EDN850H



User's Manual



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Product Name: EAN 850H EverFocus IP Network Cameras Model Number(s): EDN850H 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.

EDN850H complies with CE and FCC.



EDN850H

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.

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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

 $0^{\circ}C \sim +40^{\circ}C / 32 \sim 104$ 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

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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 Power 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"

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1. INTRODUCTION

The EDN850H is weatherproof IP66 rated outdoor network dome camera which provides *H.264*, *MPEG-4* and *MJPEG* compression for multi-streaming capabilities.

With unique digital processing technology, EDN850H can reduces the gain noise and produce clear, obvious images in low light environments. Equipped with build-in *SD card* slot, it offers local storage in which videos can be transferred to local PC. IP66 rated weather-proof and vandal-resistant design, and Power over Ethernet (PoE), the EDN850H is a durable network dome camera suited with features for the most demanding environments.

2. FEATURES

- Multi stream output at 4CIF resolution @ 30fps
- H.264/MPEG4/MJPEG multi stream output for simultaneous live monitoring and high resolution recording
- True Day/Night function with ICR module
- Built-in DNR (Dynamic Noise Reduction) for noise reduction and a 70% saving of Disk storage
- The starlight Super-high sensitivity of 0.002 Lux/F=1.2 is achieved by setting SENS-UP Slow Shutter 128x max.
- Built-in Vari-Focal lens
- Power over Ethernet (PoE) IEEE 802.3af
- Support MDI/MDI-X auto crossover
- Smart Wizard settings for varied Event and schedule recording
- Built-in SD memory card slot for local storage and support SDHC
- Two-way Audio
- Easy wall or ceiling installation
- Vandal Resistant & Weatherproof IP66 rated

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Press

3. ACCESSING THE CAMERA MENU

Step 1.Start an Internet Explorer browser.

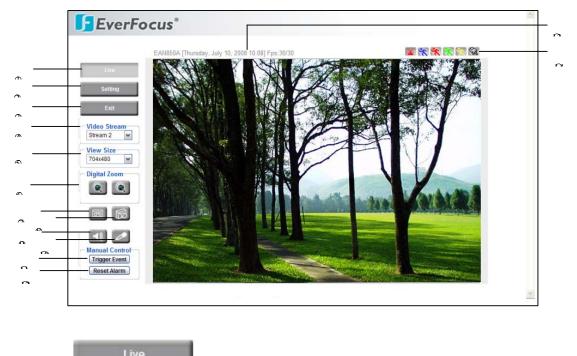
Step 2. Enter the IP address or host name of the camera in the **Location/Address** field of your Internet Explorer browser. (Please refer to EDN850H Installation Guide for how to find the IP address)

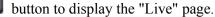
Step 3. Input "Username" and "Password". Default Username is "user1" and default password is "11111111".

Step 4. Click "Login" button.

Step 5. You might be required to download Active X, which is required to view camera video. Please click "Yes".

Step 6. Congratulation!! You should be able to see the live image now.





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

Press
 Setting
 button to enter Setting page. In Setting page, there

are 8 sections: [System Info], [User Config], [Network], [Video], [Audio], [User], [Event] and [System]. Please refer to "4. SETTING" for further information.





Select Video Stream from Stream 1 / Stream 2, Stream 3 and Stream 4. Please refer to "4.4.1 Multi Streaming" for further information.

View Size

704x480	V

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

O Digital Zoom
 O



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

• 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 "4.2 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 "4.7 Event".



Snapshot

R

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 "4.2 User Config" for further information.



Click the "Play Audio" and "Transmit Audio" buttons to switch the sound off and on for the speaker and microphone, respectively.

A 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. (Please refer to "4.7.1 Event")

Manual Control – Reset Alarm

Reset Alarm

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

^D Status Display

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

^{II} Event signals



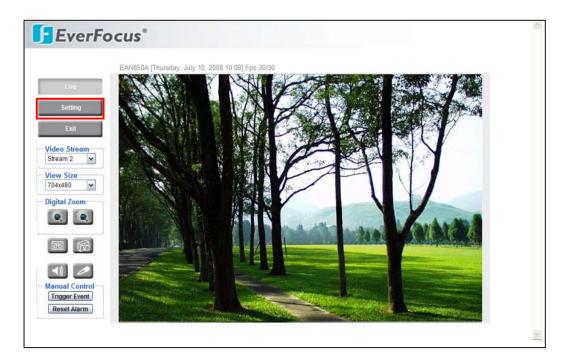
Alarm Motion

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 "4.7.2 Motion" for detailed information about Motion setup.



4. SETTING

Click this button to display the setup menu.





4.1 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: [Information] tab and the [Log] tab.

