance in an extreme environment where high temperature or high humidity exists. Use the appliance at temperature within 0℃ ~ +40℃ / 32　~ 104　and a humidity below 90%. The input power source for this appliance is 12 VDC & PoE.

⚠ Use only the recommended power supplies. Power supplies must comply with the requirement of the latest version of IEC60950-1. Substitutions may damage the unit or cause a fire or shock hazard.

⚠ Electrostatic-sensitive device. Use proper CMOS/MOSFET handing precautions to avoid electrostatic discharge.

⚠ Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

Terms and Trademark
Ethernet, Internet Explorer, Linux, Microsoft, Windows, WWW are registered trademarks of the respective holders. Other product names appearing in this User's Guide may be trademarks or registered trademarks of their respective holders. Java™ and all Java-related logos and trademarks are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.

Support
If the unit ever needs repair service, the customer should contact the nearest EverFocus Electronics Corp. Service Center for return authorization and shipping instruction.

About AC Adaptor
Specifications for AC adaptor
Power Supply: 12VDC, 1 A
Rated Output: 12VDC, 1 A
Operating Temperature: 0   ~ 40   / 32   ~ 104
External Dimensions: 56 mm x 68 mm x 101 mm / 2.24" x 2.72" x 4.04"

TABLE OF CONTENTS

1. INTRODUCTION

The EDN800 vandal dome network camera provides *H.264, MPEG-4 and MJPEG* compression for multi-streaming capabilities. H.264 is the most advanced video compression technology that saves your bandwidth without sacrificing video quality. Supported with *PoE* (Power over Ethernet) IEEE802.3af, EAN850A is equipped with build-in *SD card* slot for local storage.

Designed with advanced digital processing circuitry for high resolution 1/3" color CCD sensor, it can control AGC, BLC, FL, ES, H-Mirror, IRIS Level and Day/Night function through web browser. EDN800 uses a vari-focal auto IRIS lens for discreet surveillance or close-up viewing and it features with IRIS level control for the best viewing quality.

2. FEATURES

- Built-in H.264, MPEG-4 and MJPEG digital signal output at Full D1 image size with up to 30fps.
- H.264/MPEG4/MJPEG multi stream output for simultaneous live monitoring and high resolution recording.
- Support 4 independent video streams that can provide different compression formats and resolutions.
- The high sensitivity of 0.4Lux/F=1.2 is achieved by using the advanced 1/3"Sony Super HAD color CCD.
- Built-in Vari-focal Lens.
- Power over Ethernet (PoE) IEEE 802.3af.
- Support MDI/MDI-X auto crossover function.
- Bandwidth control:64K/128K/256K/1M/2M/4M/8M kbps and unlimited.
- Built-in network interface (10Base-T/100Base-TX) for remote monitoring by PC.
- Smart Wizard settings for various event and schedule recording conditions.
- Built-in SD memory card slot for local storage and support SD High Capacity (SDHC).
- Built-in digital motion detection.
- Built-in digital zoom function.
- AGC, BLC, FL, ES, H-Mirror, IRIS Level and Day/Night function control through web browser.
- Manual PAN/TILT mechanism for easy lens adjustments.
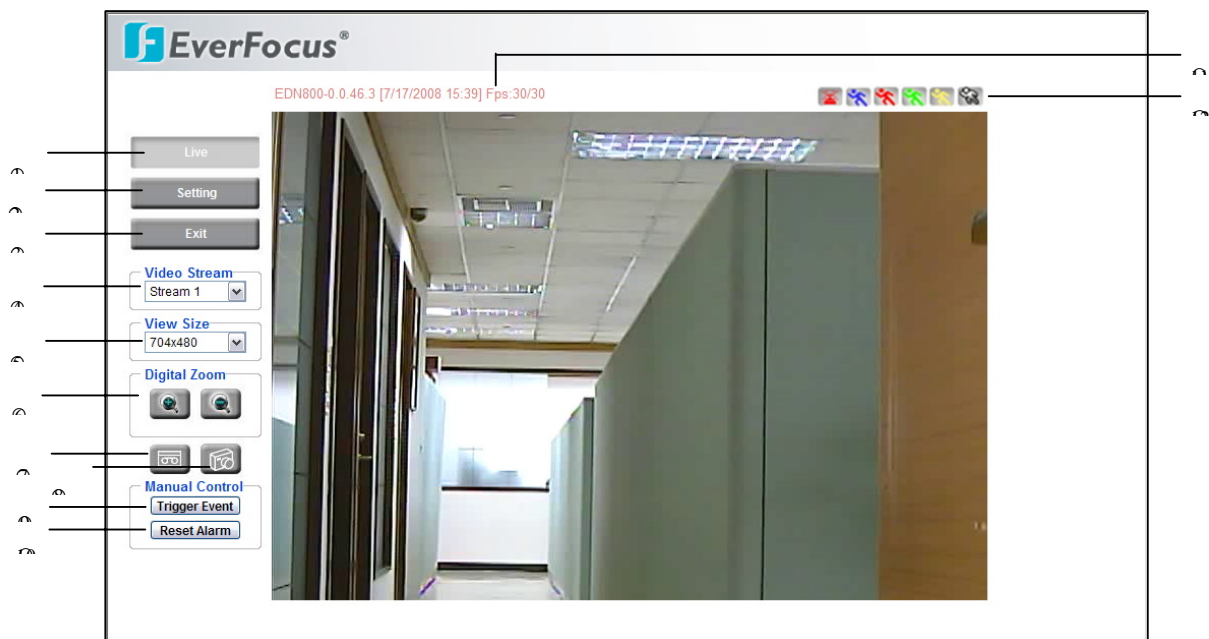- Vandal Resistant.

3. OPERATION WINDOW

Step 1.Start a browser.

Step 2. Enter the IP address or host name of the camera in the **Location/Address** field of your browser.

Step 3. Input "Username" and "Password". Default Username is "user1" and default password is "11111111".

Step 4. Click "Login" button.

Step 5. Congratulation!! You should be able to see the live image now.

① Press [Live] button to display the "Live" page.

Double click on the image to show a full screen display, double click again or press ESC to return normal display.

② Press [Setting] button to enter Setting page. In Setting page, there are 7 sections: [System Info], [User Config], [Network], [Video], [User], [Event] and [System]. Please refer to "3. Setting" for further information.

[Exit]

③ Press   button to close EDN800 network page.

④ Video Stream

Select Video Stream from Stream 1 / Stream 2, Stream 3 and Stream 4. Please refer to "3.4.1 Multi Streaming" for further information.

⑤ View Size

You can select View size to either reduce or enlarge the image to the appropriate view size.

Select the view size for live images from:
704*480/640*480/352*240/320*240/176*120

⑥ Digital Zoom

Press "+" or "-" button to enlarge / reduce the displayed image. (max. is X10)

⑦ Record

The record button is used to record the current video stream. The location where the image file is saved can be specified in Setting -> User's Config. Please refer to "3.2 User Config" for further information.
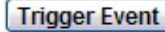
> *Note:*
> *Record segment is limited to 5 min. If you need to do long time recording, please set schedule recording. For more details about schedule recording, please see "3.6 Event".*

⑧ Snapshot

The Snapshot button saves a snapshot of the video image currently being displayed. The location where the snapshot data is saved can be specified in Setting -> User's Config. Please refer to "3.2 User Config" for further information.

Ⓨ Manual Control – Trigger Event

| Trigger Event |

Press "Trigger Event" button to trigger an event directly from live view page, and event actions will be effective if they have been set in "Event" menu.
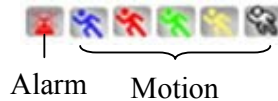
Ⓩ Manual Control – Reset Alarm

| Reset Alarm |

Press "Reset Alarm" button to reset alarm output remotely.

⑪ Status Display

The name of the camera whose settings currently being configured, current date/time and current frame rate will be displayed.

⑫ Event signals

Alarm   Motion

When an alarm or motion event is triggered, a signal icon will flash to alert user. The first icon is for alarm event and rest of the 5 icons are for motion event. The motion event icons which differed by colors correspond to the motion trigger areas you have set in Motion menu. Please refer to "3.6.2 Motion" for detailed information about Motion setup.

