
INSTALLATION / OPERATION

EAN-1350

1.3 Megapixel Day-/Night Network Camera
with Progressive Scan CCD Technology



Safety warnings

To avoid any damage, please consider the following safety warnings:

- ▲ Never place the recorder near to heaters, furnaces, other heat sources or under direct solar irradiation.
- ▲ Operate the device only in locations providing the tolerable operating temperature range 0°C~40°C.
- ▲ Make sure that the device's ventilation slots are not covered or sheeted.
- ▲ For cleaning, make sure the device is plugged off and only use a damp cloth without acid detergent.
- ▲ Install the device only in dry and dustproof surroundings. Protect the device against any liquid's penetration.
- ▲ Avoid the penetration of any artefacts.
- ▲ Do not open the recorder yourself. In case of malfunction, contact your local installer or dealer. Unauthorized opening of the device will annul the warranty claim!
- ▲ Avoid any affection of the device through vibrations or mechanical shock at the recorder's installation location.



ATTENTION! This is a class A product which may cause radio interference in a domestic environment; in this case, the user may be urged to take adequate measures.



This equipment has been tested and found to comply 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.



This Product is RoHS compliant.

WEEE



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.

Helpen Sie uns bitte, die Umwelt zu erhalten, in der wir leben.!

The information in this manual was current upon publication. The manufacturer reserves the right to revise and improve his products. Therefore, all specifications are subject to change without prior notice. Misprints reserved. Please read this manual carefully before installing and using this unit. Be sure to keep it handy for later reference.

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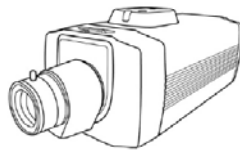
1 INTRODUCTION

1.1 FEATURES

- 1.3 Megapixel Progressive Scan CCD sensor providing high definition video
- Progressive Scan technology for clear reproduction of fast moving objects
- Highest Sensitivity Day/Night Mode with Auto-IR Cut Filter removal technologies and CCD sensor
- With digital pan/tilt and electronic zoom, users can point and see the very details of the region of interest
- Dual codec (MPEG4/MJPEG) simultaneously
- 2-way duplex audio
- C/CS mount DC - lens exchangeable with backfocus adjustment
- Power over Ethernet (PoE) eases installation, security , and maintenance.

1.2 DELIVERY SCOPE

1. EAN-130 camera
(without lens)



2. Application / Manual CD



3. C-Mount adapter



4. Hex key 0,9 mm



5. Quick Installation Guide



1.3 SYSTEM REQUIREMENTS

Network environment LAN 10/100 Ethernet Cable CAT.5E or higher

Monitoring system requirements

Operating system Windows 2000 Professional SP4/
XP SP2 / VISTA
Browser Internet Explorer 6.x or later versions

System hardware

CPU: Pentium 4, 2.4GHz or better
RAM: 512MB (1GB recommended)
VGA resolution: 1024x768 or higher
DirectX Version: DirectX 9.0c

1.4 SPECIFICATIONS

Camera

Sensor Type 1/3 progressive scan CCD
Effective Pixels 1280x960
Electronic Shutter 1:50 ~ 1:10.000
Digital Slow Shutter 2x ~ 32x max / Off
AGC (Auto gain control) 3 level
AWB (Auto white balance) Auto, Manual, Indoor, Outdoor
IR-Cutfilter automatic / manual / ext. contact mode
Lens Mount CS-mount/C-mount DC-drive, backfocus adjustment
Minimum Illumination 1 Lux / F 1,2 color mode
0,2 Lux / F1,2 b/w mode

Analog Video Out

Video Output Composite PAL 1 VSS, BNC (switchable between Video-out and IP streaming)

Network Streaming

Video Compression MPEG4 / JPEG (dual streaming)
Video Frame Rate 12, 5 IPS max (JPEG 1260x980)
25 IPS max (MPEG4 640x480)
Configurable
Compression Rate 5 level
Video Resolution MPEG4: 640x480, 352x288, 320x240, 176 x 144
MJPEG: 1260x960, 640x480, 352x288, 320x240, 176 x 144
Pan/Tilt digital and support for RS-485 PT devices (Pelco-D / P)
Motion Detection 3 zones + 1 exclusive zone
Video Streaming RTSP/RTP/UDP ,RTSP/RTP/TCP,
Protocols RTSP/RTP HTTP Tunnel ,LAN Multicast
OSD Text, Time, and Date configurable (except MJPG 1280x960)

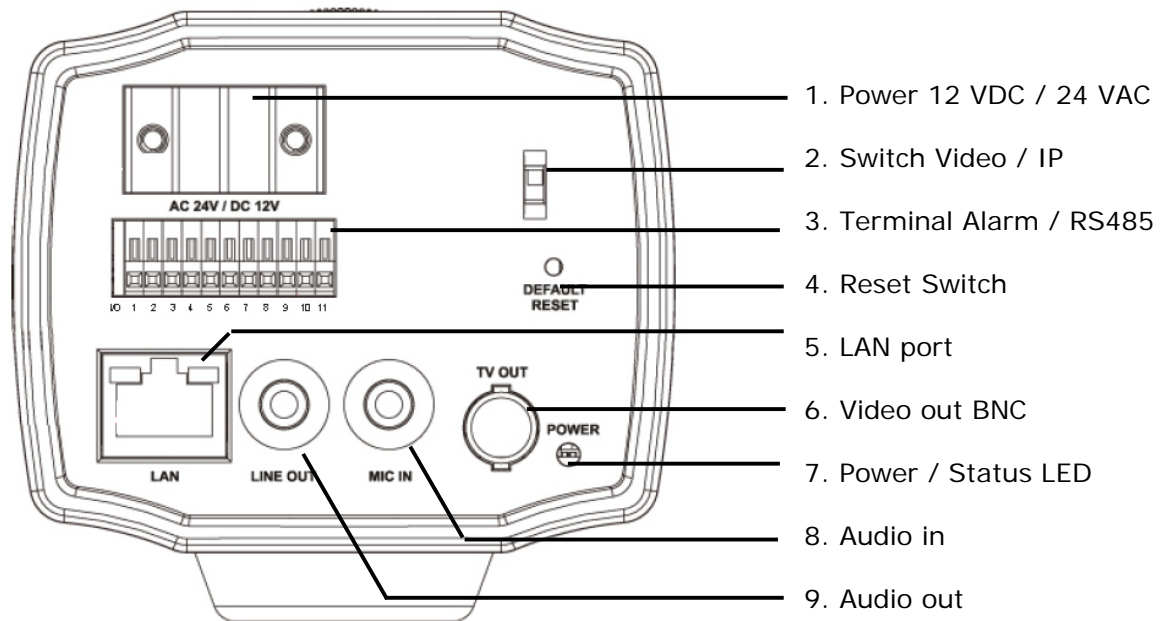
Audio	1 x line in, 1 x line out, 3,5 mm stereo sockets
Audio modes	duplex / full duplex / simplex
Audio Codec	G.711, G.726 selectable
Communication	
LAN Port	RJ-45 10/100M auto-sensed, auto crossover
Communication Protocol	HTTP, RTSP, FTP, SMTP, TCP/IP, UDP, ARP, ICMP, DHCP, PPPoE, DDNS, UPnP, SAMBA
Alarm	2x input, 1 relay output, screwless terminal
RS485	1 x RS-485 telemetry out (Pelco-D/P), screwless terminal
Status LED	3x: Status, network link / traffic
Power	12V DC/ 24V AC, 8W max. or PoE 802.3af
Dimensions	166 mm(L) x 80mm(W) x 81mm(H) (w.o. sockets / lens)
Operating temperature	0°C ~ 55°C
Storage temperature	-20°C ~ 70°C
Humidity	10% ~ 95% non-condensing
Software	
Browser	Integrated browser applet (Internet Explorer 6.0 or above required)
Application Software	PowerCon 4.3 or higher (optional) EverFocus NVR series
OS supported	Microsoft Windows XP, Vista

Software Features / Functions

TCP/IP	Static IP Address / DHCP, PPPoE, DDNS, UPnP, SAMBA Multicast, SMTP (Event notification), IP filtering, Primary /Secondary DNS Server
User management	3 level user rights, anonymous login
Date/ Time	Time / Date overlay internal RTC or sychr. by NTP or PC-time 3 redundant NTP server
Event management	Event trigger Motion, Alarm In, Boot
Event schedule	Weekly schedule with 1 timezone per weekday
Event reaction	Record to FTP / Samba, E-Mail notification, HTTP / TCP - notification, Relay output
Motion	3 zones with adjustable sensitivity and threshold
Pre-Alarm-Buffer	up to 10 s
Display	Overlay time/date/text Image normal, flip h/v, rotate 180° Digital Zoom 100%~800% (client browser) 100~1200% (camera)
Video settings	Brightness, Saturation, Contrast, Sharpness, Backlight,
Others	Remote firmware upgrade, Remote reboot, Configuration up- / download

2 HARDWARE INSTALLATION

2.1 BACKPANEL CONNECTORS



- 1. Power input:** 12 V DC / 24 V AC input, no polarity for 12 V DC
- 2. Switch IP / TV Treset:** Network or Video mode work alternative
For lens and camera adjustment connect a video monitor to the BNC socket, turn the switch to "TV Test", then turn OFF and turn ON power (no network streaming in this mode)
For network streaming switch back to "IP Cam" and OFF and turn ON power (no BNC video out in "IP Cam" mode).
- 3. Terminal Alarm / RS485:** Screwless terminal for alarm inputs / outputs and RS-485 interface.
- 4. Reset switch:** Complete reset of camera to default settings
- 5. LAN-Port:** 10/100 Mbit Lan Interface, RJ45 socket with autosensing function (Patch - or crossover cables supported), PoE powering supported
- 6. Video out:** BNC socket for composite video output signal 1 V pp. If switch (2) is in position "TV test", this output can be used for adjusting lens and camera position.
- 7. Power LED:** Red light indicates power on.