4.1.1 Information

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

F EverFocus [®]	
Live System Info User Config Network Video Audio User Event System	



4.1.2 Log

_	Information Log	
Live	Information Log	
	- Cystem Log	
Current and a	2008/06/25 14:03:04 : User user1(192.168.12.66) login	^
System Info	2008/06/25 10:42:49 : User user1(192.168.12.66) login	
	2008/06/25 08:14:28 : User user1(192.168.12.61) login	II
User Config	2008/06/25 08:05:28 : User user1(192.168.12.61) login	
	2008/06/25 08:00:57 : User user1(192.168.12.61) login	
Network	2008/06/24 16:26:34 : User user1(192.168.12.66) login	
network	2008/06/24 13:35:33 : User user3(192.168.12.55) login	
	2008/06/24 13:33:59 : User user2(192.168.12.55) login	
Video	2008/06/24 13:32:40 : User user1(192.168.12.55) login	
	2008/06/24 13:21:56 : User user1(192.168.12.55) login	
Audio	2008/06/24 13:21:25 : User user1(192.168.12.55) login	
	2008/06/24 13:00:34 : User user1(192.168.12.66) login	
User	2008/06/24 11:23:57 : User user1(192.168.12.66) login	
User	2008/06/24 11:23:48 : User user1(192.168.12.66) login	
	2008/06/24 11:22:21 : User user1(192.168.12.55) login 2008/06/24 11:21:54 : User user1(192.168.12.55) login	
Event	2008/06/24 11:21:34 : 0ser user1(192.168.12.33) login 2008/06/24 11:19:19 : Boot	
	2008/06/24 11:19:19 : Boot 2008/06/24 11:19:04 : System reboot by ITSELF(LOCAL HOST)	
System	2008/06/24 11:19:04 . System feeded by fishir(DCHL Host) 2008/06/24 11:16:52 : Firmware is upgraded by user1(192.168.12.55)	
System	2008/06/24 11:16:37 : User user1(192.168.12.55) login	
	2008/06/24 11:15:46 : User user1(192.168.12.55) login	
	2008/06/24 08:55:18 : User user1(192.168.12.61) login	
	2008/06/24 08:55:07 : User user1(192.168.12.61) login	
	2008/06/24 08:54:59 : User user1(192.168.12.61) login	

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.



4.2 User Config

User Config	
Text Setting	Pate/Time Frame Rate
Foreground Color	Green: 128
Position :	UpperLeft •
	hot Export Setting Recording to PC
Export Folder :	C.1
File Size :	1 • Min.
Overwrite :	ON OFF ard disk capacity is less than 50 MB (50~2000), system will stop recording or start overwriting.
in the remaining in	
Language Settin	Apply Re
	5

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.

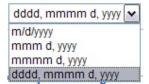
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Position: Select the position where the text will be displaying from Upper Left / Lower Right / Lower Left.

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 in 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

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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.

change.

4.3 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.

4.3.1 Network

Network	DDNS Bandwidth	SMTP/FTP Network	Alarm	
IP Setting IP Type : Gateway : Username :	DHCP -		. 12 . 84 Subnet Mask : . 10 . 188 Secondary DNS	255.255.255.0 192.188.10.189
Port Setting HTTP Port :				Apply Reset

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.

4.3.2 DDNS

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EverFo	Network DDNS Bandwidth SMTP/FTP Network Alarm	
System Info User Config	DDNS Setting Enable Service ISP : www.everfocusddns.com IP Carn Name : .everfocusddns.com	
Network Video	Owww.sitelutions.com Owww.dyndns.com Owww.no-ip.com Record ID : 0 FQDN :	
Audio User	Apply Reset	
Event		

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:

- <u>www.everfocusddns.com</u>
- <u>www.sitelutions.com</u>
- <u>www.dyndns.com</u>
- 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.

4.3.3 Bandwidth

EverFo	ocus®	
Live	Network DDNS Bandwidth SMTP/FTP Network Alarm	^
System Info	Bandwidth Setting Max. Bandwidth: unlimited Max. Client Limit: 8 (1~32), subsequent viewers will see a blank image.	
User Config Network	Apply Reset	
Video		=
User		
Event		
		~

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.



4.3.4 SMTP/FTP

Lven	ocus®
Live	Network DDNS Bandwidth SMTP/FTP Network Alarm
	Set SMTP
stem Info	SMTP Server : SMTP Port : 25
	Authentication
ser Config	User Name : Password :
Network	Receiver Address : (use ; to separate addresses)
NOLITOIN .	Sender Address :
Video	Send Test Email : Test
	Apply Reset
Audio	
User	FTP Server : FTP Port : 21
0001	Recording Path :
Event	User Name : Password :
	Password . Password .
System	Test FTP Server : Test
	Apply Reset

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.