3. Setting
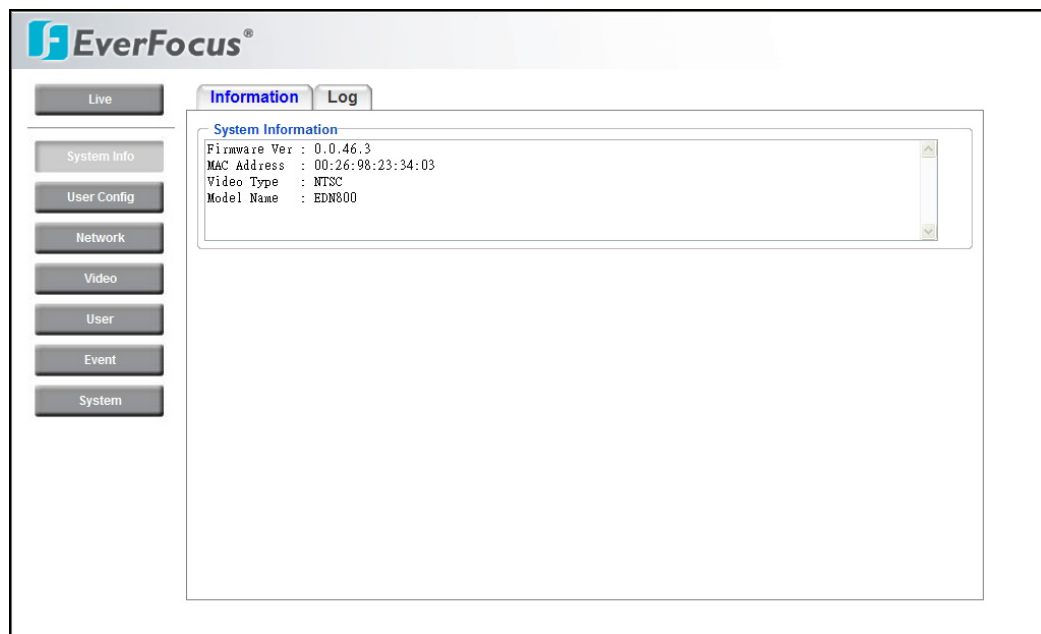
Click this button to display the setup menu.
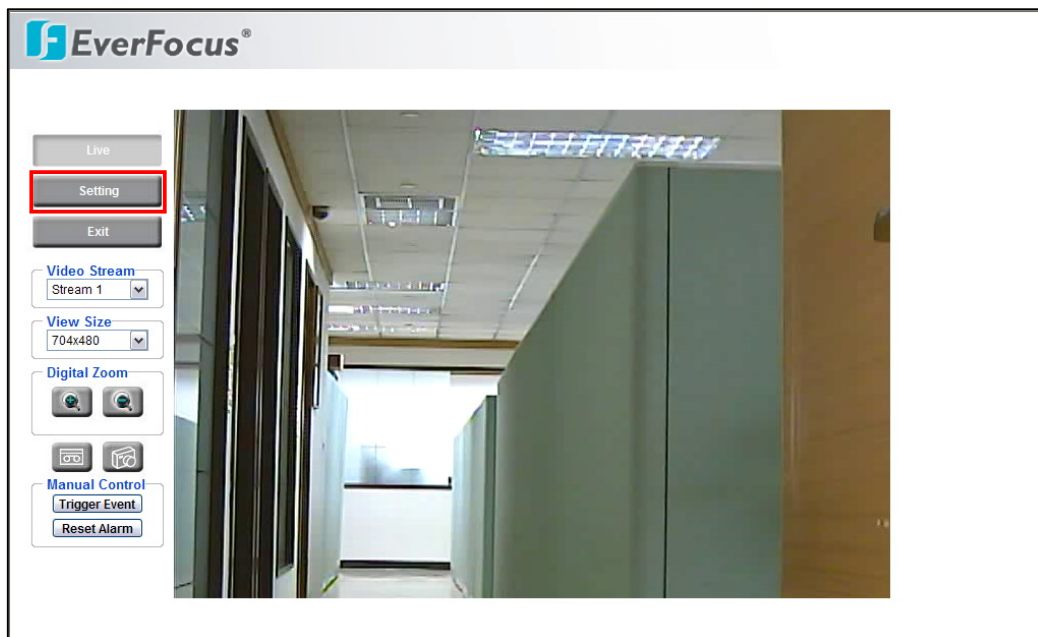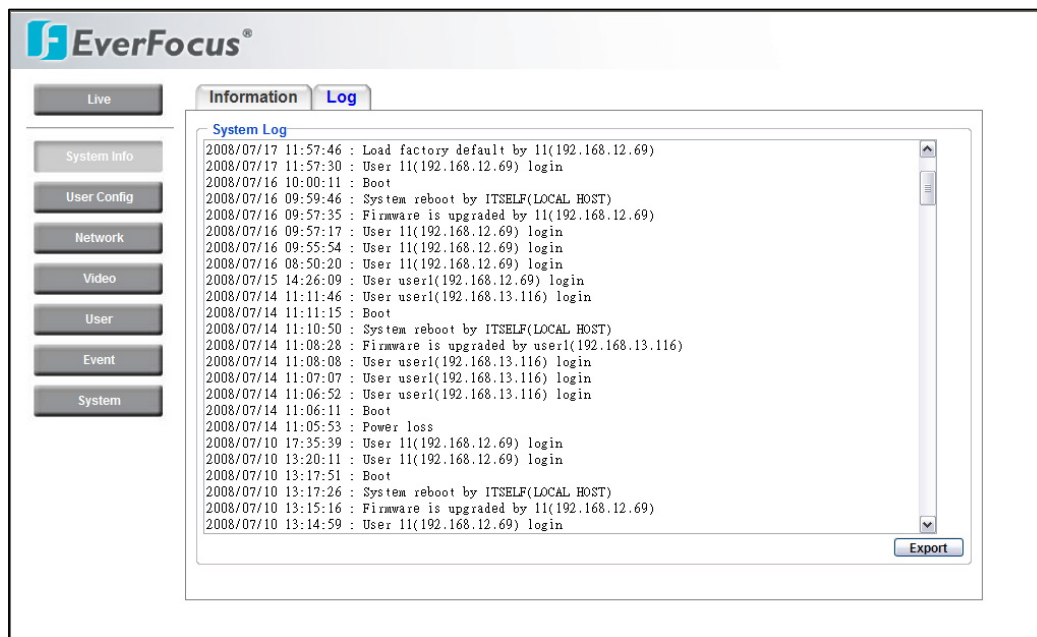

3.1 System Info

System information and system log check of the setup menu can be performed on this page. The "System Info" page has 2 tabs of the [Information] tab and the [Log] tab.

3.1.1 Information

System Information: Firmware version, MAC address, Video Type, Model number. (unchangeable, for reference only)
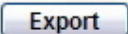

3.1.2 Log
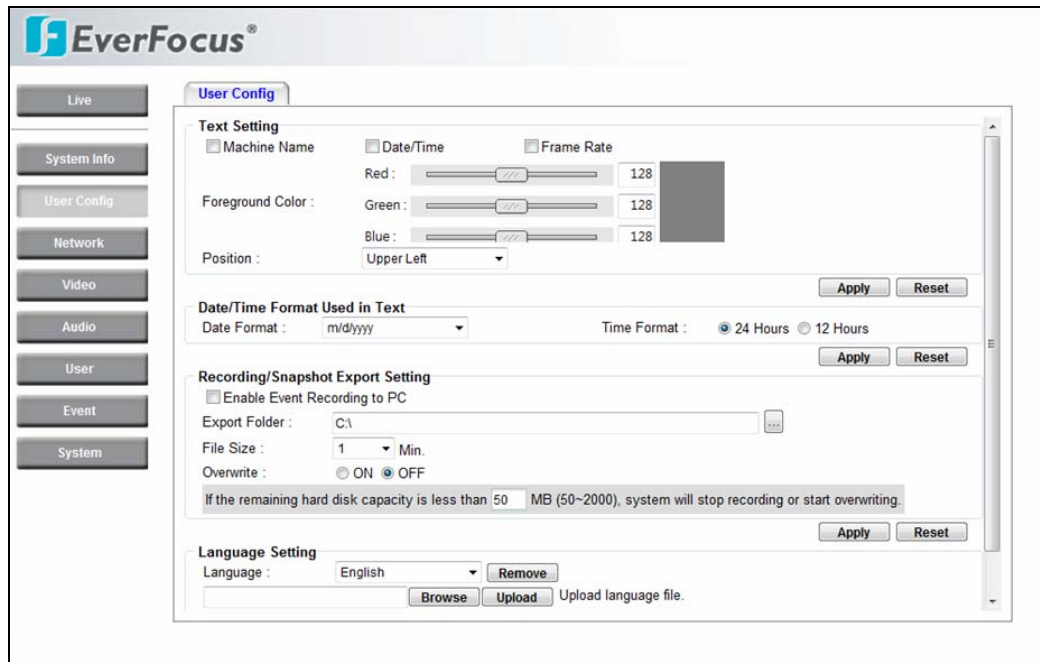
System Log:

Date/Time: displaying date and time of the log.

Log message: all information and event message, including login, user's IP, reboot, firmware upgrade, load factory default, configuration reset and event detected. System will keep the newest 256 records.

Press [Export] button to export system log into ".txt" file and select the location where the exported log file will be saved to.

3.2 User Config

Live view configuration is to be set by user. Each login user can make his/her own settings for the following items:

Text Setting

Check the box for text of **Machine name**, **Date/Time** or **Frame Rate** to be displayed on the screen.
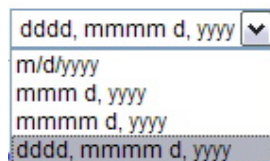
Text Color
Foreground Color: Select the foreground color of text to be displayed by moving the slide bar between **Red**, **Green** and **Blue** until your desire color is obtained.

Position: Select the position where the text will be displaying from Upper Left / Lower Right / Lower Left.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Date/Time Format Used in Text
Select Date/Time Format from the following options:

Time Format: 24 Hours or 12 Hours.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Recording/Snapshot Export Setting

Enable Event Recording to PC: Allow event video recorded to users' PC if any events have been set to record to PC.

Export folder: Select Export folder by clicking on ⬚ button, then direct to the folder to be exported.

File size: Able to limit the size of the single recording file in minutes. When the single recording file size exceeds the time you set, system will create a new file to continue recording.

Overwrite: Select "ON" for overwriting recording/snapshot file when the disk storage capacity is full.

If the remaining hard disk capacity is less than ____ MB (enter the value you wish to set between 50~2000), system will stop recording or start overwriting.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Language Setting

Language: Select the language to be displayed in web page. Default language is English. To add a new language which is not listed in the original configuration, press the Browse button to locate the new language file (.evb) and then click the Load button.