8. **Audio Input:** 3,5 mm audio socket for Audio line input 1 V max / 10 KOhm

9. **Audio Output:** 3,5 mm audio socket for Audio line output 1 V max to 10 KOhm

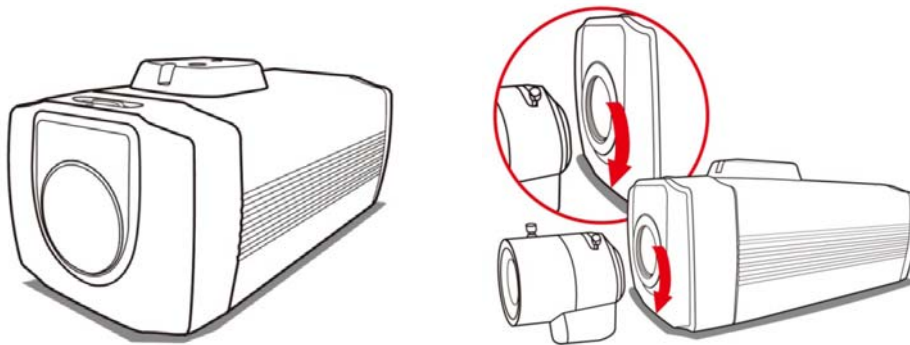
2.2 LENS MOUNTING

For lens mounting, remove the protection cover at the front and screw the lens on the camera body.

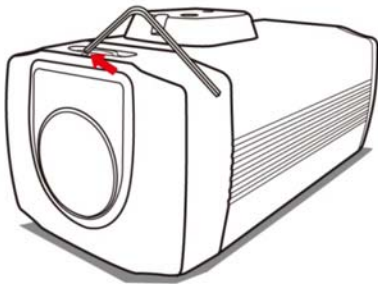
The EAN-1350 camera supports lenses with manual iris and DC-controlled iris. Please make sure, that the used lens supports 1/3" CCD chip format.

It is recommended to use Megapixel lenses to achieve best image quality.

If a C-Mount lens is used, mount the C-Mount adapter between camera and lens.



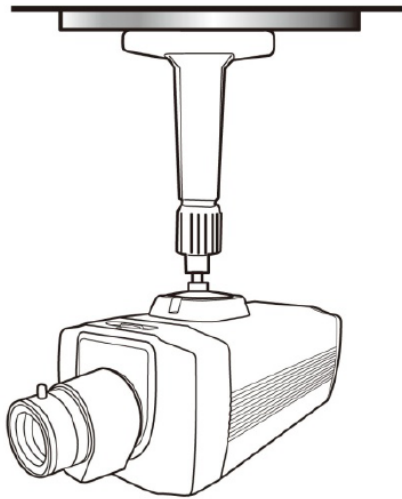
If it is not possible to get a focussed image by lens focus adjustment, correct the backfocus by the lever on top of the camera. Unlock the fixation screw first by the hex key (in camera package).



If a DC-controlled lens is installed, make sure to connect the control cable to the DC iris socket ("IRIS") at the right side of the camera.

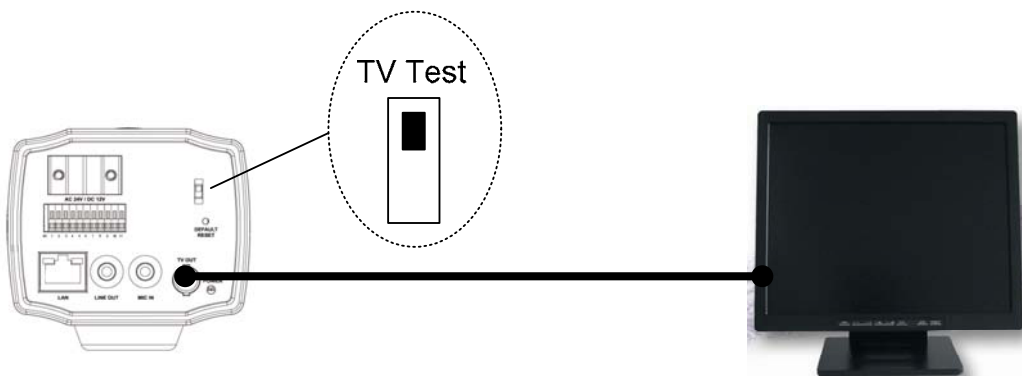
2.3 CAMERA MOUNTING

The camera mounting adapter allows using standard camera brackets with 1/4" thread. The mounting adapter can be mounted at top or bottom side of the camera body.



2.4 VIDEO INSTALLATION FOR CAMERA / LENS ADJUSTMENT

For checking and adjusting lens and camera viewing direction connect a standard video monitor to the BNC socket.

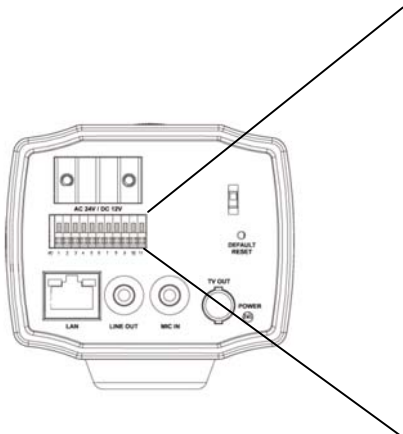


Switch the mode switch to "TV test" and switch OFF / ON camera power.
In this "TV test" mode is no IP streaming possible.
After adjustment switch the mode back to "IP Cam" and switch OFF / ON camera power.

2.5 ALARM IN- / OUT INSTALLATION

Alarm- in- and outputs are connected to the screwless terminal at backside of the camera. For Details to input/output circuit refer to Attachment A.

2.5.1 Terminal pin assignment:



Contact	Description
1	Alarm IN 1 + (max 50 V DC)
2	Alarm IN 1 -
3	Alarm IN 2 + (max 50 V DC)
4	Alarm IN 2 -
5	Relay COM (max. 24 V DC / 1 A)
6	Relay N.C. (max. 24 V DC / 1 A)
7	Relay N.O. (max. 24 V DC / 1 A)
8	RS-485+
9	RS-485-
10	+ 3,3 VDC Output
11	GND

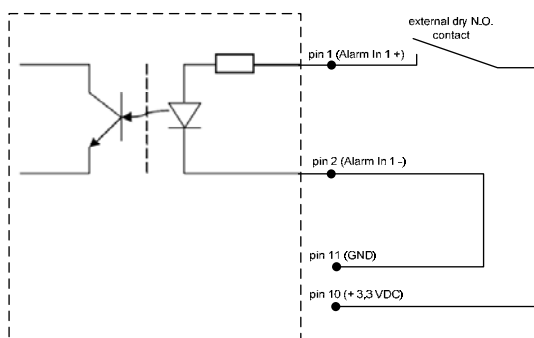
Both alarm inputs are opto-coupler inputs and require DC Voltage 3~50 VDC for activation.

2.5.2 Alarm Inputs

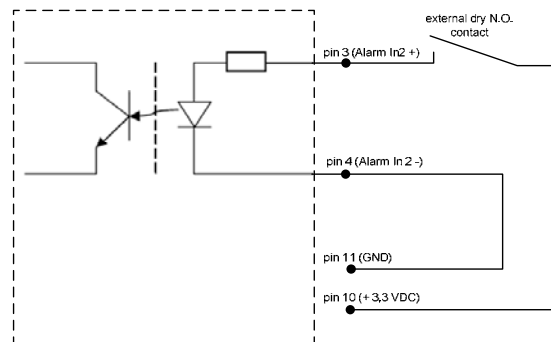
Following connection methods are possible:

A) Installation of dry N.O. contact with camera power source

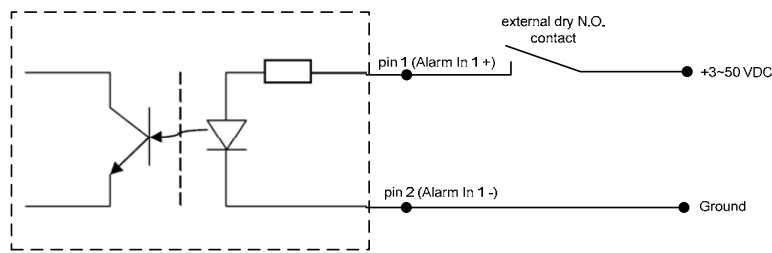
Alarm In 1



Alarm In 2



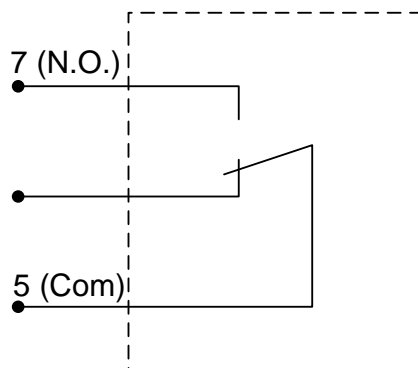
B) Installation with dry N.O. contact using external DC voltage



ATTENTION: Do not exceed the maximum input voltage of 50 V DC. This may cause serious hardware damage.

2.5.3 Alarm Output

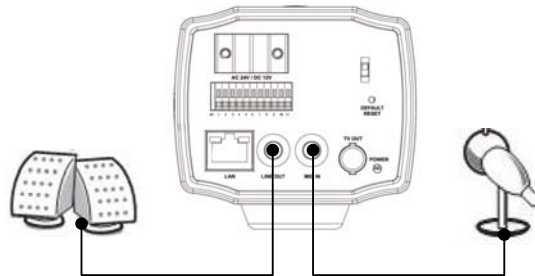
The relay output provides dry contacts, maximum load is 24 V DC, 1 A.



Relay output contacts:

2.6 AUDIO INSTALLATION

Audio input and output are connected to the 3,5mm sockets.