4.3.5 Network Alarm (reserved for PowerCon)

F EverFo	ocus®			
Live	Network DDNS Band	width SMTP/FTP Network Alarm]	^
System Info	Set Network Alarm Protocol : UDP Server 1 : 192.168.1.1	Port No : 1600 Server 2 : 192.188.1.1	Unique ID : 0000000001 Server 3 : 192.188.1.1	
User Config Network			Apply Reset	
Video				
Audio User				11
Event				
System				
				~

Set Network Alarm

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

4.4 Video

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

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



4.4.1 Multi Streaming

/e	Multi Strean	ning Camera					
	Stream Sett	ing					
n Info	Format :	H.264	~				
Config	Resolution :	4CIF (704x576)	🗸 Quality :	High	~	Frame Rate :	25 💌 fps
	Stream 2						
ork		Enable	Format :	H.264	~		
eo	Resolution :	4CIF (704x576)	🖌 Quality :	High	~	Frame Rate :	25 💌 fps
io	Stream 3						
		Enable	Format :	H.264	~		
er	Resolution :	4CIF (704x576)	🖌 Quality :	High	~	Frame Rate :	25 💌 fps
nt	Stream 4						
		Enable	Format :	H.264	~		
em	Resolution :	4CIF (704x576)	Quality :	Highest	~	Frame Rate :	1 🖌 fps
						-	Apply Reset
	Video Reco	n : Stream 1	~				
	Video File F		~				

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

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EDN850H

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

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.

4.4.2 Camera

EverFo	ocus®	
Live System Info User Config Network Video Audio User Event System	Multi Streaming Camera Camera Setting	
	OSD Setting AUTO Set F COLOR	~

Camera Settings

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



OSD setting:

Use the following buttons on the operation panel to operate the "Camera OSD setting" using a PC. (Please refer to 4.4.2.1 for detail guide of Camera OSD Setting)



[SET] button:

Click this button to move to the submenu.

[Left] button/ [Right] button:

Click these buttons to select the parameters.

[Down] button/ [Up] button:

Click these buttons to move the cursor.

ICR Switch Setting:



AUTO: ICR switches automatically according to the illumination.

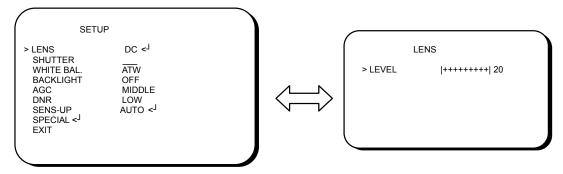
B/W: Select to keep B/W image.

COLOR: Select to keep color image.



4.4.2.1 LENS

 When the SETUP menu is displayed on the screen, please direct the arrow to point to "LENS" by using the UP and DOWN buttons. Press the SET button to adjust IRIS level (the higher is brighter). In most cases, you don't need to adjust this, since Lens is Auto Iris supported.



Note:

Since DC lens is a built-in lens for EDN850H camera, it does not support Manual lens, please do not select lens as Manual mode, it disables sens-up and may cause malfunction of lens.

2. Please press SET button for saving setting and return to the previous menu.

4.4.2.2 SHUTTER

- 1. When the SETUP menu is displayed on the screen, please direct the arrow to point to "SHUTTER" by using the DOWN button.
- 2. Select the shutter mode by pressing the LEFT or RIGHT button. Three modes are available: FLK, ESC and Manual.

Note:

Since DC lens is a built-in lens for EDN850H camera, shutter does not support ESC and Manual functions. ESC and Manual are reserved functions, please do not select these two options in normal situation.

⇒ FLK: Please select "FLK" mode when flickering occurs on the screen, which is caused by an irregular balance between illumination and frequency. NTSC model: 1/100, PAL model: 1/120.





 \Rightarrow ESC: (Reserved).

SETUP			BRIG	HTNESS	
LENS > SHUTTER WHITE BAL. BACKLIGHT AGC DNR SENS-UP SPECIAL < ^J EXIT	MANUAL ESC < ^J ATW OFF MIDDLE LOW AUTO < ^J		BRIGHTNESS	++++++ 25	

 \Rightarrow Manual: (Reserved)

SETUR	D			
LENS > SHUTTER WHITE BAL. BACKLIGHT AGC DNR SENS-UP SPECIAL < ^J EXIT	MANUAL MANUAL < ^J ATW OFF MIDDLE LOW 		SHU > MANUAL	TTER 1/50

2. Press SET button when you finish all the settings.

Note: With DC lens, the shutter speed is fixed as 1/60 for NTSC and 1/50 for PAL.



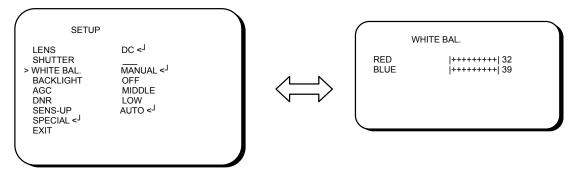
4.4.2.3 WHITE BALANCE Control

The screen color can be adjusted by using the WHITE BALANCE function.

- 1. Please direct the arrow to point to "WHITE BAL" on the SETUP menu by using the UP and DOWN buttons.
- 2. Please select the mode you would like to operate by pressing the LEFT or RIGHT button.