> *Note:*
> *1. Maximum five languages can be in the language list.*
> *2. Upload a new language file will reboot system automatically. Please reconnect IP camera after reboot.*
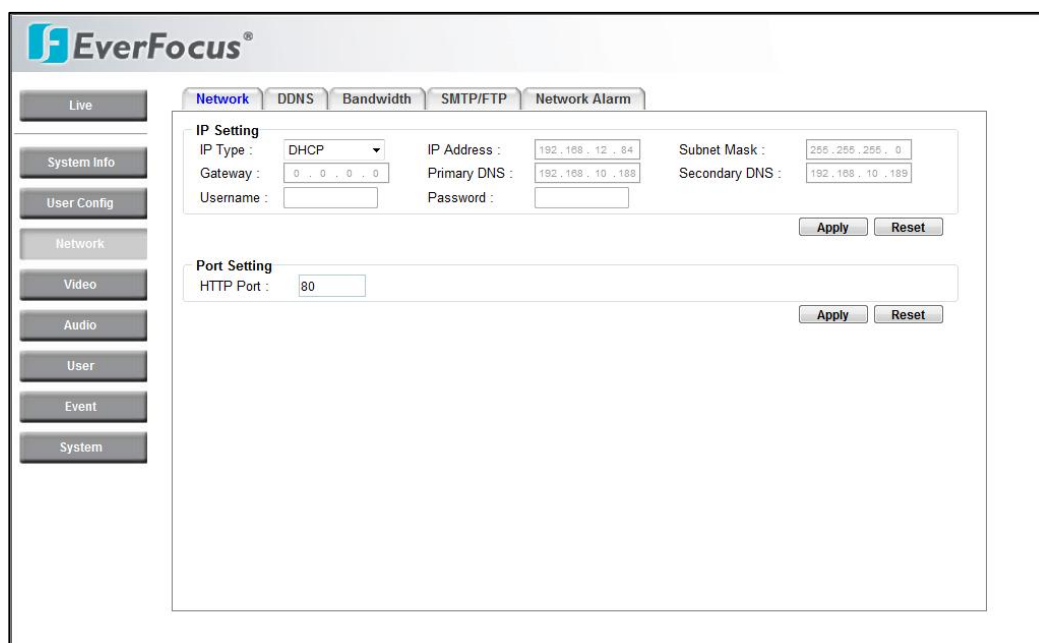
Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.3 Network

The network settings and the settings relating to Network, DDNS, Bandwidth, SMTP/FTP and Network Alarm can be configured on this page.
The "Network setup" page has 5 tabs of the [Network] tab, the [DDNS] tab, the [SMTP/FTP] tab and the [Network alarm] tab.

3.3.1 Network

The following information is required to configure the network settings. Contact the network administrator or your Internet service provider.
• IP Type
• IP address
• Subnet mask
• Gateway (when using the gateway server/router)
• Primary DNS, Secondary DNS (when using DNS)
• HTTP Port

IP Setting

IP Type

DHCP: Configure the DHCP server not to assign the same IP addresses used for the other network cameras and PCs whose IP address is unique.

Refer to the network administrator for the settings of the server.

Default: DHCP.

Static IP: User can manually set the static IP for network connection.

PPPoE: This is a DSL connection application, ISP will ask user to input user name and password.

> *Note: If PPPoE is used as IP type, IP Utility software will not be able to detect the device.*

IP address

When not using DHCP, enter the IP address of the camera. Do not enter the IP address already used for PC or other network cameras.

Subnet Mask

This field is to set the netmask for your network so as the IP camera will be recognized within the network. Example: 255.255.255.000. When DHCP is selected, the DHCP server will assign this value automatically.

Gateway

This field is to set the gateway for your network so the IP camera will be recognized within the network. When DHCP is selected, the DHCP server will assign this value automatically.

Primary DNS

An IP address of DNS server that is provided by ISP.

Secondary DNS

If your ISP provides you an IP address secondary DNS, please set it here.

Username

Enter User name of the account (used only for PPPoE).

Password

Enter Password of the account (used only for PPPoE).

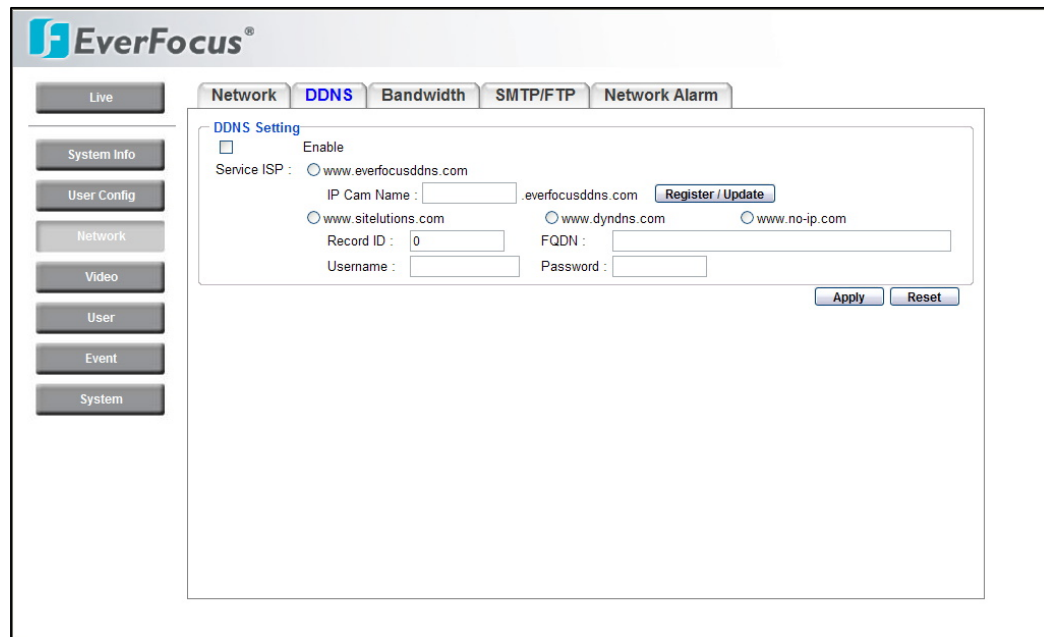Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Port Setting

HTTP Port

Port number for HTTP/WEB communication.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.3.2 DDNS

DDNS setting

When accessing the camera via the Internet from the network environment of which the global IP address is obtained using DHCP, the DDNS function is necessary.
To use the DDNS function, it is necessary to connect to the dedicated DDNS server. We offer 4 DDNS server providers as follow:
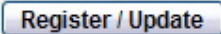○ www.everfocusddns.com
○ www.sitelutions.com

○ www.dyndns.com
○ www.no-ip.com

Enable: Check the box to enable DDNS setting.

Service ISP: If you choose EverFocus DDNS server, you can obtain a free account name from EverFocus "www.everfocusddns.com".

Enter an IP Cam Account Name: _____.everfocusddns.com
Press [Register / Update] button to register or update DDNS account.

If you wish to get a domain name from other DDNS provider, it is necessary to configure Record ID, FQDN, Username and password and register in DDNS server. Refer to the web site for further information about the DDNS.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.
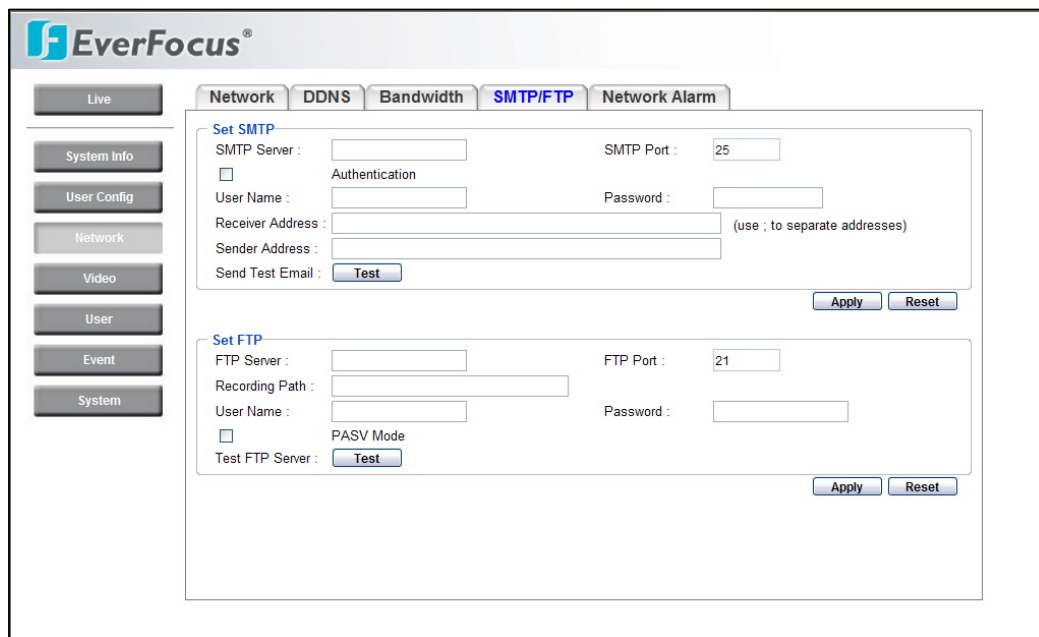
3.3.3 Bandwidth
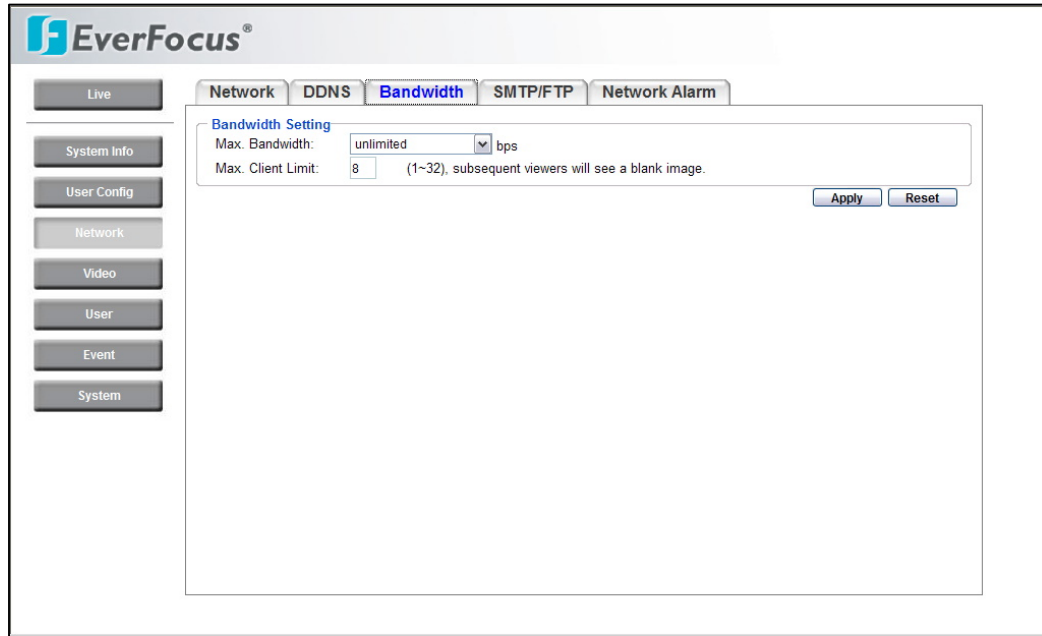
Bandwidth Setting