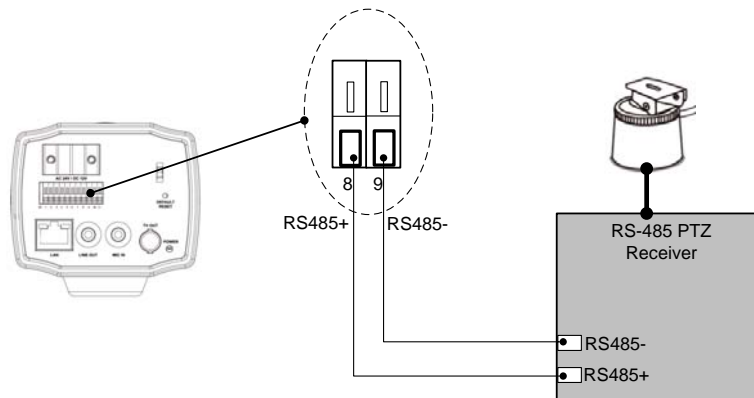


Please make sure to use a pre-amplified microphone with line level 1 V max.
For audio output please use active speakers only.

2.7 RS-485 TELEMETRY INSTALLATION

The EAN-1350 supports Pan-/Tilt/Zoom control of RS-485 PTZ receivers with Pelco-D/P telemetry protocol.

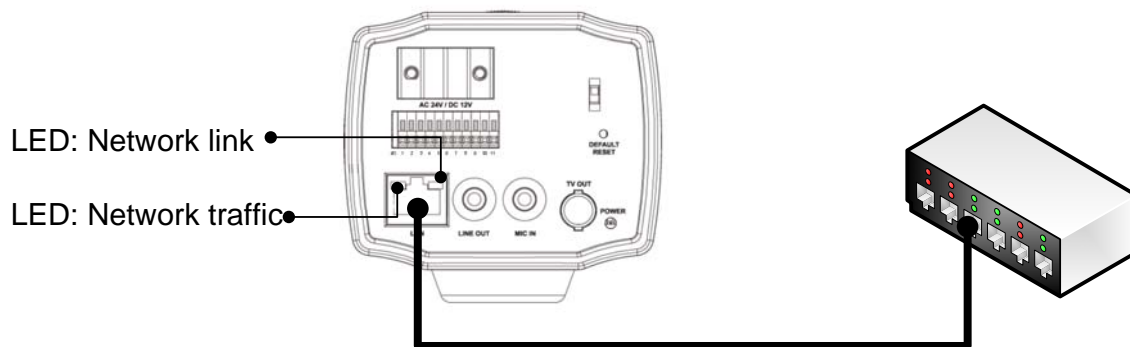
Contacts at terminal: 8: RS-485 +
 9: RS-485 -



ATTENTION: Please make shure, that the receiver supports Pelco-D or Pelco-P mode with simplex wiring (2 wire twisted pair), possible baudrates are 2400, 4800 or 9600.

2.8 NETWORK INSTALLATION / WIRING

Depending on the network environment at installation site, connect camera network connector to the LAN (switch, router, PC...). Use CAT.5 cable or better for installation. The camera network interface is auto-sensing, this means normal straight wired patch cable or crossover cable are supported.

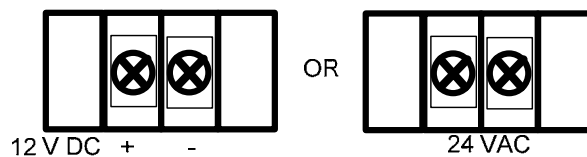


The LEDs at the network socket indicate the status of network connection:

- Network link (right): ON, if network is connected
- Network traffic (left): blinks in interval at any network traffic

2.9 POWER INPUT CONNECTION

The EAN-1350 provides a dual power input for 12 V DC or 24 V AC. The power input is non-polarized:



For 12 V DC connection use stabilized power supplies only.

The camera provides alternative powering by PoE (Power over Ethernet) via network interface.

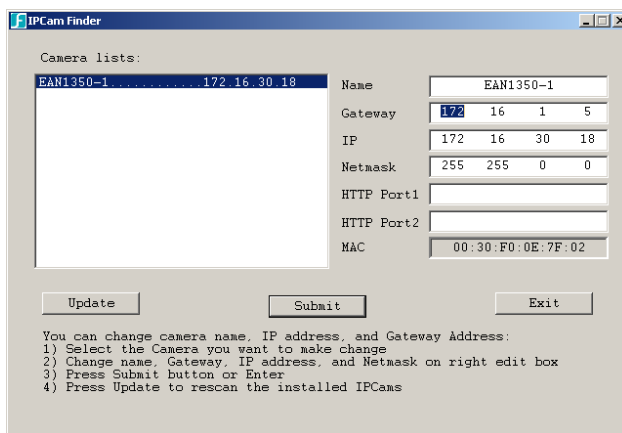
3 IP- SETUP

3.1 NETWORK INSTALLATION / BASIC IP - SETUP WITH IP-FINDER

The IP-Finder application (on application CD in camera package) is a useful tool for initial IP - setup of the camera.

Start the IP-Finder at a PC, which is connected in to the same network as the camera is or use a direct network connection camera<>PC.

Click on "Update" to search cameras in your network, the cameras will be listed in the left side of the screen.



Mark a camera in the list by mouseclick. The current IP - settings, name and the MAC - address of the camera are shown now at the right screen side.

Modify the IP settings fitting to your requirements. The field "Name" is free editable for camera title.

With clicking "Submit" the new settings will be sent to the camera.

Default factory IP settings:

IP-Address: 192.168.0.20

Subnet mask: 255.255.255.0

Gateway: 192.168.0.254

HTTP Port 1: 80

HTTP Port 2: -

3.2 NETWORK INSTALLATION / ROUTER SETTINGS

The router setup methods depend on manufacturer and type. Important is the mapping of IP - address and port of the camera.

The required port for standard operation is port 80.

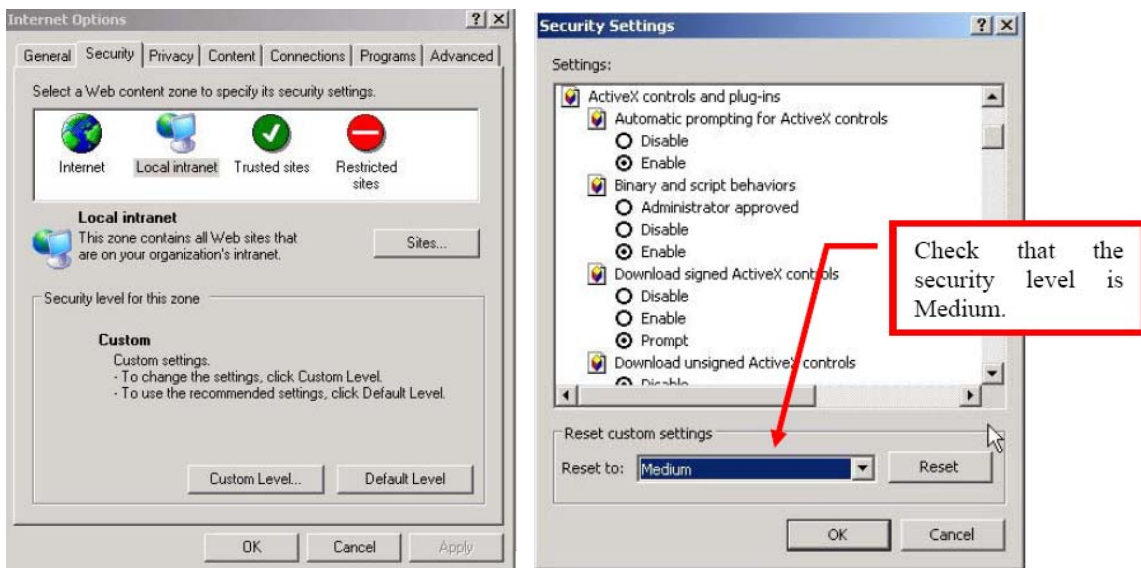
Optional installed services may require additional port mappings.

3.3 NETWORK INSTALLATION / BROWSER SETUP

At initial connecting by web browser an installation of the camera ActiveX control is required. Supported web browsers are Internet Explorer (version 6.0 or higher) or Mozilla Firefox (version 3.0 or higher) with installed IE-Tab Add-On. Make sure that user rights at this PC allow installation of ActiveX components. Set the security level of the browser to "Medium" for ActiveX installation.

Steps:

IE browser > Tools > Internet Options > Security > Custom Level



3.4 ACTIVE X - INSTALLATION AT FIRST TIME LOGIN

Open the IE browser and enter the IP address of the camera.



The login screen appears.

Enter the default username and password:

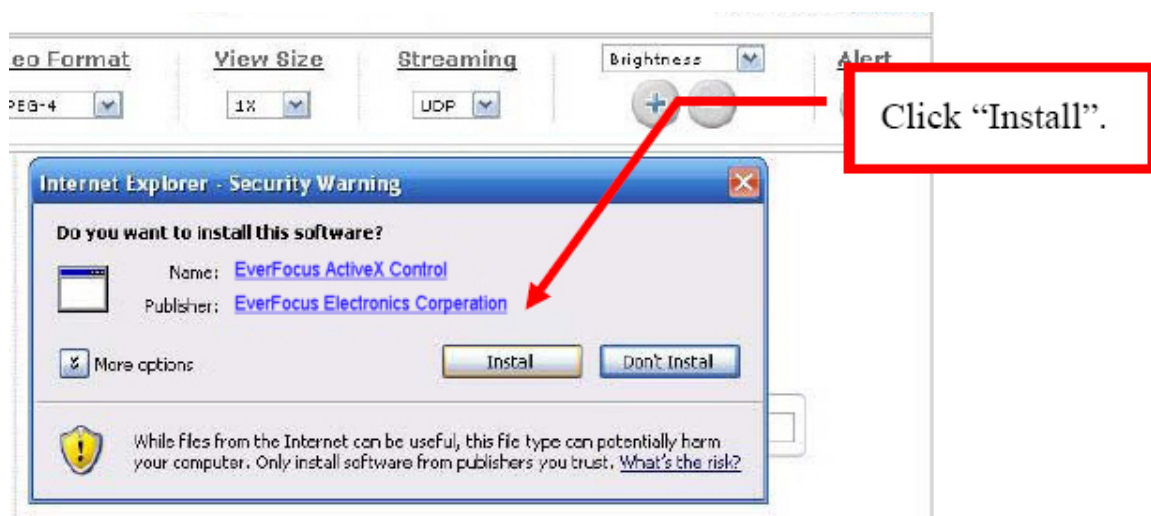
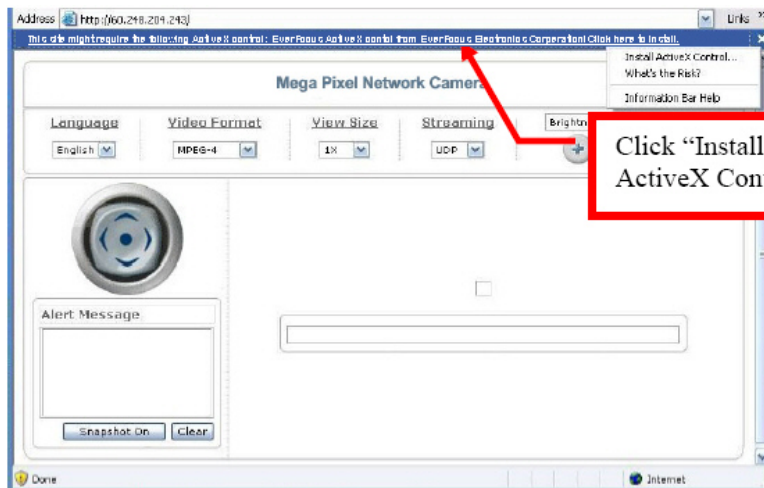
Default User name: user1