Please select one of the 3 modes below:

- ATW (Auto Tracking White Balance): This mode can be used within the color temperature range from 2,500°K to 8,300°K (eg, fluorescent light, outdoor, sodium vapor lamp or inside tunnels).
- AWC (Auto White Balance Control): Press the SET button while the camera is directed at a piece of white paper to get the optimum state under the present illumination. If the environment and the light source are changed, you need to adjust the white balance again.
- MANUAL: The manual adjustment mode enables a more precise adjustment. Please select ATW or AWC first. Then change to manual adjustment mode and press the SET button. Set the suitable color temperature, and increase or decrease the red and blue color values at the same time while checking the color changes of the object.



Note:

Under the following conditions, the WHITE BALANCE function may not operate well. In such cases, please select the AWC mode.

- 1. When the object's surroundings have a high color temperature.
- 2. When the object's surroundings are dark
- 3. If the camera faces a fluorescent light directly or is installed in a place where the illumination changes constantly, the WHITE BALANCE function may become unstable.



4.4.2.4 BACKLIGHT

Even there is a massive backlight behind the object, bright images of the background and the object can still be obtained by using the BACKLIGHT function.

- 1. Please direct the arrow to point to "BACKLIGHT" on the SETUP menu by using the UP and DOWN buttons.
- 2. Select the mode you would like to operate by pressing the LEFT or RIGHT button.

SETUP	
LENS SHUTTER WHITE BAL. > BACKLIGHT AGC DNR SENS-UP SPECIAL < ^J EXIT	DC < ^J ATW OFF MIDDLE LOW AUTO < ^J

- \Rightarrow HIGH: The gain increases from 0dB up to 42dB.
- \Rightarrow MIDDLE: The gain increases from 0dB up to 30dB.
- \Rightarrow LOW: The gain increases from 0dB up to 18dB.
- ⇒ OFF: BACKLIGHT function does not operate.

4.4.2.5 AGC (Auto Gain Control)

- 1. Please direct the arrow to point to "AGC" on the SETUP menu by using the UP and DOWN buttons.
- Select the mode you would like to operate by pressing the LEFT or RIGHT button. The more the level of gain increases, the brighter the screen and the level of noise increases as well.
 - \Rightarrow HIGH: The gain increases from 6dB up to 42dB.
 - \Rightarrow MIDDLE: The gain increases from 6dB up to 30dB.
 - \Rightarrow LOW: The gain increases from 6dB up to 18dB.
 - \Rightarrow OFF: The gain is fixed at 6dB.

SETUP	
LENS DC < ^J SHUTTER WHITE BAL. ATW BACKLIGHT OFF > AGC MIDDLE DNR LOW SENS-UP AUTO < ^J SPECIAL < ^J EXIT	

30



4.4.2.6 DNR (Dynamic Noise Reduction)

Dynamic Noise Reduction in video images has the following effects.

- 1. Images are brighter and sharper.
- 2. When the level of noise is reduced, the performance of a camera can apparently be improved.
- 3. When it is recorded digitally, reduced noise can reduce image file size.

As the level of gain changes, the background noise in the low light level automatically decreases.

- 1. Please direct the arrow to point to "DNR" on the SETUP menu by using the UP and DOWN buttons.
- 2. Select the mode you would like to operate by pressing the LEFT or RIGHT button.

SETUP		
LENS SHUTTER WHITE BAL. BACKLIGHT AGC > DNR SENS-UP SPECIAL < ^J EXIT	DC < ^J ATW OFF MIDDLE LOW AUTO < ^J	

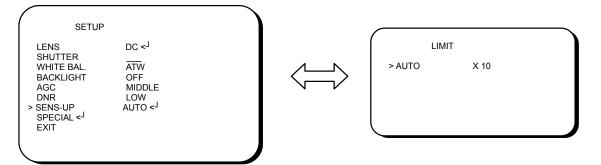
- \Rightarrow OFF: No reduction in noise level.
- ⇒ LOW: Little reduction in noise level with nearly no ghost image. Default value is LOW.
- ➡ MIDDLE: Just enough reduction in noise levels without causing much ghost imaging.
- \Rightarrow HIGH: Huge reduction in noise level, which may cause much ghost imaging.





SENS UP is used to keep a brilliant, vivid screen image by automatically detecting changes in the level of light under low light level conditions. The value is from x2 \sim x128.

- 1. Please direct the arrow to point to "SENS UP" on the SETUP menu by using the UP and DOWN buttons.
- 2. Select the mode you would like to operate by pressing the LEFT or RIGHT button.
 - \Rightarrow AUTO: Low light level auto mode. Default value is AUTO (Up to X 10).



- \Rightarrow OFF: The function is disabled.
- 3. Press SET button when you finish all the settings.

Note:

1. The maximum storage magnification in low light level movement situations can be adjusted by pressing the mini-joystick in "AUTO" mode.

2. The screen becomes brighter when the magnification increases; yet the after image increases as well.

3. Please be noted that spots and noise may appear if storage magnification increases when SENS-UP is operating. This is a normal phenomenon.