Max. Bandwidth: Specify, Unlimited / 64 K/ 128 K/ 256 K / 512 K / 1M / 2M / 4M / 8M bps. the maximum bandwidth that the camera is allowed to use on the network. This is a useful function when connecting the camera to busy or heavily loaded networks. The default setting is Unlimited.

Max. Client Limit: enter a value here to restrict the number of clients accessing the camera. This is useful if you need to save on bandwidth. Up to 32 clients is allowed to see live video simultaneously. Subsequent viewers will see a blank image.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.3.4 SMTP/FTP

Set SMTP

The settings relating to the mail server used to send the e-mail notification from the camera to predefined addresses via SMTP can be configured.

SMTP Server: Enter the IP address or the host name of the SMTP server used to send e-mails.

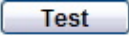SMTP Port: Enter the port number for SMTP. Default is 25.

Authentication: Check the box, if the SMTP server requires Authentication (user/password).

User name: Input the login user ID if the SMTP server requires Authentication.

Password: Input the password if the SMTP server requires authentication.

Receiver Address: Input the e-mail address for receiving e-mail message when the EVENT is enabled and triggered. Please use "**;"** to separate address.

Sender Address: Input sender's e-mail address, so that receiver can recognize the sender when an event message is sent out.

Send Test Mail: Press [Test] button to send a testing mail to the assigned address.

Set FTP

The settings relating to the FTP server used to transmit the alarm images can be configured.

FTP Server: Enter the IP address or the host name of the FTP server.
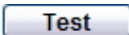
FTP Port: Enter the port number for FTP server. Default is 21.

Recording Path: Assign the recording path.
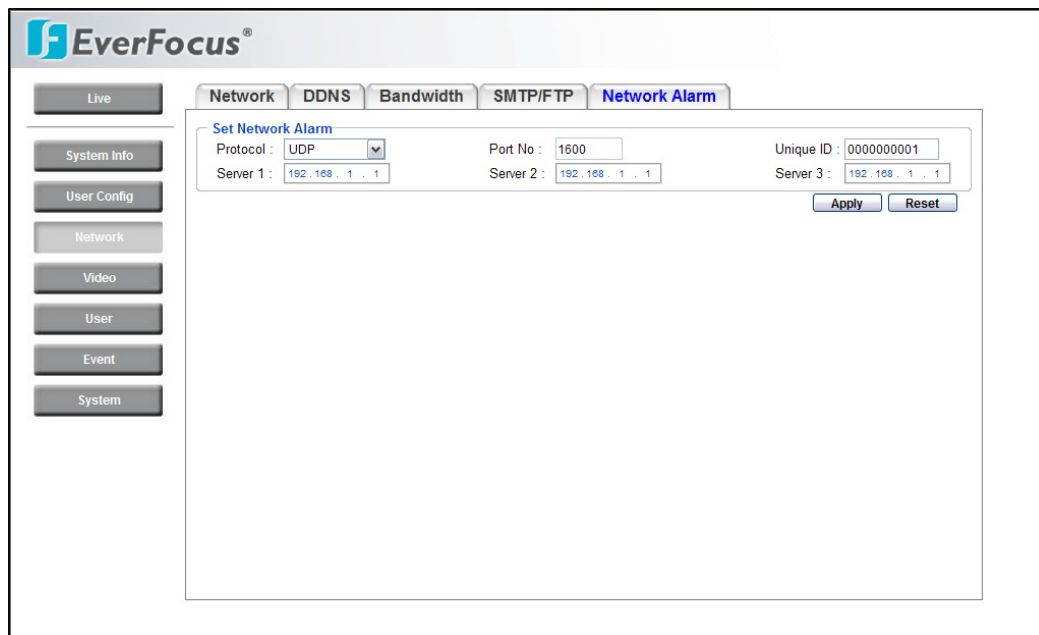
User Name: Set FTP User's name.

Password: Set FTP password.

PASV mode: Check to enable Passive mode, normally enable Passive mode. When failed to establish the connection, uncheck "PASV" mode.

Test FTP Server: Press [Test] button to send a testing file to the assigned FTP server.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.3.5 Network Alarm (reserved for PowerCon)
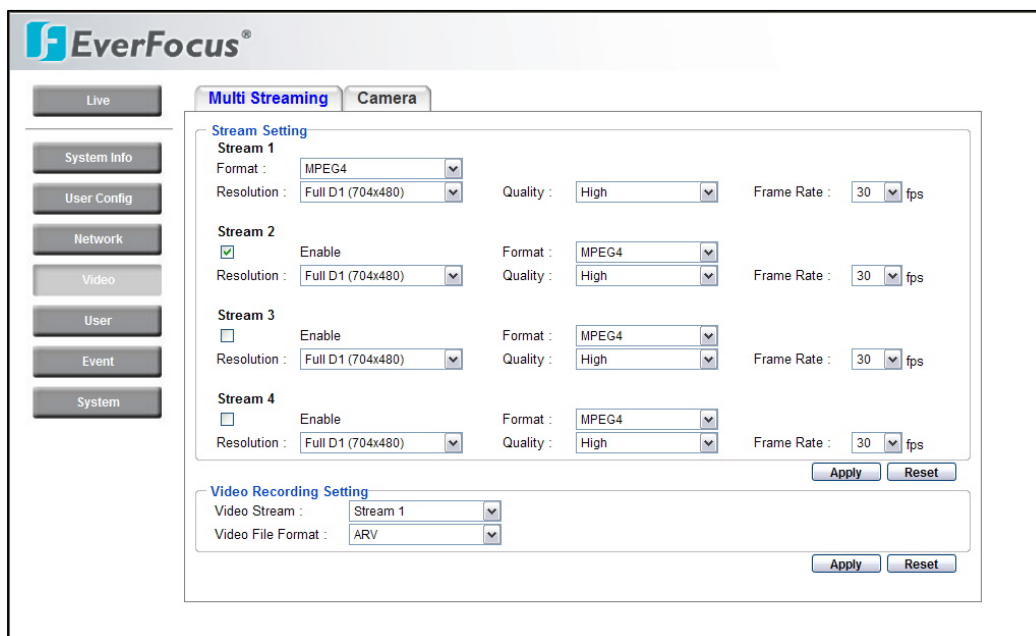

Set Network Alarm

This function is reserved for PowerCon software, for the detail setting please refer to PowerCon network alarm protocol.

3.4 Video

The settings relating video such as streaming, camera OSD can be configured on this page.

The "Video" page has 2 tabs of the [Multi-streaming] tab and the [Camera] tab.

3.4.1 Multi Streaming

Stream Setting

The system can output 4 video streams simultaneously. For each of them, user can set compression format, resolution, quality and frame rate individually. Stream 1 is always enabled for live view.

Check "Enable" box to enable other streams.

Format: Select encode format from H.264, MPEG4 and MJPEG..

Resolution: NTSC: 4CIF (704*480) / VGA (640*480) / CIF (352*240) / QVGA (320*240) / QCIF (176*120)
PAL: 4CIF (704*576) / VGA (640*480) / CIF (352*288) / QVGA (320*240) / QCIF (176*144)

Quality: there are 8 types of quality, please choose from Highest / Higher / High / Middle / Normal / Low / Lower / Lowest.

Frame Rate: select from NTSC: 1 / 3 / 5 / 15 / 30 fps, PAL: 1/ 2.5/5/12.5/25 fps

> *Note:*
> *1. Total frame rate cannot exceed 60 fps.*
> *2. System performance may be influenced if user enables 4 video streams*

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Video Recording Setting

User can set video recording by selecting one of the enabled video streamings. This will allow user to view live images as well as to record video of the other video streaming.

Video Stream: Select video recording stream from any enabled stream.