Default Password: 11111111



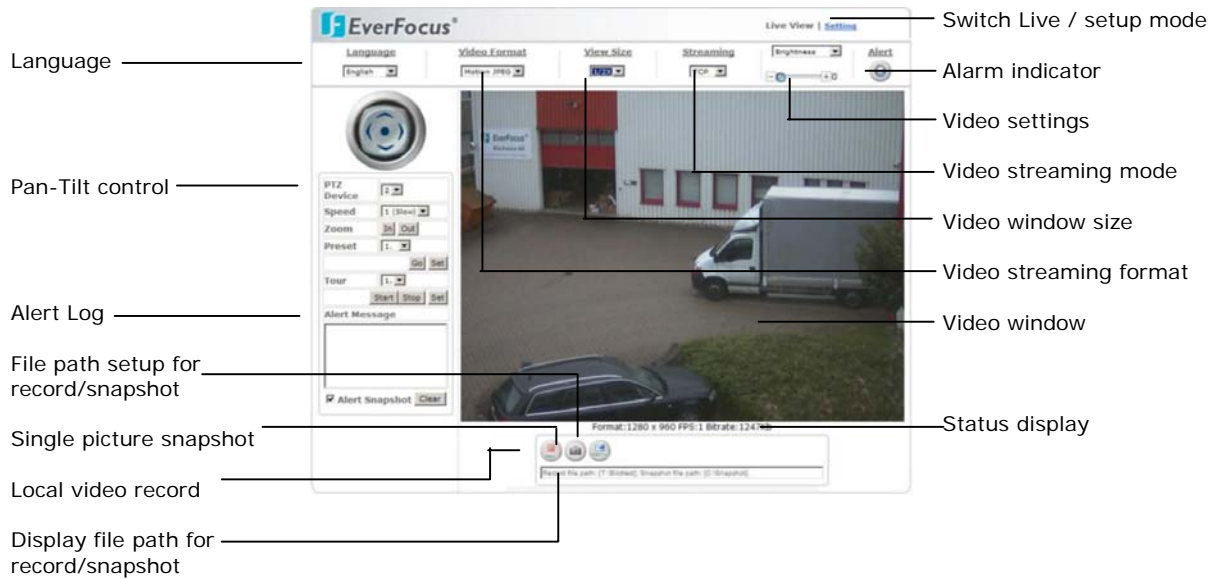
Click on OK.

At first time login the installation of the ActiveX control for the camera is required:



4 MAIN OPERATION SCREEN

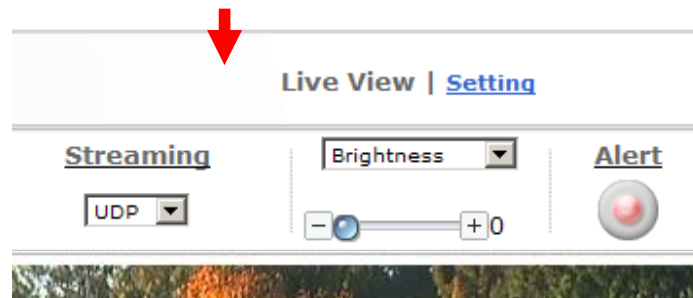
After successful login the main screen appears:



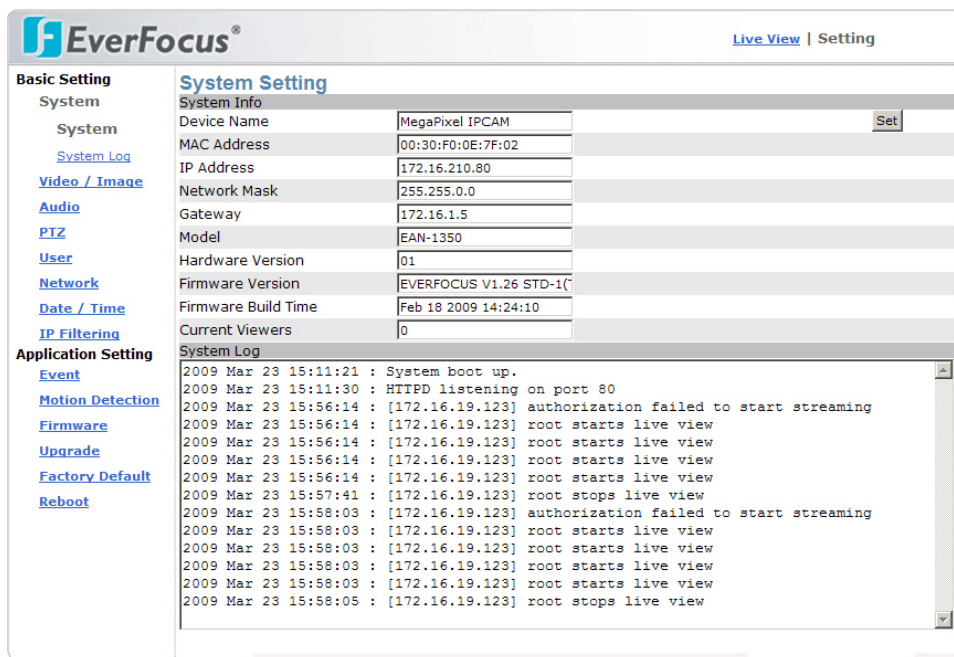
5 SETTINGS - BASIC SETTING

5.1 SETUP SCREEN

To access the detailed camera setup click on "Settings" in upper right corner of the window.



5.2 SYSTEM



System Info	
Device Name	MegaPixel IPCAM
MAC Address	00:30:F0:0E:7F:02
IP Address	172.16.210.80
Network Mask	255.255.0.0
Gateway	172.16.1.5
Model	EAN-1350
Hardware Version	01
Firmware Version	EVERFOCUS V1.26 STD-1
Firmware Build Time	Feb 18 2009 14:24:10
Current Viewers	0

System Log

```
2009 Mar 23 15:11:21 : System boot up.
2009 Mar 23 15:11:30 : HTTPD listening on port 80
2009 Mar 23 15:56:14 : [172.16.19.123] authorization failed to start streaming
2009 Mar 23 15:56:14 : [172.16.19.123] root starts live view
2009 Mar 23 15:56:14 : [172.16.19.123] root starts live view
2009 Mar 23 15:56:14 : [172.16.19.123] root starts live view
2009 Mar 23 15:56:14 : [172.16.19.123] root starts live view
2009 Mar 23 15:56:14 : [172.16.19.123] root starts live view
2009 Mar 23 15:57:41 : [172.16.19.123] root stops live view
2009 Mar 23 15:58:03 : [172.16.19.123] authorization failed to start streaming
2009 Mar 23 15:58:03 : [172.16.19.123] root starts live view
2009 Mar 23 15:58:03 : [172.16.19.123] root starts live view
2009 Mar 23 15:58:03 : [172.16.19.123] root starts live view
2009 Mar 23 15:58:03 : [172.16.19.123] root starts live view
2009 Mar 23 15:58:03 : [172.16.19.123] root starts live view
2009 Mar 23 15:58:05 : [172.16.19.123] root stops live view
```

The System setting page gives an overview about camera version and basic IP settings. The values are not editable at this page except the Device name.

5.2.1 System Log

The administrator can view all login information of this camera, including boot record, video streaming mode, login IP, changes, and the date/time information. You can copy the entries to a Word document and save them manually. Please note that all information is deleted when you turn off the machine.

The screenshot displays the EverFocus web interface for System Log configuration. The left sidebar contains a menu with categories: Basic Setting (System, System Log, Video / Image, Audio, PTZ, User, Network, Date / Time, IP Filtering), and Application Setting (Event, Motion Detection, Firmware, Upgrade, Factory Default, Reboot). The main content area is titled 'System Log' and includes the following settings:

Setting	Value
Max Size	100000
Critical Log	<input checked="" type="checkbox"/> Display
Warning Log	<input checked="" type="checkbox"/> Display
Information Log	<input checked="" type="checkbox"/> Display
Syslogd Service	<input type="checkbox"/> Start
Syslogd Service	<input type="checkbox"/> Start
Server	<input type="text"/>
Port	514

Buttons for 'Save' and 'Reset' are located below the Port field.