1. Please direct the arrow to point to "SPECIAL" on the SETUP menu by using the UP and DOWN buttons.

1	SETUP		
	LENS SHUTTER WHITE BAL. BACKLIGHT AGC DNR SENS-UP > SPECIAL < ^J EXIT	DC < ^J ATW OFF MIDDLE LOW AUTO < ^J	

2. Select the mode you would like to operate by pressing the LEFT or RIGHT button.

(
SPECIAL	
> CAMERA ID COLOR ADJ. < ^J	OFF
SYNC.	INT
MOTIION DET	OFF
PRIVACY	OFF
MIRROR SHARPNESS	OFF ON < ^J
RESET	ON S
RETURN <- ^J	

4.4.2.8.1 CAMERA ID

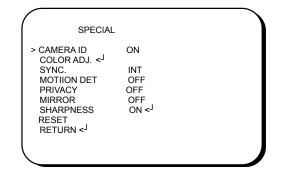
Input the camera ID, and it will be appeared on the monitor.

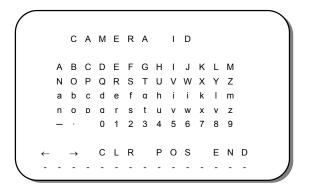
- 1) Please direct the arrow to point to "CAMERA" by using the UP or DOWN button.
- 2) Select "ON" by pressing the LEFT or RIGHT button.
- 3) Press SET button.
- 4) Maximum 15 letters can be used for the ID.
 - > Use UP, DOWN, LEFT and RIGHT buttons to select the letters
 - Press the SET key to lock in the letters.
- 5) Once a name has been selected, please choose a position where you would like to display the name.
 - Move the cursor onto "POS" and press the SET button.
 - > The name will appear at the top left hand corner.
 - Please use the 4 directional buttons to find the desired position to display the name.



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- 6) If you would like to cancel the ID inputted, please move the cursor to "CLR", and all the letters inputted will be deleted.
- 7) Select "END" and press SET button to complete ID input.





4.4.2.8.2 COLOR ADJ

Adjust the Color Gain from $0 \sim 15$

SPECIAL					
CAMERA ID > COLOR ADJ. < ^J	OFF			OR GAIN.	
SYNC. MOTIION DET PRIVACY MIRROR SHARPNESS RESET RETURN < ^J	INT OFF OFF OFF ON < ^J		> LEVEL	++++++ 8	



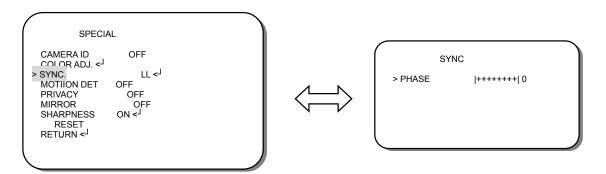
EDN850H

4.4.2.8.3 SYNC

There are two SYNCHRONIZATION modes: INTERNAL and EXTERNAL LINE-LOCK. In LINE-LOCK mode, without a synchronous generator, it synchronizes the video signal between cameras. The Line-Lock synchronization is only used in the places of 60Hz (NTSC models) or 50Hz (PAL models).

-INT: Internal synchronization

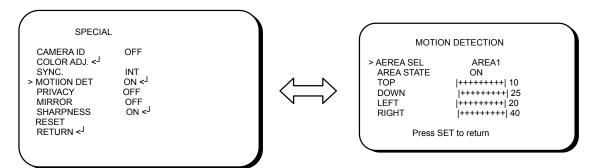
- -LL: External line-lock synchronization
- => If you choose "LL", you can adjust the phase your wish to set. Then press the mini-joystick. You can adjust the phase you wish to set from 0 to 359.



4.4.2.8.4 MOTION DETECTION

EDN850H enables you to observe movements of objects in 4 different places on the screen, the message "MOTION DETECTED" appears on the screen when movement is detected; therefore this helps to improve supervision efficiency. The camera detects an object's movement by sensing discrepancy of outline.

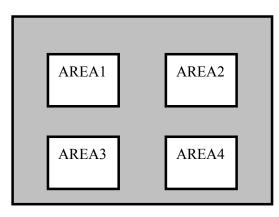
- 1) Please direct the arrow to point to "MOTION DET" by using the UP or DOWN button.
- 2) Select "ON" by pressing the LEFT or RIGHT button.
- 3) Press SET button.



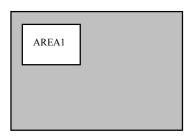
- Please select the area you would like to detect from the 4 areas in AREA SEL mode.
- Please select ON mode for the chosen area.

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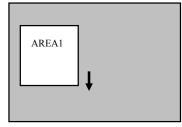
- Please use the UP or DOWN button to move between TOP, DOWN, LEFT and RIGHT for adjusting the size of the area.
- Please use the LEFT or RIGHT button to adjust the value for size of the area.