Video File format: Recording file will be saved as AVI or ARV, select which file format to be used.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.4.2 Camera
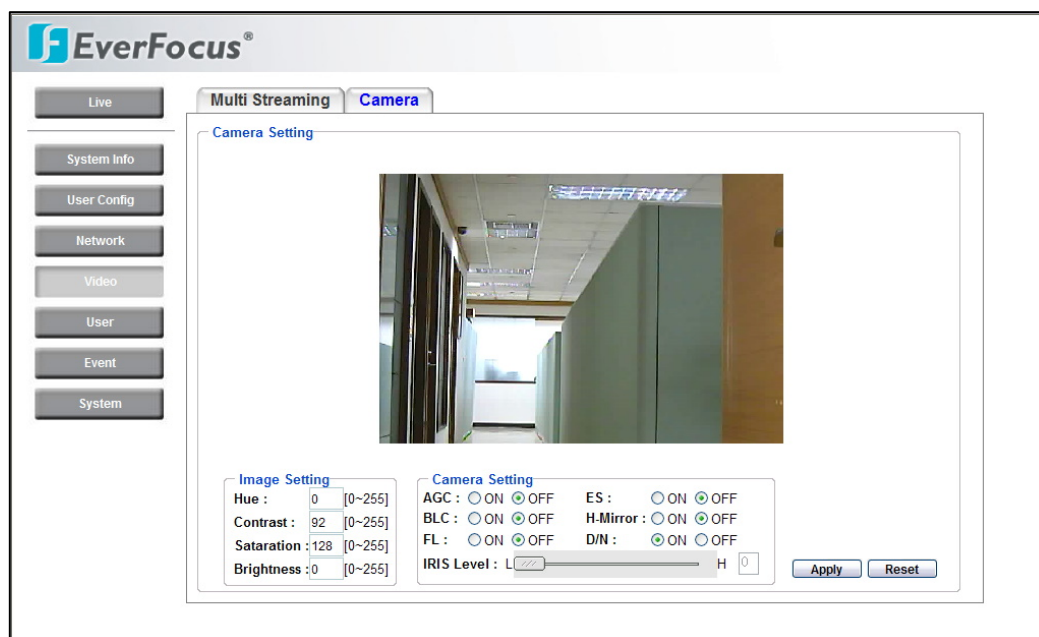
Camera Settings

The "Camera OSD setting" can be displayed on a video monitor and can be configured using the operation buttons on this page.

Image setting

Hue: to increase or decrease hue of video images. It is adjustable from 0~255.

Contrast: to increase or decrease object contrast of images. It is adjustable from 0~255.

Saturation: to increase or decrease color saturation of video images. It is adjustable from 0~255.

Brightness: to increase or decrease object contrast of images. It is adjustable Brightness from 0~255.

Camera Setting

AGC: Select ON or OFF for Auto Gain Control.

ON: when illuminance becomes darker, gain will automatically be incremented and screen will become brighter.

OFF: Gain will not be incremented.

ES: Select ON or OFF for Electronic Shutter.

ON: the auto control of the shutter speed can be performed according to the

brightness of the screen.

OFF: Disable electronic shutter.

BLC: Select ON or OFF for Backlight Compensation.

ON: When the background of the subject is very bright and the subject itself is dark, set the BLC ON.   The BLC will measure the light of the image center and the lens iris will automatically set for optimum image quality.

OFF: Backlight will not be compensated.

H-Mirror: Select ON or OFF for Horizontal Mirror.

ON: Enable a horizontal image inversion.

OFF: Disable the inversion.

FL: Select ON or OFF for Flickerless.

ON: When picture flicker fiercely, turn FL on, then the camera will stabilize the speed of electronic shutter automatically, and reduce the flicker immediately.

OFF: Disable Flickerless function.

D/N: Select ON or OFF for Day/Night function.

ON: Enabling the image to turn from color to B/W when the illumination is about 5 Lux

OFF: Disable D/N function.

Iris Level: Brightness Level can be adjusted from the IRIS level while using the direct drive lens. Move the slide bar toward H to get brighter picture. Move the slide bar toward L to get darker picture.

> *Note:*
> *1. If ES is on, FL takes no effect. ES>FL.*
> *2. If AGC is off, BLC has no effect., BLC works when AGC is on. AGC > BLC.*
> *3. AGC must be on to Day/Night auto switch function work.*
>
> *4. If ES is on, IRIS level adjustment takes no effect, ES> IRIS level.*

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.5 USER

 User Information

Maximum 10 users can be set for using the IP camera. The **user information**
displays the authorized users and access levels:

• **Supervisor/Administrator** –a supervisor/administrator has unrestricted access to
the Setting menu and can determine the registration of all other users. However,
administrator is not allowed to change supervisor's account and password.

• **User**- a user can view the Live View page, system info, network, video and
adjust user config settings. The user does not have access to the "user", "event"
and "system pages".

• **Guest**- the lowest level of access, which only allows the user access to the Live
View page.

Note:
Please select Active in Status section to activate user account.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the
change.

3.6 EVENT

An event in the camera is when an Event Type is activated and causes certain actions to be performed. The event type is the set of conditions that specifies how and when which actions will be performed.

This table describes how to setup action types and event type.

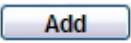| Action Type \ Event Type	Alarm Input	Manual Trigger	Motion Detection	Schedule Recording	Pre/Post-Alarm
Trigger Alarm	x	x	x		
Send Mail notification	x	x	x		
Upload to FTP**	x	x	x		x
Record to SD Card	x	x	x	x	x
Record to PC*	x	x	x	x	x
Network Alarm	x	x	x		
Re-trigger	x	x	x		

*Note: 1. * Record to PC only works when PC and IP camera are connected.*
*2. **Either Upload to FTP or Record to Network Storage can be selected to record event video to remote site.*
3. Up to 10 event types can be configured in the camera, and up to 3 of these can be configured to upload images.

3.6.1 Event

The settings relating to event occurrences such as settings for the event occurrence, motion, alarm and time mask can be configured on this page.

The "Event" page has 4 tabs of the [Event] tab, the [Motion] tab, the [Alarm] tab and the [Time Mask] tab.
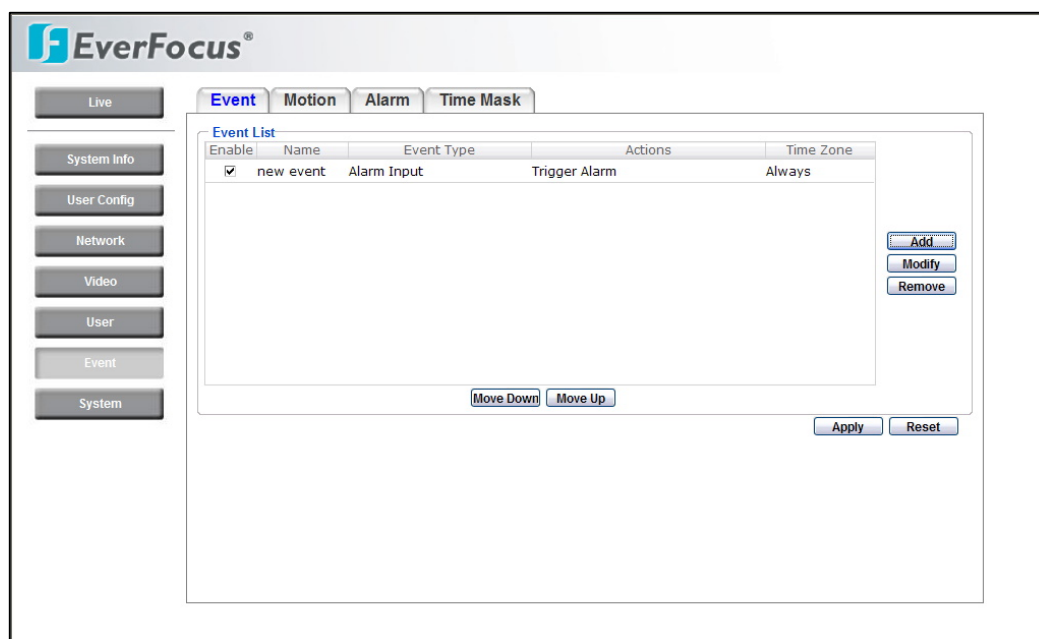
Press ⟨ Add ⟩ button to add an event condition.

To modify the event list, click on the event and it will be highlighted. Press

⟨ Modify ⟩ button to modify the setting.

To remove an event from event list, click on the event and it will be highlighted.

Press ⟨ Remove ⟩ button to remove the event.

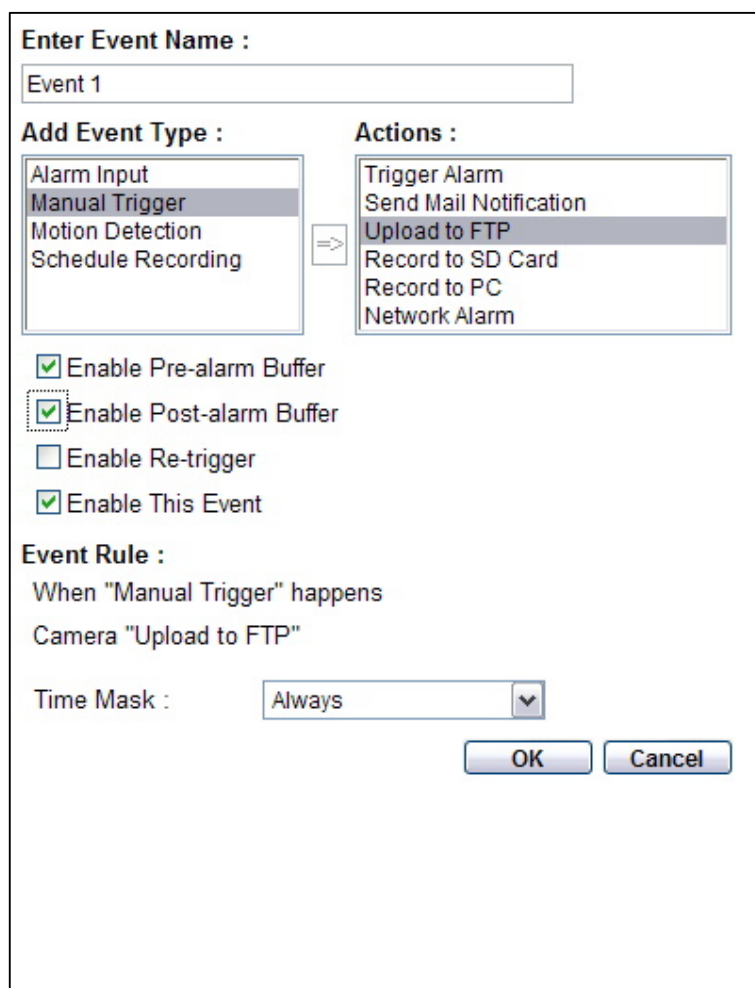Check **Enable** checkbox to activate event actions when the event occurs in the specified time zone.