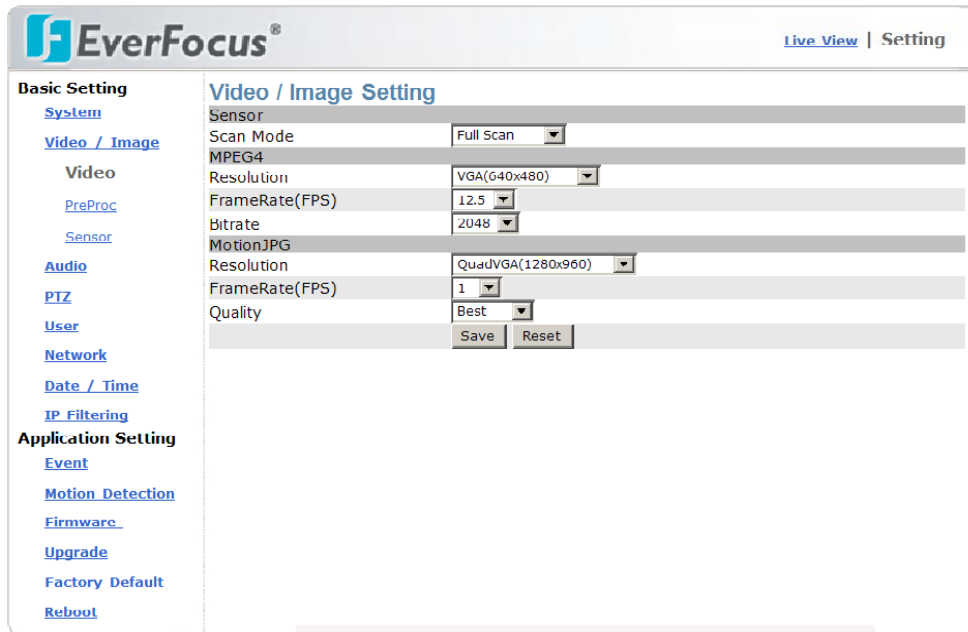
Syslogd Service

The Syslogd service allows to transmit log informations to a server, which provides Syslogd function. Enter the Syslogd server IP - Address and the used port to install this function.

5.3 VIDEO / IMAGE

Setup menu for general video quality and streaming settings.

5.3.1 Video



- Sensor Scan Mode** 2 modes are available:
Full scan: Mode with highest available resolution, reduced framerate
Partial scan: In this mode 4 pixel are combined in scanning. Realtime framerate and enhanced light sensitivity are available in this mode.
- MPEG 4 Resolution** In MPEG4 mode are following resolutions available:
VGA 640x480 pixel
QVGA 320x240 pixel
CIF 352x288 pixel
QCIF 176x144 pixel
- Framerate (FPS)** The framerate setting is depending on the setting for scan mode:
Full scan mode: 12,5 or 8 images/second
Partial scan mode: 25,13 or 9 images / second
- Bitrate** The bitrate setting allows to reduce the network bandwidth for MPEG4 transmission by using higher compression rate. The image quality is reduced with lower bitrate.
Values: 4096, 3072, 2560, 2048, 1536, 1280, 1024, 768, 512 BPS

**Motion JPEG
Resolution**

Full scan mode: QuadVGA 1280x960 pixel or same as MPEG4 setting,
Partial scan mode: always similar to MPEG4 setting

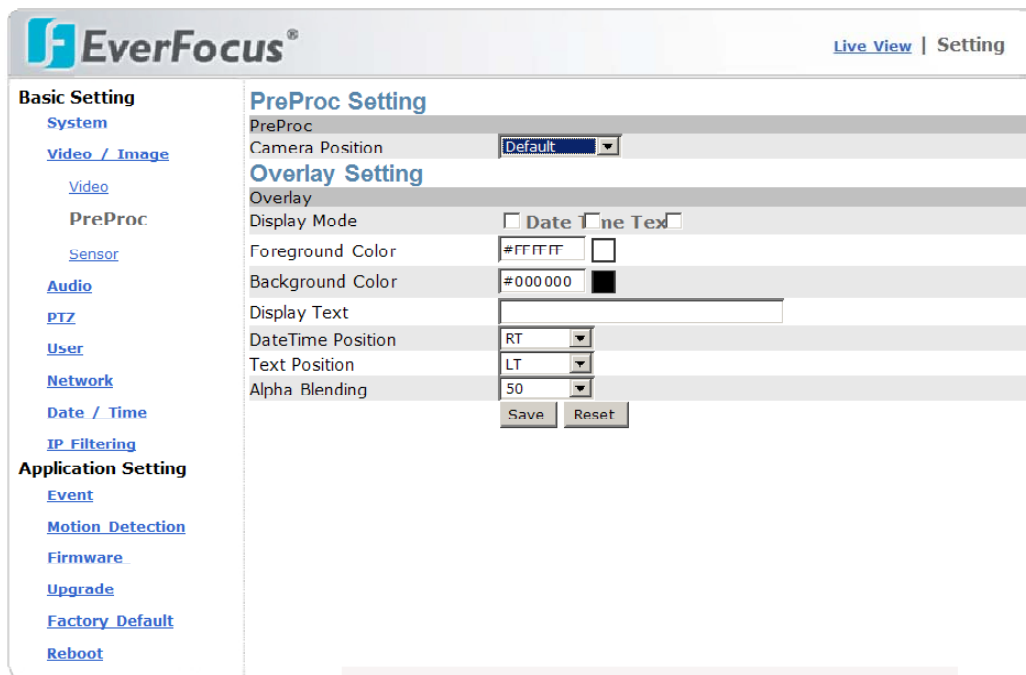
Framerate (FPS)

Full scan mode: 12,5 or 8 images/second
Partial scan mode: 1 ~ 12 IPS images / second

Quality

image quality (compression, adjustable in 5 steps)

5.3.2 PreProc



Preproc

Overlay and special video settings

Camera position

Display settings for special applications:
Default: standard image display
Flip: image is displayed vertically flipped
Mirror: image is displayed horizontally flipped
Rotate180: image is displayed rotated 180°

Overlay setting

Display settings for time, date and text overlay.
ATTENTION: This overlay display is only available in MPEG4 mode

Display mode

Activate the checkboxes for date, time and/or text for display in the video image

Foreground color

Color of characters: clicking in the color box at right opens a

color palette. Select a character color by clicking in a color in the palette.

Background color Color of character's outline: clicking in the color box at right opens a color palette. Select a outline color by clicking in a color in the palette.

Display Text Free editable text / camera title for overlay function

Date Time Position position of Time / Date overlay in the image:
RT: right top
LT: left top
RB: right bottom
LB: left bottom

Text position position of Display text overlay in the image:
RT: right top
LT: left top
RB: right bottom
LB: left bottom

5.3.3 Sensor

Enhanced video settings

The screenshot displays the EverFocus camera web interface. At the top, the logo and 'Live View | Setting' are visible. The left sidebar contains a navigation menu with the following items: Basic Setting (System, Video / Image, Video, PreProc, Sensor, Audio, PTZ, User, Network, Date / Time, IP Filtering), Application Setting (Event, Motion Detection, Firmware, Upgrade, Factory Default, Reboot). The main content area is titled 'Sensor Setting' and includes the following sections and controls:

- Day/Night Setting:** Mode (Auto), Status (Day), Switching Delay (15 Seconds), Sensitivity Level (Mid).
- White Balance Setting:** Mode (Auto), MWB Gain, R Gain, B Gain.
- AE Setting:** Backlight (Enable, 90), Mode (ALC), Shutter (OFF, Second), Slow Shutter (X8), AGC (Lowest).

At the bottom of the settings area are 'Save' and 'Reset' buttons. A live video feed is shown in the bottom right corner, displaying an outdoor scene with a building and a car, with a timestamp '2008.10.20 16:27:50' overlaid.

DayNight Setting Mode	<p>Mode for day (color) and night (b/w without IR-Cutfilter) switching:</p> <p>Auto: automatic switching to day and night mode, "Status" shows the current mode (not editable)</p> <p>Manual: Manual setup of day / night mode</p> <p>External: D/N switching by external contact, setup under "EVENT"</p>
Switching delay	<p>Delay of D/N switching in AUTO - mode. Setup range 1~15 seconds. A longer delay time avoids false D/N switching caused by car light, clouds, reflections or other effects.</p>
Sensitivity level White Balance Setting Mode	<p>Sensitivity threshold value for D/N switching in AUTO mode.</p> <p>White Balance adjustment mode:</p> <p>Auto: automatic mode, optimized for most applications</p> <p>Outdoor: outdoor mode, colder color temperature</p> <p>Indoor: indoor mode, warmer color temperature</p> <p>Manual: manual setup of red (R Gain) and blue (B Gain) in the range 1~100%</p>
MWB Gain	<p>In manual White Balance mode setup of red (R Gain) and blue (B Gain) in the range 1~100%</p>
AE Setting Backlight	<p>Backlight compensation. Activate the checkbox to allow backlight compensation. With active BLC adjust the BLC level from 10 to 100% for optimized image result.</p>
Mode	<p>Mode of aperture control:</p> <p>ALC: mode for use with DC - controlled lenses, combined DC lens control and automatic electronic shutter (AES)</p> <p>ELC: mode for lenses with manual iris, automatic electronic shutter (AES)</p>
Shutter	<p>Electronic shutter: adjustable in ALC mode in the range 1/50 s to 1/10.000 s,</p> <p>In ELC mode shutter mode is automatic only.</p>
Slow Shutter	<p>Image interpolation for enhancement of low lux performance, adjustable in the range 2x to 32x</p> <p>ATTENTION: For clearer reproduction of moving objects adjust this value to the lowest possible value!</p>
AGC	<p>Automatic Gain Control, adjustable in 5 steps.</p> <p>Higher setting creates brighter image in low lux conditions, but increases also noise in the picture.</p>

5.4 AUDIO

The EAN-1350 provides bidirectional audio transmission with different quality options.

Mode	<p>Full duplex: Allows using a microphone and amplifier at the same time, or turning them off at main page.</p> <p>Half duplex: Allows using a microphone or amplifier by manual switch.</p> <p>Simplex microphone only: Allows using the microphone only.</p> <p>Simplex amplifier only: Allows using the speaker only.</p> <p>Audio off: Turns audio off; i.e. both the microphone and speaker are inactive.</p>
Audio In Codec	<p>G726/24: Uses G.726 24Kbps for audio encryption.</p> <p>G726/32: Uses G.726 32Kbps for audio encryption.</p> <p>G711a: Uses G.711 a-law 64Kbps for audio encryption.</p> <p>G711u: Uses G.711 u-law 64Kbps for audio encryption.</p>
Gain	Audio in gain (volume) adjustment 10~100%
Audio out Codec	<p>G726/24: Uses G.726 24Kbps for audio decryption.</p> <p>G726/32: Uses G.726 32Kbps for audio decryption.</p> <p>G711a: Uses G.711 a-law 64Kbps for audio decryption.</p> <p>G711u: Uses G.711 u-law 64Kbps for audio decryption.</p>
Gain	Audio out gain (volume) adjustment 10~100%

5.5 PTZ

This Setup page contains settings for electronic zoom and external RS-485 PTZ devices. The EAN-1350 provides control of 2 PTZ devices, this allows a combined control of electronic zoom and external PTZ - device.