- Additionally, it is possible to change the position of the area. Please refer to the following example for detailed steps on moving AREA1 to center.
- The original position of AREA1 was TOP: 10, DOWN: 25, LEFT: 20 and RIGHT: 40.

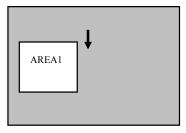


2. Increase DOWN scale value by 20. AREA1 position after change is: TOP: 10, DOWN: 45, LEFT: 20 and RIGHT: 40.

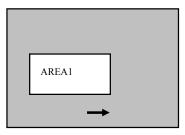




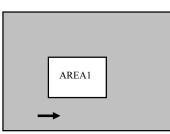
3. Increase TOP scale value by 20. AREA1 position after change is: TOP: 30, DOWN: 45, LEFT: 20 and RIGHT: 40.



4. Increase RIGHT scale value by 20. AREA1 position after change is: TOP: 30, DOWN: 45, LEFT: 20 and RIGHT: 60.



5. Increase LEFT scale value by 20. AREA1 position after change is: TOP: 30, DOWN: 45, LEFT: 40 and RIGHT: 60.



• In order to save the changes and complete the setting, press the SET button. This allows you to return to the previous menu.

4.4.2.8.5 PRIVACY

This mode covers the areas you do not want to see on the screen.

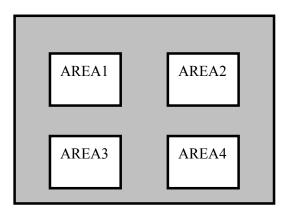
- 1) Please direct the arrow to point to "PRIVACY" by using the UP or DOWN button.
- 2) Select "ON" by pressing the LEFT or RIGHT button.
- 3) Press SET button.



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SPECIAL				
CAMERA ID COLOR ADJ. < ^J SYNC. MOTIION DET > PRIVACY MIRROR SHARPNESS RESET RETURN < ^J	OFF INT OFF ON < ^J OFF ON < ^J		PRIVAC > AEREA SEL AREA STATE. AREA TONE TOP DOWN LEFT RIGHT	AREA1 OFF ++++++ 80 +++++++ 10 +++++++ 25 ++++++++ 20 ++++++++ 40
)		

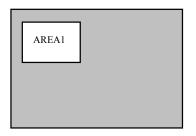
- Please select the area you would like to cover from the 4 areas in AREA SEL mode.
- Please select ON mode for the chosen area.
- Please select AREA TONE for cover area color. The smaller the number, the darker the color.
- Please use the UP or DOWN button to move between TOP, DOWN, LEFT and RIGHT for adjusting the size of the area to be covered.
- Please use the LEFT or RIGHT button to adjust the value for size of the area to be covered.



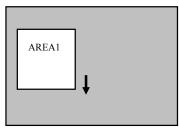
• Additionally, it is possible to change the position of the area to be covered. Please refer to the following example for detailed steps on moving AREA1 to center.



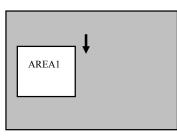
The original position of AREA1 was TOP: 10, DOWN: 25, LEFT: 20 and RIGHT: 40.



2. Increase DOWN scale value by 20. AREA1 position after change is: TOP: 10, DOWN: 45, LEFT: 20 and RIGHT: 40.



3. Increase TOP scale value by 20. AREA1 position after change is: TOP: 30, DOWN: 45, LEFT: 20 and RIGHT: 40.



4. Increase RIGHT scale value by 20. AREA1 position after change is: TOP: 30, DOWN: 45, LEFT: 20 and RIGHT: 60.

AREA1	
→	



5. Increase LEFT scale value by 20. AREA1 position after change is: TOP: 30, DOWN: 45, LEFT: 40 and RIGHT: 60.

		_
	AREA1	
_	→	

• In order to save the changes and complete the setting, press the SET button. This allows you to return to the previous menu.

4.4.2.8.6 MIRROR

-ON: Sets a horizontal image 180 angel inversion.

SPECIAL	
CAMERA ID COLOR ADJ. < ^J SYNC. MOTIION DET PRIVACY > MIRROR SHARPNESS RESET RETURN < ^J	OFF INT OFF OFF OFF ON < ^J

-OFF: Disable the inversion.

4.4.2.8.7 SHARPNESS

The contour of the video image becomes cleaner and more distinguishing as the level of SHARPNESS increases. If the level goes up extremely, it may affect the video image and cause noise.

-ON: Enable the SHARPNESS mode.

-OFF: Disable the SHARPNESS mode.

- Please press the SET button.
- The available range of level is $0 \sim 31$.

SPECIAL					
CAMERA ID COLOR ADJ. < ^J SYNC. MOTIION DET PRIVACY MIRROR > SHARPNESS RESET RETURN < ^J	OFF OFF OFF OFF ON < ^J		> LEVEL	HARPNESS	



4.4.2.8.8 RESET

Press the SET button on RESET for 3 seconds until it restarts. It will go to factory default value.