To change the priority of events, click on the event and it will be highlighted. Press

Move Down or Move Up button to move between events. The event that has

highest priority will be activated first.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the

change.

This example describes how to set the camera to upload images to FTP when

someone press Manual trigger button:

Enter Event Name :

Event 1

Add Event Type :

Alarm Input
Manual Trigger
Motion Detection
Schedule Recording

Actions :

Trigger Alarm
Send Mail Notification
Upload to FTP
Record to SD Card
Record to PC
Network Alarm

☑ Enable Pre-alarm Buffer

☑ Enable Post-alarm Buffer

☐ Enable Re-trigger

☑ Enable This Event

Event Rule :

When "Manual Trigger" happens

Camera "Upload to FTP"

Time Mask :   Always

OK   Cancel

1. Click   Add   button in Event page.

2. Enter an event name for the event, e.g. Event 1

3. Select "Manual Trigger" as event type.

4. Select "Upload to FTP" as action type.

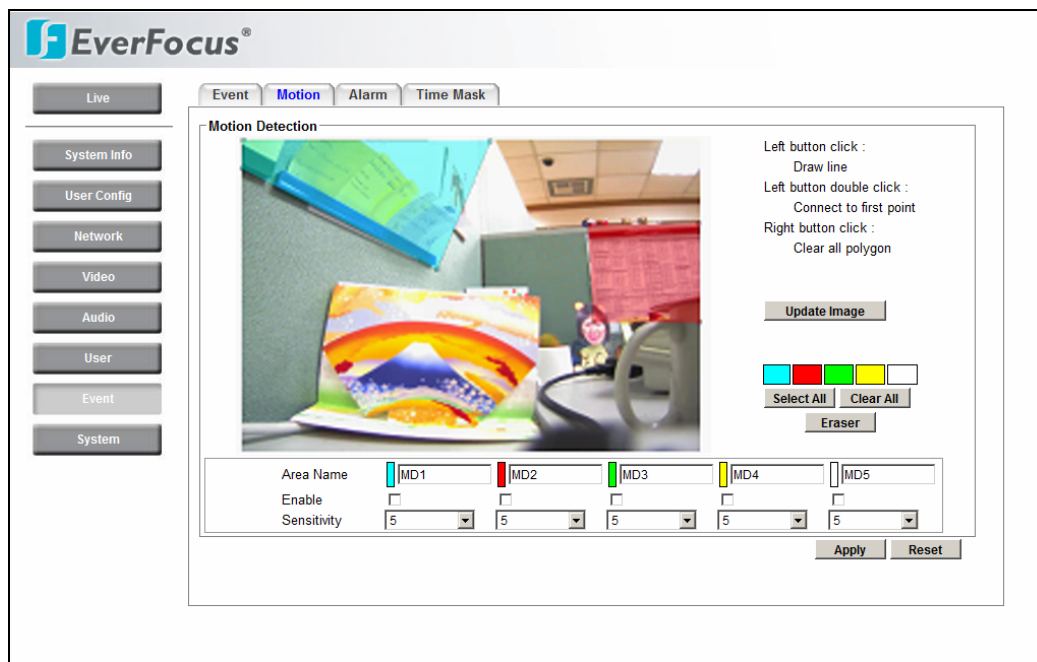5. Check "Enable Pre-alarm Buffer" and "Enable Post-alarm Buffer". For pre-and

post alarm buffer setting, please refer to "3.6.3 Alarm".

6. Check "Enable This Event".

7. Select "Always" for time mask. For detail about Time Mask, please refer to "3.6.4 Time Mask".

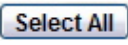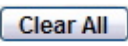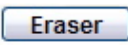8. Click [OK] to save this event in event list.

3.6.2 Motion

Motion Detection

User can define the motion area to be detected by left clicking the mouse to draw lines. Every click is an end point of the line. When the detection area is formed, double click the mouse to have all the lines connected. To remove the selection, simply right click the mouse, the selected polygon will be deleted.

Press [Update Image] to update the current image.

Press [Select All] to have the entire screen selected for motion detection.
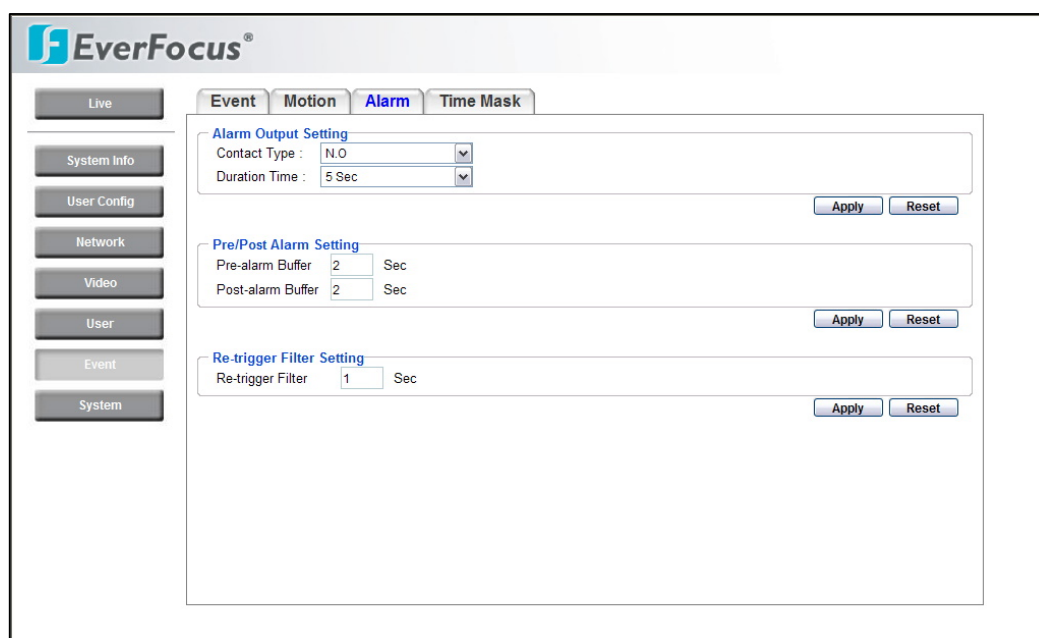
Press [Clear All] to clear all selections.

Press [Eraser] and click on the polygon, to erase that polygon.

There are 5 motion trigger areas, which can be distinguished by 5 different colors.
Check **Enable** checkbox to enable event action.

For each of them, you can set the event action to be activated. Event action can be set in "Event" section.

Moreover, you can set the **Sensitivity** level for motion triggered by selecting from 1 (low), 2, 3, 4, 5, 6, 7, 8, 9 to 10 (high).

3.6.3 Alarm

Alarm Output Setting

Contact Type: Normal Close, Normal Open
Duration Time: Select duration time of alarm output from 5 sec, 10 sec, 20 sec, 30 sec, 60 sec, 2 min, 3 min and 5 min.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Pre/Post Alarm Setting

This function is used to check what happened immediately before and after a trigger, e.g. 5 seconds before or after a motion has been detected.

Pre-Alarm Buffer: Image saved internally in the server from the time immediately preceding the trigger. Input the desired length of pre-trigger buffer time. It can be

set up to 120 seconds.

Post-Alarm Buffer: Image saved internally in the server from the time immediately after the trigger. Input the desired length of post-trigger buffer time. It can be set up to 120 seconds.
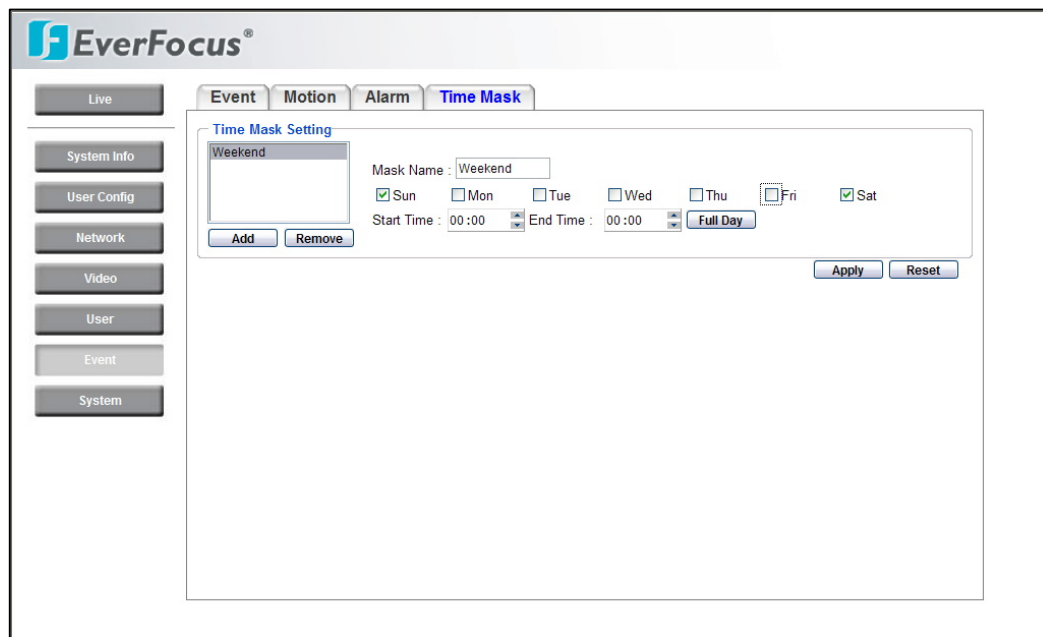
Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Re-trigger Filter Setting

Re-trigger Filter: Set a re-trigger filter time, if another event is triggered during this time, this triggered event will be ignored.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.6.4 Time Mask

Time Mask Setting

Time mask setting allows you to schedule event actions.