Camera Diver 1

Driver setting for PTZ driver 1:

EZOOM: electronic zoom (only for MPEG4 mode) , address setting is not relevant

Pelco-D: setting for external PTZ receiver with Pelco-D protocol, please set receiver address in the range 0~255

Pelco-P: setting for external PTZ receiver with Pelco-P protocol, please set receiver address in the range 0~255

None: no PTZ control

Camera Diver 2

Driver setting for PTZ driver 2:

EZOOM: electronic zoom (only for MPEG4 mode) , address setting is not relevant

Pelco-D: setting for external PTZ receiver with Pelco-D protocol, please set receiver address in the range 0~255

Pelco-P: setting for external PTZ receiver with Pelco-P protocol, please set receiver address in the range 0~255

PTZ Driver Manager

Camera Driver...

Delete

Delete: removes current PTZ drivers from camera firmware.

PTZ Driver Upload	Upload of new available PTZ drivers: Search: Enter the file path to the new PTZ driver files. Upload: Load the drivers to camera Reset: Reset the PTZ drivers, necessary after Upload
Serial port settings	Interface parameter of the RS-485 port, these parameters should be identical to the PTZ device
Port	Locked at COM 0, no selection needed
Port mode	Locked at RS-485, no selection needed
Baudrate	Baudrate of RS-485, steps: 1200, 2400, 4800, 9600
Stopbits	Number of stopbits, 1 or 2
Databits	Number of databits, 1 or 2
Parity	Parity setting for RS-485, even, odd or none

5.6 USER

This setup page defines users and user rights for access to the EAN-1350 camera. The EAN-1350 provides a flexible user management with 4 different user right levels.

Default user:

Username	Password	User right
user1	11111111	Main Administrator

Add / Modify / Delete User

Press "Add" to define a new user, "Update" to modify the settings for a selected user. "Delete" removes a user from the list ("user1" can not be deleted).

The screenshot shows a web browser window titled "User Setting" with the URL "http://172.16.210.80/". The page content includes a form with the following fields and options:

- User Name:** A text input field containing "user2".
- Password:** An empty text input field.
- Confirm Password:** An empty text input field.
- Privilege:** A group of radio buttons with options: "Main Administrator", "Administrator", "Operator" (selected), and "Viewer".
- PTZ Control:** A group of radio buttons with options: "Enable" (selected) and "Disable".

At the bottom of the form are three buttons: "Save", "Reset", and "Cancel".

User setting:

anonymous login

"Enable" allows access to the camera without login by username /password. This function could be helpful for public cameras, for security applications the default setting "Disable" is recommended.

Maximum number of simultaneous viewers

If "anonymous login" is set to "Enable", enter here the number of maximum anonymous users. The max. limit is 10 users.

anonymous PTZ control

If "anonymous login" is set to "Enable", enter here, if anonymous users are allowed to operate PTZ control.

The EAN 1350 provides 4 level of different user rights. The details are listed in table below:

User		Main Administrator	Administrator	Operator	Viewer
Live View		✓	✓	✓	✓
Record File Path		✓	✓	✓	✓
System Setting		✓	✓	✓	✗
Video Setting		✓	✓	✓	✗
	PreProc	✓	✓	✓	✗
	Sensor	✓	✓	✓	✗
Audio Setting		✓	✓	✓	✗
Date / Time Setting		✓	✓	✗	✗
User Setting		✓	✗	✗	✗
Network Setting		✓	✓	✗	✗
	DDNS setting	✓	✓	✗	✗
	PPPoE setting	✓	✓	✗	✗
	Streaming	✓	✓	✗	✗
	UPnP	✓	✓	✗	✗
	SMTP	✓	✓	✗	✗
	SAMBA	✓	✓	✗	✗
	Notification	✓	✓	✗	✗
	Multicast	✓	✓	✗	✗
	IP Filter setting	✓	✓	✗	✗
Event Setting		✓	✓	✓	✗
	schedule setting	✓	✓	✓	✗
	event server	✓	✓	✓	✗
	trigger setting	✓	✓	✓	✗
Motion Setting		✓	✓	✓	✗
Firmware Upgrade		✓	✗	✗	✗
Factory default		✓	✓	✗	✗
Reboot Setting		✓	✓	✗	✗
PTZ Control		✓	✓	✓	✗

5.7 NETWORK

5.7.1 Network

The screenshot shows the EverFocus web interface for network settings. The sidebar on the left contains a 'Basic Setting' menu with links for System, Video / Image, Audio, PTZ, User, Network, Services, Streaming, PPPoE, DDNS, UPnP, SMTP, SAMBA, Notification, Multicast, Date / Time, IP Filtering, Application Setting, Event, Motion Detection, Firmware, Upgrade, Factory Default, and Reboot. The main content area is titled 'Network Setting' and includes the following fields:

IP Assignment	
DHCP	<input type="radio"/> On <input checked="" type="radio"/> Off
IP Address	<input type="text" value="172.16.210.80"/>
Subnet Mask	<input type="text" value="255.255.0.0"/>
Default Gateway	<input type="text" value="172.16.1.5"/>
DNS 1	<input type="text" value="168.95.1.1"/>
DNS 2	<input type="text"/>
MAC Address	<input type="text" value="00:30:F0:0E:7F:02"/>

At the bottom of the form are 'Save' and 'Reset' buttons.

IP - Assignment

DHCP

OFF: Fixed IP address

ON: IP-address assignment provided by DHCP (requires DHCP support in the network)

IP-Address

In the mode DHCP ON: display of IP - Address,
in mode DHCP OFF: manual entering of the cameras IP address
(alternative to the setting by the "IP-Finder" application)

Subnet mask

Display of Subnet mask setting, in mode "DHCP Off" possibility
to change setting
(alternative to the setting by the "IP-Finder" application)

Gateway

Enter the IP - Address of the Gateway of connected network

DNS1 / DNS2

Enter the IP - address of the DNS1 (Dynamic Name Server) and
DNS2 (if available)

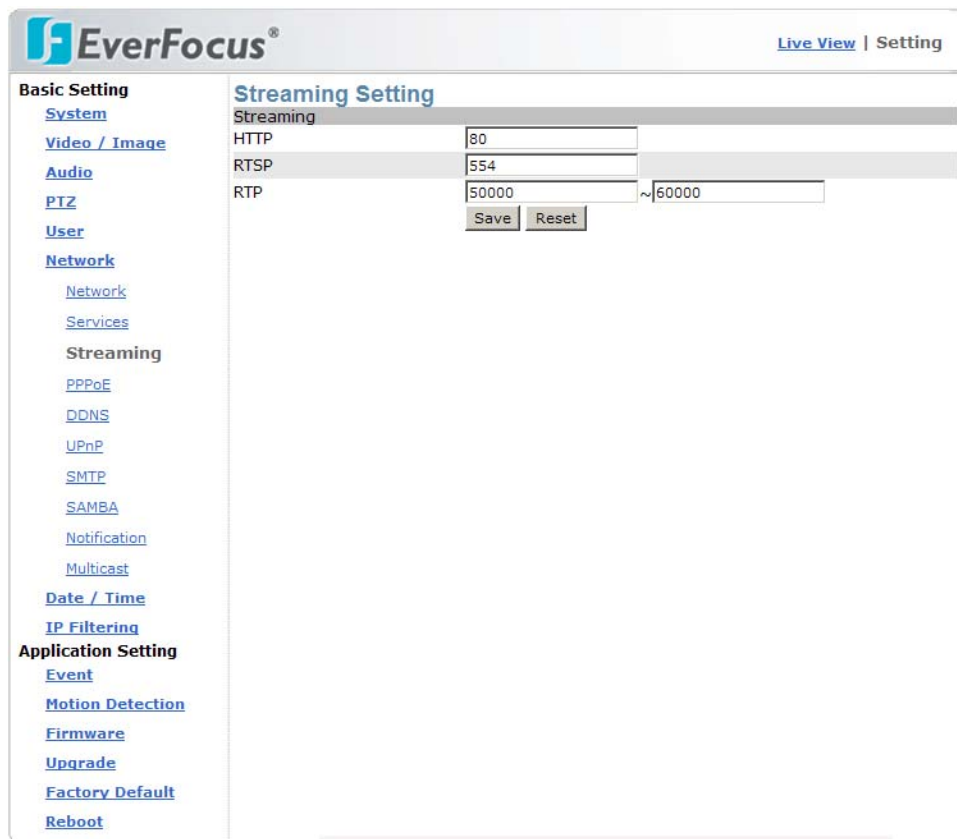
MAC - Address

Display of the camera's MAC - Address (not editable)

5.7.2 Services

The FTP function allows FTP access to the camera. This function is currently not supported by this camera model.

5.7.3 Streaming



Streaming method Setting

HTTP Port 80(80 by default) can pass through most firewalls under Internet environment. Video streams are transmitted through HTTP Port (80 by default) to ensure passage through firewalls.

RTSP Port 554 uses a fixed port (i.e. TCP) or can be defined by users to ensure reliable data transmission. Video streams are transmitted through RTSP Port (554 by default) to avoid video fragment or mosaics due to poor transmission quality.

RTP Port 50000 to 60000 are UDP ports and can be defined by users. They provide the fastest but also most unreliable transmission service. Video streams are transmitted through UDP Port (50000~60000 by default) to ensure the fastest image transmission. Occuring of video fragment or mosaics may occur due to poor transmission quality are possible.