SPECIAL	
COLOR ADJ. < ^J	OFF
SYNC.	INT
MOTIION DET	OFF
PRIVACY (OFF
MIRROR	ON < ^J

4.4.2.8.9 RETURN

Press the SET button on RETURN. It saves all settings in SPECIAL menu and returns to the Setup menu.

SPECIAL	
CAMERA ID COLOR ADJ. < ^J SYNC. MOTIION DET PRIVACY MIRROR SHARPNESS	OFF OFF OFF ON < ^J
> RESET > RETURN < ^J	UN <-

4.4.2.9 EXIT

Press the SET button on EXIT after you finish all the settings. It will return to live

image.

Note:

If you quit the Menu without pressing EXIT, all the settings you previously did will NOT be saved.



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4.5 Audio

The EDN850H camera can transmit audio to other clients using a built-in microphone or connecting to external microphone to play audio received from other clients via connected speakers. This section describes how to configure the basic audio settings.

EverFocus [®]	
Live System Info User Config Network Video Audio User Event System	
	~

<u>Audio</u>

Check Enable Audio box to enable audio function.

Audio Input: Audio from an internal microphone or a line source can be connected to the Audio connector of EDN850H. The audio source can be selected from Internal Microphone, External Audio Input L and External Audio Input R.

Audio Input volume: Adjust the Audio Input Volume for the audio input devices connected to the camera if there are problems with the sound input being too low or high.

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



4.6 USER

tem Info	er Information Account	Description	Password	Authority	Status
Info	user1	Administrator 1	•••••	SUPERVISOR 🗸	ACTIVE 🗸
nfig	user2	Normal user 2	•••••	USER 🔽	ACTIVE 🔽
	user3	Normal user 3	•••••	GUEST 💌	ACTIVE 🔽
	user4	Normal user 4	•••••	GUEST 🗸	DISABLE 🔽
	user5	Normal user 5	•••••	GUEST 💌	DISABLE 🔽
	user6	Normal user 6	•••••	GUEST 🗸	DISABLE 🔽
	user7	Normal user 7	•••••	GUEST 💌	DISABLE 🔽
	user8	Normal user 8	•••••	GUEST 💌	DISABLE 💌
	user9	Normal user 9	•••••	GUEST 💌	DISABLE 🔽
	user10	Normal user 10		GUEST 🗸	DISABLE 🗸

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, audio, 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.



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



4.7 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.

Event Type		Manual	Motion	Schedule	
Action Type	Alarm Input	Trigger	Detection	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.



4.7.1 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: [Event] tab, the [Motion] tab, the [Alarm] tab and the [Time Mask] tab.

F EverFo	ocus°			
Live	Event Motion Alarm Time Mas	sk		<u>^</u>
System Info	Event List Enable Name Event Type	Actions	Time Zone	
User Config	new event Motion Detection MD1	Trigger Alarm	Always	
Network			Add	
Video			Modii	
Audio				=
User				
Event	Move	Down Move Up		
System			Apply Rese	et
				~

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.

Enable	Name	Event Type	Actions	Time Zone
	new event	Motion Detection MD1	Trigger Alarm	Always
~	motion	Motion Detection MD1	Record to PC	Always



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 :	Actions :	
Alarm Input Manual Trigger Motion Detection Schedule Recording	 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" h Camera "Upload to FTP"		
Time Mask : Alv	Vays Vays 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 "4.7.3 Alarm".

6. Check "Enable This Event".

- 7. Select "Always" for time mask. For detail about Time Mask, please refer to
- "4.7.4 Time Mask".
- 8. Click **OK** to save this event in event list.

4.7.2 Motion

EverFo	cus®
Live	Event Motion Alarm Time Mask
System Info User Config Network Video Audio User Event	Motion Detection Motion Detection Left button click : Draw line Left button double click : Cromet to first point Right button click : Clear all polygon Update Image Select All Clear All Eraser
System	Area Name MD1 MD2 MD3 MD4 MD5 Enable Implie Implie Implie Implie Sensitivity 5 5 5 5 Apply Reset

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.

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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).

4.7.3 Alarm

Live	Event Motion Alarm Time Mask	
System Info	Alarm Output Setting Contact Type : N.O Duration Time : 5 Sec	
User Config		Apply Reset
Network Video	Pre/Post Alarm Setting Pre-alarm Buffer 30 Sec Post-alarm Buffer 30 Sec	
Audio		Apply Reset
User	Re-trigger Filter Setting Re-trigger Filter 5 Sec	
Event		Apply Reset
System		

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.

4.7.4 Time Mask

EverFo	cus®
Live	Event Motion Alarm Time Mask
System Info	Time Mask Setting Weekend Mask Name : Weekend
User Config Network	Image: Sum in the image: Sum interval in the image: Sum interval interv
Video	Apply Reset
Audio	
User	
Event	
System	

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.



4.8 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.