Select **Always** for event action to be taken continuously.

Press [Add] button to add new time period.

Mask name: Input a mask name for the new time period.
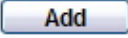
Check the check box for the day to be scheduled: Sun, Mon, Tue, Wed, Thu, Fri & Sat.

Set the **Start time** and **End time** for time mask by clicking Up arrow or Down arrow. Or simply press [Full Day] for a full day of event action.

Press [Remove] button to remove a scheduled time period.

An example on how to set weekend as time mask is as follows:
1. Click [Add] from time mask setting.
2. Enter Mask name, e.g. Weekend.
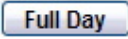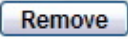3. Check "Sun" & "Sat" boxes.
4. Select "Start time" and "End time" or "Full day".
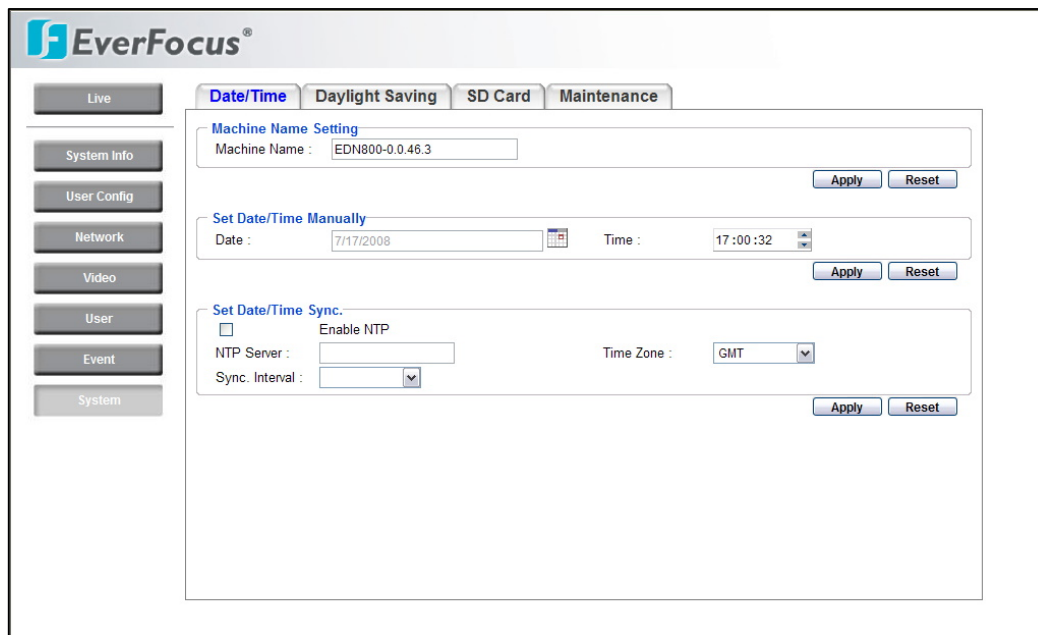
Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.7 SYSTEM

Date/Time, Daylight Saving, SD card and Maintenance settings can be performed on this page.

The "System" page has 4 tabs of the [Date/Time] tab, the [Daylight Saving] tab, the [SD card] tab and the [Maintenance] tab.

3.7.1 Date/Time
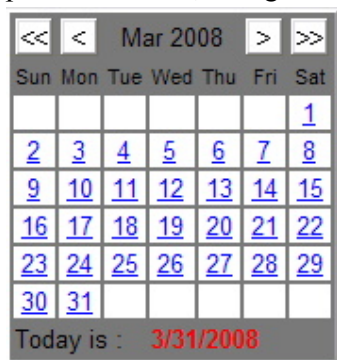
Machine Name Setting

Machine Name: Enter the name of the camera. The entered name will be displayed in the status display area.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Set Date/Time Manually

Date: Click the calendar and pick the date. Press << to go previous year, < to go previous month, > to go next month and >> to go next year.

Time: Click on Hour, Minute, Seconds, am/pm; then use up arrow to increase

value and down arrow to decrease value.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

Set Date/Time Sync.
Check Enable NTP checkbox to enable NTP server.

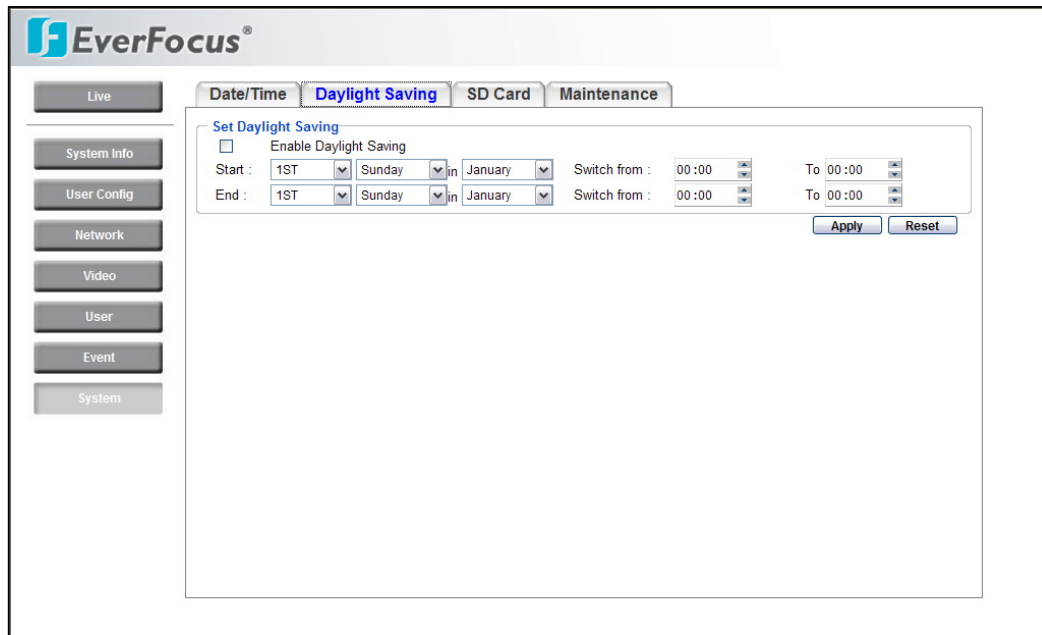NTP server: Time automatically adjusted by synchronizing with NTP server will be used as the standard time of the camera.

Sync. Internal: Select an interval (1 - 24 hours: in 1 hour intervals) of synchronization with the NTP server.

Time Zone: Select a time zone according to the location where the camera is in use.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.7.2 Daylight Saving

Set Daylight Saving

Check **Enable Daylight Saving** checkbox to enable daylight saving.

Set the start time to daylight saving time.
Set the start week of daylight saving time: 1st / 2nd / 3rd / 4th / Last
Set the start date of daylight saving time: Sunday / Monday / Tuesday / Wednesday / Thursday / Friday / Saturday
Set the start month of daylight saving time: January / February / March / April / May / June / July / August / September / October / November / December.
Set the starting time change of daylight saving time: Choose the "From" time and "End" time when daylight saving starts.

Set the end time of daylight saving time.
Set the end week of daylight saving time: 1st / 2nd / 3rd / 4th / Last
Set the end date of daylight saving time: Sunday / Monday / Tuesday / Wednesday / Thursday / Friday / Saturday
Set the end month of daylight saving time: January / February / March / April / May / June / July / August / September / October / November / December.
Set the ending time change of daylight saving time: Choose the "From" time and "End" time when daylight saving ends.
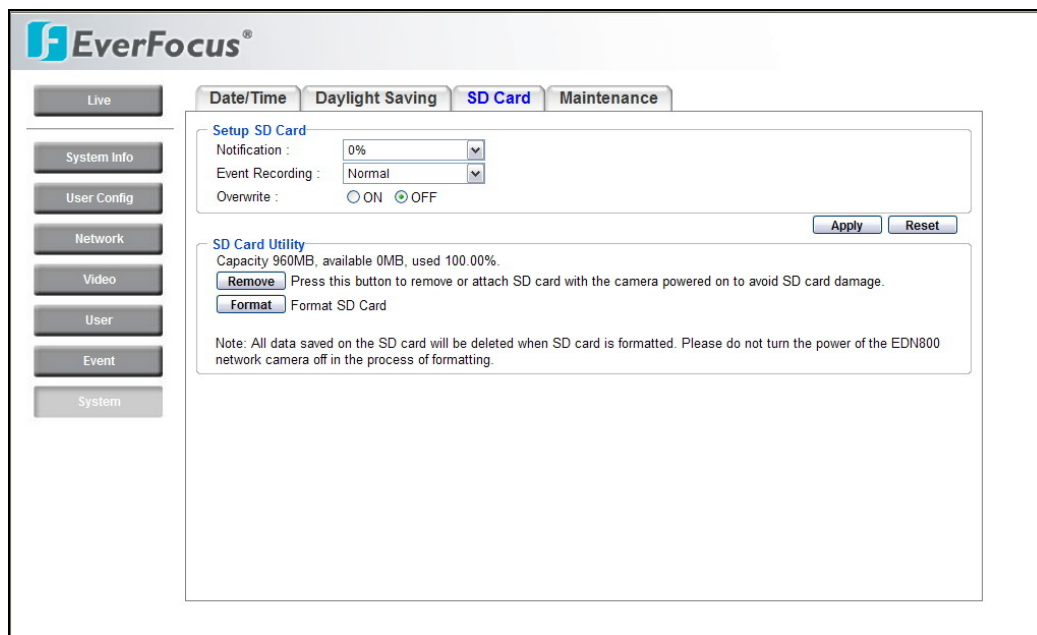
Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

3.7.3 SD Card

Setup SD Card

Notification: Notification will be made via e-mail when the remaining space of the SD memory card reached the value selected from the following.
50%, 20%, 10%, 5%, 2%, 0%

> *Note:*
> *1. When "50%" is selected, e-mail notification will be made each time the remaining space reaches 50%, 20%, 10%, 5%, 2% and 0%.*
> *2. E-mail notification may not always be made at a very moment when the remaining space of the SD memory card reached the selected value.*

Event Recording:
FTP backup only: Event video will record to SD card when network is disconnected.
Normal: Follow the event actions settings you have made in "Event" menu to

record event video to SD card.