5.7.4 PPPoE

The screenshot shows the EverFocus web interface. The top navigation bar includes the EverFocus logo and a 'Live View | Setting' link. The left sidebar contains a 'Basic Setting' menu with various categories like System, Video/Image, Audio, PTZ, User, Network, DDNS, UPnP, SMTP, SAMBA, Notification, Multicast, Date/Time, IP Filtering, and Application Setting. The main content area is titled 'PPPoE Setting' and contains the following fields:

- PPPoE** section:
 - Dial: Radio buttons for 'On boot' and 'Off' (selected).
 - Username: Text input field.
 - Password: Text input field.
 - Buttons: 'Save', 'Reset', and 'Dial'.
- PPPoE information** section:
 - IP Address: Text input field.
 - Subnet Mask: Text input field.
 - Default Gateway: Text input field.
 - DNS: Text input field.

PPPoE (Point-to-Point Protocol over Ethernet) is a protocol that supports access to a high-speed wideband network using a PC and a wideband modem (such as xDSL, Cable, Wireless modem).

The user need only to equip the PC with an Ethernet card and apply to an ISP and an ADSL provider for ADSL service to roam the Internet through ordinary twisted copper wires.

PPPoE is applicable to networking via a xDSL or cable modem. PPPoE setting must be executed in the LAN environment for your PC to connect to ADSL.

PPPoE

Setting

Dial

On Boot: The camera will establish connection after startup.
Off: PPPoE dialing disabled

Username

Enter the username of your DSL account

Password

Enter the password of your DSL account

5.7.5 DDNS

DDNS (Dynamic Domain Name Service) provides a central (public) database where DNS information can be stored and retrieved. It allows those using a dynamic IP address (i.e. one where it changes each time the computer connects to the internet) to be registered centrally so others can connect to it by name.

Most of the ADSL service providers will provide a dynamic IP for ADSL environments, which means your IP address will constantly change each time you connect to the Internet.

As a result, users from WAN environments will have much difficulty finding the correct IP address. The DDNS (Dynamic DNS service) updates the camera's IP address when accessing the web.

Currently the EAN1350 camera supports DDNS service of Dyndns.org. (Oray.net is only available in chinese language).

The screenshot shows the EverFocus camera web interface. The top header includes the EverFocus logo and a 'Live View | Setting' link. The left sidebar lists various configuration categories: Basic Setting (System, Video / Image, Audio, PTZ, User, Network, Date / Time, IP Filtering), Application Setting (Event, Motion Detection, Firmware, Upgrade, Factory Default, Reboot), and DDNS. The main content area is titled 'DDNS Setting' and contains the following fields:

- DDNS**: A section header.
- Active**: A radio button selection between 'Enable' (selected) and 'Disable'.
- DDNS Server**: A radio button selection between 'dyndns.org' (selected) and 'oray.net'.
- Username**: A text input field.
- Password**: A text input field.
- Domain Name**: A text input field.
- Buttons**: 'Save' and 'Reset' buttons.

DDNS	Setting
Active	Enable: Allow DDNS service Disable: DDNS service off
Username	Enter the username of your DDNS account
Password	Enter the password of your DDNS account
Domain Name	Domain name of the camera (e.g. my-ean1350.dyndns.org)

5.7.6 UPnP

UPnP (Universal Plug and Play) If you connect your camera to a router, IP allocator, or wireless AP, the camera will possibly be blocked by the NAT (network address translation) and can't be located on the Internet.

To penetrate the firewall, activate the supportive item UPnP. The Link URL shows the external IP address and the port of the router.

The screenshot shows the EverFocus web interface. The top header includes the EverFocus logo and a 'Live View | Setting' link. The left sidebar lists various settings categories: Basic Setting (System, Video/Image, Audio, PTZ, User, Network, Services, Streaming, PPPoE, DDNS, UPnP, SMTP, SAMBA, Notification, Multicast), Date/Time, IP Filtering, Application Setting (Event, Motion Detection, Firmware, Upgrade, Factory Default, Reboot). The main content area is titled 'UPnP Setting' and contains the following fields:

- UPnP Device**
 - Active: Yes No
 - Device Name: MegaPixel IPCAM
- UPnP Traversal**
 - Active: Yes No
 - Port Range: 32768 ~ 65535
 - Link URL: Not Ready

At the bottom of the UPnP Traversal section, there are 'Save' and 'Reset' buttons.

UPnP

Setting

Active

Yes: UPnP function on
No: UPnP function off

UPnP Traversal

Active

Yes: UPnP Traversal active
No: UPnP Traversal disabled

Port range

Range of usable ports, default 32768 ~ 65535

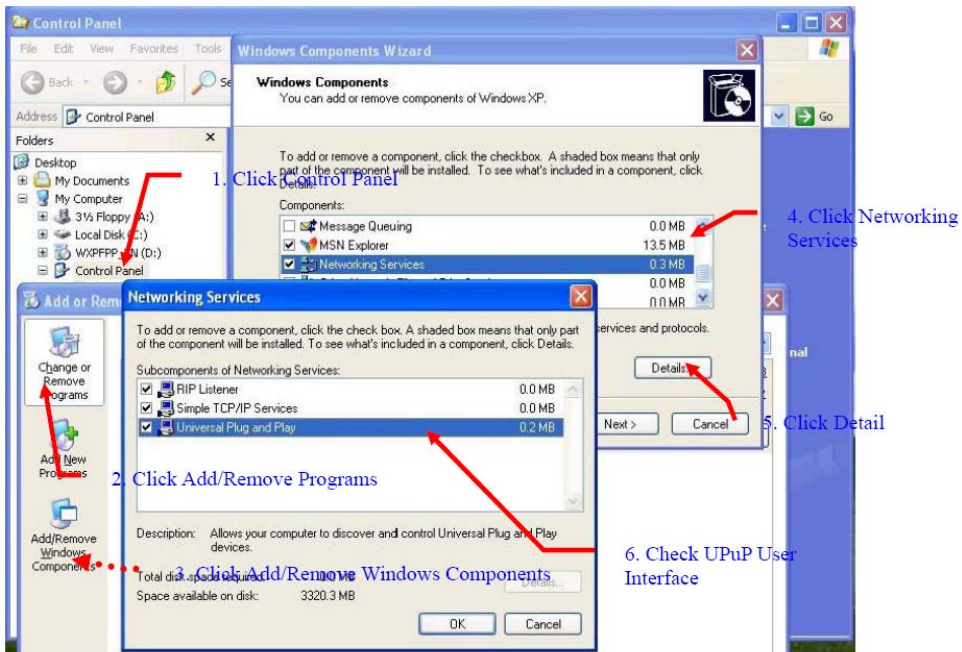
Link URL

Not editable: display of current external IP-Adress of the camera. If display shows: "[http://Trying to traverse...](#)" after pressing "Safe", the UPnP function failed. Please check settings of PC peripheral UPnP devices.

To activate the UPnP function in Windows OS:

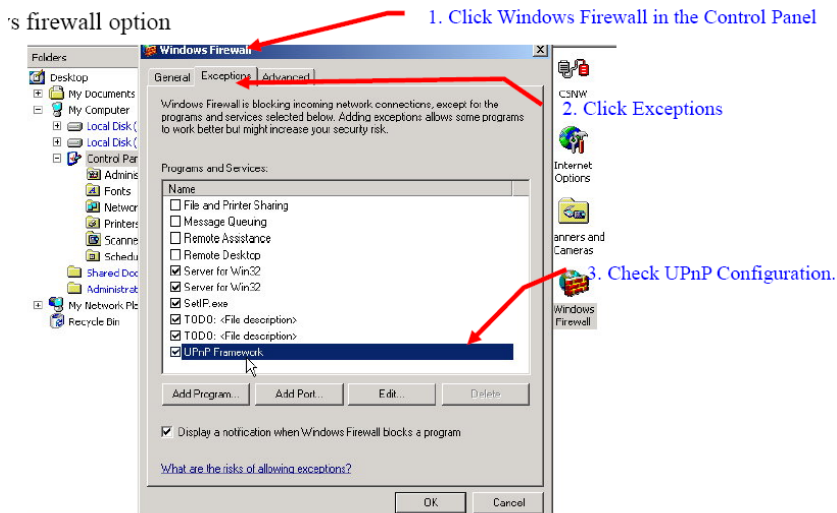
Ex: Windows XP:
Windows component installation.

1. Click Control Panel
2. Click Add/Remove Programs
3. Click Add/Remove Windows Components
4. Click Networking Services
5. Click Detail
6. Check / add UPnP User Interface



Firewall settings

1. Click Windows Firewall in the Control Panel
2. Open Windows firewall option
2. Click Exceptions
3. Check UPnP configuration and edit ports, if needed.



5.7.7 SMTP

The screenshot shows the EverFocus web interface. At the top left is the EverFocus logo, and at the top right are links for 'Live View' and 'Setting'. The left sidebar is titled 'Basic Setting' and contains a list of navigation links: System, Video / Image, Audio, PTZ, User, Network (with sub-links for Network, Services, Streaming, PPPoE, DDNS, UPnP), SMTP, SAMBA, Notification, Multicast, Date / Time, IP Filtering, Application Setting (with sub-links for Event, Motion Detection, Firmware, Upgrade, Factory Default, Reboot). The main content area is titled 'SMTP Setting' and contains the following fields: SMTP Server (text input), SMTP From (text input), SMTP Authentication (radio buttons for Enable and Disable, with Disable selected), SMTP Username (text input), and SMTP Password (text input). At the bottom of the main content area are 'Save' and 'Reset' buttons.