4.8.1 Date/Time

Apply Reset	Machine Name Sett Machine Name :	ting EAN800A-1.0.0.33			
Time Zone : GMT Apply Reset Set Date/Time Manually Date : 1/6/2000 Time : 14:47:37 Apply Reset t Set Date/Time Sync. Enable NTP TTP Server : pol.ntp.org Sync. Interval : 1 Hour					Apply Reset
Set Date/Time Manually Date : 1/6/2000 Image: Set Date/Time Sync. Image: Set Date/Time Sync. Enable NTP NTP Server : pool.ntp.org Sync. Interval : 1 Hour		MT 🗸			
o Date : 1/6/2000 III Time : 14:47:37 III t Set Date/Time Sync. Enable NTP m Enable NTP NTP Server : pool.ntp.org Sync. Interval : 1 Hour					Apply Reset
t Set Date/Time Sync. Enable NTP NTP Server : pool.ntp.org Sync. Interval : 1 Hour			Time :	14:47:37	×
m Enable NTP NTP Server : pool.ntp.org Sync. Interval : 1 Hour					Apply Reset
m NTP Server : pool.ntp.org Sync. Interval : 1 Hour					
Apply Reset			Sync. Interval :	1 Hour	~
					Apply Reset

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 Time Zone

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

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.

<u>Set Date/Time Sync.</u> 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.



4.8.2 Daylight Saving

EverFo	cus®	
Live	Date/Time Daylight Saving SD Card Maintenance	
System Info Network	Set Daylight Saving Enable Daylight Saving Start : 1ST Sunday in January Switch from : 00:00 To 00:00 End : 1ST Sunday in January Switch from : 00:00 To 00:00	
Video Audio User	Apply Reset	
Event		
<]

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.

4.8.3 SD Card

EverFo	
Live System Info User Config	Date/Time Daylight Saving SD Card Setup SD Card Maintenance Notification : 0% Event Recording : Normal Overwrite : C ON
Network Video Audio User Event System	SD Card Utility Reset Capacity 964MB, available 708MB, used 26.56%. Remove Format Press this button to remove or attach SD card with the camera powered on to avoid SD card damage. Format Format SD Card Note: All data saved on the SD card will be deleted when SD card is formatted. Please do not turn the power of the EAN850A network camera off in the process of formatting.

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:

 When "50%" is selected, e-mail notification will be made each time the remaining space reaches 50%, 20%, 10%, 5%, 2% and 0%.
 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:

<u>FTP backup only:</u> Event video will record to SD card when network is disconnected.

EverFocus®

<u>Normal</u>: Follow the event actions settings you have made in "Event" menu to record event video to SD card.

<u>Overwrite</u>: 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.

- \rightarrow 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.
- \rightarrow 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:

It is impossible to access the SD memory card in the process of formatting.
 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.



4.8.4 Maintenance

F EverFocus [®]				
Live Live System Info User Config Network Video Audio User Event System	Superior Superior Save Save			
System	2008/07/03			

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 EDN850H 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.



5. 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	0.002 Lux (SENS-UP 128x); 0.25 Lux/F=1.2
Day & Night	Yes (with IR cut filter)
Lens	Vari-Focal Lens with Auto Iris (2.8~10mm)
Video Output	BNC socket, composite 1 V p-p / 75Ω
Video Output Resolution	560 TVL
VIDEO STREAMING	
Video Compression	H.264/MPEG-4/M-JPEG
Video Resolution	4CIF, VGA, CIF, QVGA, QCIF
Video Quality	8 levels adjustable
Frame Rate	Up to 30fps
AUDIO	
Audio Input	3.5 mm stereo socket, sensitivity 1 Vrms
Audio Output	3.5 mm stereo socket, sensitivity 1 Vrms
Compression Method Operation Mode	IMA ADPCM (Pulse Code Modulation) Two-way audio
NETWORK	
	10Base-T/100Base-TX auto-negotiation, RJ-45 socket
Interface	Support MDI/MDI-X auto crossover function
	HTTP, TCP / IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS,
Supported Protocols	NTP
Bandwidth Control	Min. 64 kbps adjustable
Max. Client Limit	32 simultaneous clients
TERMINAL I/O	
Alarm Input Alarm Output	1 x input for dry contacts, Normal Open / Normal Closed adjustable 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	
	Secure Disk physical layer specification version 2.0
SD Card	Supports SDHC Host Specification
POWER	
Power Supply	12 VDC & PoE
Power over Ethernet	Yes (PoE 802.3af)
Power Consumption	5W max. (12VDC)



EDN850H

PHYSICAL	
Weight	0.74 kg / 1.6 lbs
Dimensions	123mm (O.D.) x 107.8mm (H) ; 4.8" (O.D.) x 4.2" (H)
ENVIRONMENTAL	
Operating Temp.	-10°C ~50°C / 14°F~122°F
Humidity	(20%~80% Humidity)
OTHERS	
Waterproof	IP66
Vandal Resistant	Yes

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EDN850H

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