Overwrite: Select ON for overwriting data when SD card memory is full. Select OFF for not overwriting SD card data.

Press **Apply** to apply the setting changes or **Reset** to reset without saving the change.

SD Card Utility

The total size and available size of the SD memory card will be displayed. Depending on the state of the SD memory card, the size indications will differ as follows.

Indication Description

Capacity ___ MB, available ___MB, used ___ %

Before formatting the SD memory card, it is necessary to press `Remove` button.

Once `Remove` button is pressed, `Attach` button will be shown for user to insert the SD card back.

Press `Format` button to format SD card.

Obtain images on the SD memory card

1. Access the camera using the Windows command prompt or FTP client software.
→ The window with the user name and password entry fields will be displayed.
2. Enter the user name whose access level is "1. Administrator" and its password.
→ Log in the camera.
3. A directory of all saved data will be displayed. You are now ready to obtain images from SD card.

> *Note***:**
> *1. It is impossible to access the SD memory card in the process of formatting.*
> *2. All data saved on the SD memory card will be deleted when the SD memory card is formatted.*
>
> *3. Do not turn the power of the camera off in the process of formatting.*

3.7.4 Maintenance
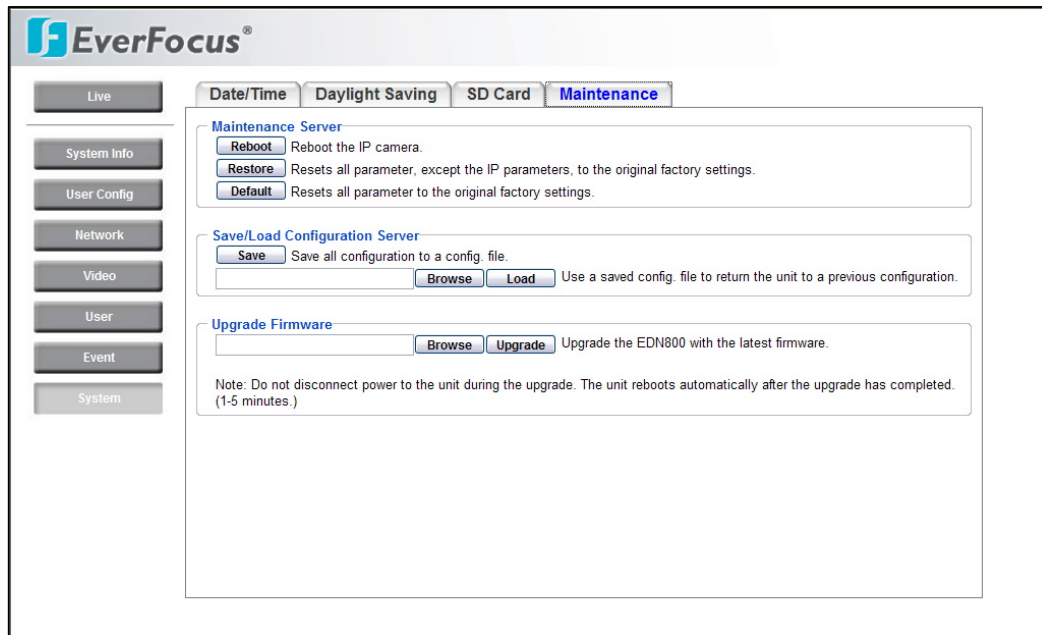
Maintenance Server

Reboot: The unit is rebooted without changing any of the settings. Use this method by pressing **Reboot** button if the unit is not behaving as expected.

Restore: The unit is restarted and most current settings are reset to the factory default values by pressing **Restore** button. The only settings saved are:

- IP setting
- DDNS setting

Default: The **Default** button should be used with caution. Pressing this button will return all of the camera's settings, including the IP address, to the factory default values. The camera will then have to be re-installed.

Save/Load Configuration Server

To take a backup of all of the configurations, press **Save** to save all configurations to a config. file. If necessary, it is then possible to return to the previous settings if the settings are changed and there is unexpected behavior.

Press the **Browse** button to locate the saved config. file (see above) and then click

the **Load** button. The settings will be restored to the previous configuration.

Upgrade Firmware

Upgrade the EDN800 with the latest firmware.

Press **Browse** button to search firmware file. Press **Upgrade** button to upgrade the firmware.

> *Note 1: Do not disconnect power to the unit during the upgrade. The unit reboots automatically after the upgrade has completed. (1-5 minutes.)*
> *2. During upgrading process, all event recording actions will be stopped. It will continue to record after the camera is rebooted.*

4. SPECIFICATIONS

CAMERA	
Pickup Device	1/3" Sony Super HAD Interlaced CCD
Picture Elements	NTSC: 768 (H) x 494 (V); PAL: 752 (H) x 582 (V)
Sensitivity	0.4 Lux / F=1.2
Day & Night	Yes
Lens	Vari-Focal Lens (3.7~12mm)
Video Output	BNC socket, composite 1 V p-p / 75Ω
Video Output Resolution	520 TVL
VIDEO STREAMING	
Video Compression	H.264/MPEG-4/M-JPEG
Video Resolution	D1, VGA, CIF, QVGA, QCIF
Video Quality	8 levels adjustable
Frame Rate	Up to 30fps
NETWORK	
Interface	10Base-T/100Base-TX auto-negotiation, RJ-45 socket Support MDI/MDI-X auto crossover function
Supported Protocols	HTTP, TCP / IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP
Bandwidth Control	Min. 64 kbps adjustable
Max. Client Limit	32 simultaneous clients
ALARM	
Alarm Input	1 x input for dry contacts, Normal Open / Normal Closed adjustable
Alarm Output	1 x dry relay contact, Normal Open / Normal Closed adjustable, 70 VDC / 200 mA max
EVENT MANAGEMENT	
Event Triggered by	Alarm input, Manual trigger, Motion detection and Schedule recording
Notification over	Trigger alarm output, Send mail notification, Upload video to FTP, Record video to SD card, Record video to PC and Network alarm
Pre- and Post- Alarm Buffer	48MB RAM reserved for pre-alarm record up to 120 sec
LOCAL STORAGE	
SD Card	Secure Disk physical layer specification version 2.0 Supports SDHC Host Specification
POWER	
Power Supply	12 VDC & PoE
Power over Ethernet	Yes (PoE 802.3af)
Power Consumption	5W max. (12VDC)
PHYSICAL	
Weight	550 g / 1.213 LBS
Dimensions	127 mm (O.D) x 108 mm (H) / 5" (O.D) x 4.5" (H)
ENVIRONMENTAL	
Operating Temp.	0°C ~ 40°C / 32°F ~ 104°F
Humidity	< 90% not condensing

EverFocus Electronics Corp.

Head Office:
12F, No.79 Sec. 1 Shin-Tai Wu Road,
Hsi-Chih, Taipei, Taiwan
TEL: +886-2-26982334
FAX: +886-2-26982380
www.everfocus.com.tw

USA L.A. Office:
1801 Highland Ave. Unit A
Duarte, CA 91010, U.S.A.
TEL: +1-626-844-8888
FAX: +1-626-844-8838
www.everfocus.com

USA N.Y. Office:
415 Oser Avenue Unit S
Hauppauge, NY 11788
TEL: +1-631-436-5070
FAX: +1-631-436-5027
www.everfocus.com

Europe Office:
Albert-Einstein-Strasse 1
D-46446 Emmerich, Germany

TEL: +49(0)-2822-9394-0

FAX: +49(0)-2822-9394-95
www.everfocus.de

China Office:
Room B-05D-1, KESHI PLAZA, Shangdi
Information Industry Base,
Haidian District, Beijing China
100085
TEL: +86-10-62973336/37/38/39
FAX: +86-10-62971423
www.everfocus.com.cn

Japan Office:
1809 WBG MARIBU East 18F,
2-6 Nakase.Mihama-ku.
Chiba city 261-7118, Japan
TEL: +81-43-212-8188
FAX: +81-43-297-0081
www.everfocus.co.jp

Your EverFocus product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.
Please, dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic product.
Please, help us to conserve the environment we live in!

Ihr EverFocus Produkt wurde entwickelt und hergestellt mit qualitativ hochwertigen Materialien und Komponenten, die recycelt und wieder verwendet werden können.
Dieses Symbol bedeutet, dass elektrische und elektronische Geräte am Ende ihrer Nutzungsdauer vom Hausmüll getrennt entsorgt werden sollen.
Bitte entsorgen Sie dieses Gerät bei Ihrer örtlichen kommunalen Sammelstelle oder im Recycling Centre.
Helfen Sie uns bitte, die Umwelt zu erhalten, in der wir lebenı