SMTP

Setting

SMTP server

Send Mail server domain name / IP- Address

SMTP from

Sender E-mail address

SMTP authentication

Enable: enable SMTP authentication
Disable: setting for SMTP server, which work without authentication

SMTP username

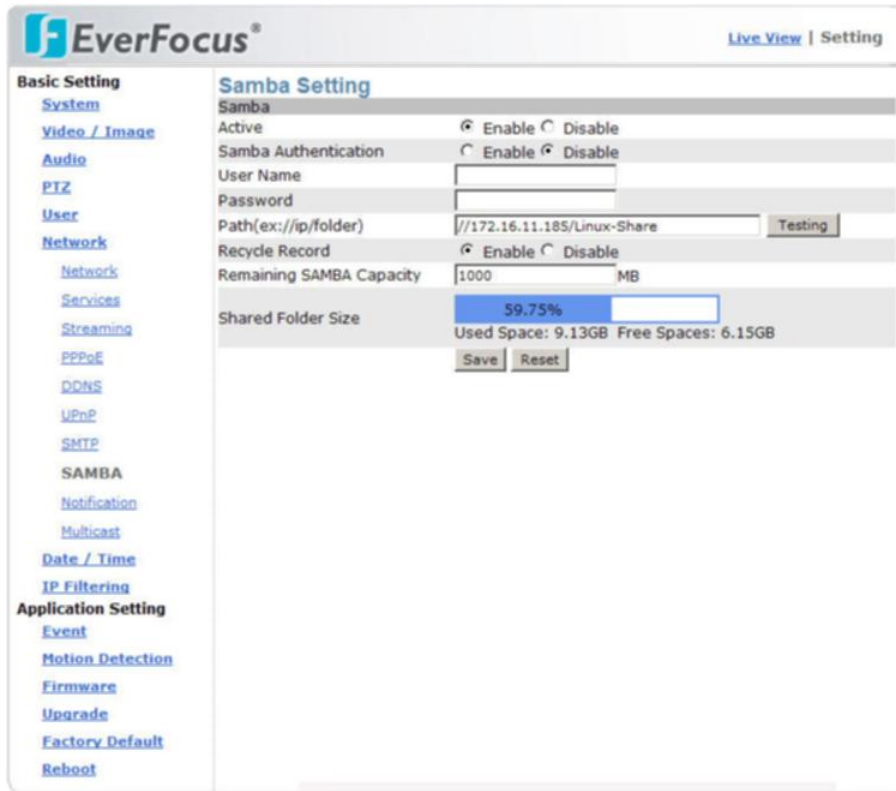
SMTP login username

SMTP password

SMTP login password

5.7.8 SAMBA

The EAN-1350 supports SAMBA server for storage of event snapshots and video recordings.



SAMBA	Setting
Active	Enable: enable SAMBA server Disable: deactivate SAMBA server
SAMBA authentication	Enable: enable SAMBA authentication Disable: setting for SAMBA server, which work without authentication
Username	SAMBA login username
Password	SAMBA login password
Path(ex://ip/folder)	IP adress of the SAMBA server and path of recording folder
Recycle record	Enable: If maximum capacity is reached, oldest recorded files will be deleted automatically. Disable: If maximum capacity is reached, recording to Samba will be stopped
Remaining SAMBA Capacity	Reserved free capacity of SAMBA drive, which is not used for recordings. (Capacity of recording folder = Total capacity of Samba drive - entered value in MB)
Shared Folder Size	Shows used and free space of SAMBA folder.

5.7.9 Notification

Notification service for installations with dynamic IP-Adressing.
 After IP-Adress change the camera can send out notification by email, ftp or HTTP.
 This service is not needed for installations with fixed IP-Address.

The screenshot shows the EverFocus web interface. The top left has the EverFocus logo and 'Live View | Setting' link. The left sidebar lists various settings categories: Basic Setting (System, Video/Image, Audio, PTZ, User, Network, Services, Streaming, PPPoE, DDNS, UPnP, SMTP, SAMBA), Notification (Multicast), Date/Time, IP Filtering, and Application Setting (Event, Motion Detection, Firmware, Upgrade, Factory Default, Reboot). The main content area is titled 'Notification of IP address Change' and contains three sections:

- SMTP Notification:** Includes 'SMTP Notification' (radio buttons for Enable and Disable, with Disable selected), 'SMTP SendTo', and 'SMTP Subject' text input fields.
- FTP Notification:** Includes 'FTP Notification' (radio buttons for Enable and Disable, with Disable selected), 'FTP Server', 'FTP Port' (with value 21), 'FTP Upload Path', 'FTP Login Name', and 'FTP Login Password' text input fields.
- HTTP Notification:** Includes 'HTTP Notification' (radio buttons for Enable and Disable, with Disable selected), 'Server' (with value http://), 'Port' (with value 80), 'Parameter', 'User Name', 'Password', 'Proxy Address', 'Proxy Port' (with value 3128), 'Proxy username', and 'Proxy Password' text input fields.

At the bottom of the form are 'Save' and 'Reset' buttons.

Notification

Setting

SMTP

If activated, enter email - address Email subject

FTP

If activated, enter access data to the FTP server

HTTP

If activated, enter access data to the HTTP server

5.7.10 Multicast

This function allows multiple people to watch video streaming without limitation on the number of users. Multicast is only applicable in the LAN environment.

The function requires support of Multicast function in the connected network.

The video streaming format (MPEG4/MJPEG) depends on the selected image format setting in Video settings.

The screenshot shows the 'Mega Pixel Network Camera' web interface. On the left is a navigation menu with categories like Basic Setting, Application Setting, and Reboot. The main area is titled 'Multicast Setting' and is divided into two sections: 'MPEG4' and 'M-JPEG'. Each section has an 'Enabled' toggle (radio buttons for ON and OFF) and several configuration fields: Video Address, Video Port, Video TTL, Audio Address, Audio Port, Audio TTL, Event Address, Event Port, and Event TTL. Each field has a range of possible values shown in small text. At the bottom of the M-JPEG section are 'Save' and 'Reset' buttons.

Multicast Setting (similar setting procedure for both modes)

- Enable**
 - On:** MPEG-4 Multicast enabled
 - Off:** MPEG-4 Multicast disabled
- Video Address** Multicast Video streaming address, IP - range 224.1.1.1 ~ 239.255.255.255
- Video Port** Multicast Video streaming port, range 2~65534, Even only !
- Video TTL** TTL (Time To Live) value of multicast video stream, 1~255
- Audio Address** Multicast Audio streaming address, IP - range 224.1.1.1 ~ 239.255.255.255
- Audio Port** Multicast Audio streaming port, range 2~65534, Even only !
- Audio TTL** TTL (Time To Live) value of multicast audio stream, 1~255
- Event Address** Multicast Event streaming address, IP - range 224.1.1.1 ~ 239.255.255.255
- Event Port** Multicast Event streaming port, range 2~65534, Even only !
- Event TTL** TTL (Time To Live) value of multicast audio stream, 1~255

5.7.11 Date / Time

The EAN-1350 camera supports date / time setting in manually, synchronized with client PC or automatic adjustment by NTP time server.

Date / Time	Setting
Server Time	Current time and date of the camera, display only.
Time setting	Current time and date of client PC, used for function "Synchronize with PC's time"
Time setting	
Set time	Mode of time setup: Synchronize with PC's time: Client PC date and time are taken over by the camera NTP: Camera time / date is synchronized by NTP (Network Time Protocol) server User Input: Manual input of time and date
NTP Server 1 ~ 3	IP - address of NTP servers, 3 servers can be entered optional, which work redundant
Date	Input field for date only for mode "User Input"
Time	Input field for time only for mode "User Input"
Time zone	Set the time zone depending on the camera's location. This setting is mandatory for working in NTP mode.
Daylight Saving Time	Enable: Switch to Daylight Saving Time (summer period) manually Disable: Switch off Daylight Saving Time Auto: Automatic DST switching, only in "NTP" mode
Start time	Start date of DST (summer period)

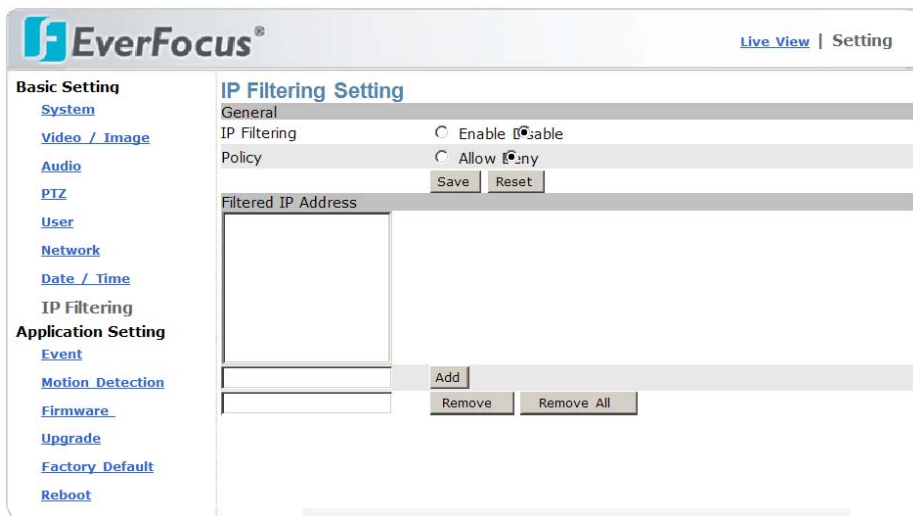
Switch from Time for switching to DST and updated time

End time End date of DST

Switch from Time for switching off DST and updated time

5.7.12 IP Filtering

The EAN-1350 provides IP filtering for network access to the camera based on a blacklist or whitelist.



IP Filtering	Setting
IP - Filtering	Enable: IP - Filtering active Disable: IP - Filtering off
Policy	Allow: "whitelist" mode, all entered IP - Adresses can access the camera, other IP - addresses are blocked Deny: "blacklist" mode, all entered IP - addresses have no access to the camera
Filtered IP - addresses	
Add	For adding an IP - address to the list enter an IP - address below the list and press "Add".
Remove	To remove an address from filter select an IP - address from the list and press "Remove".
Remove all	Removes all IP - addresses from the list.

6 SETTINGS - APPLICATION SETTING

6.1 EVENT

6.1.1 Event

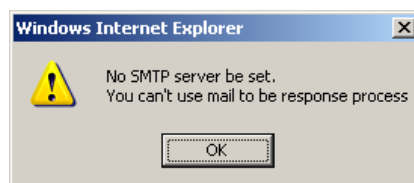
These setup pages provide settings for event related actions such as recording, notification and contact output.



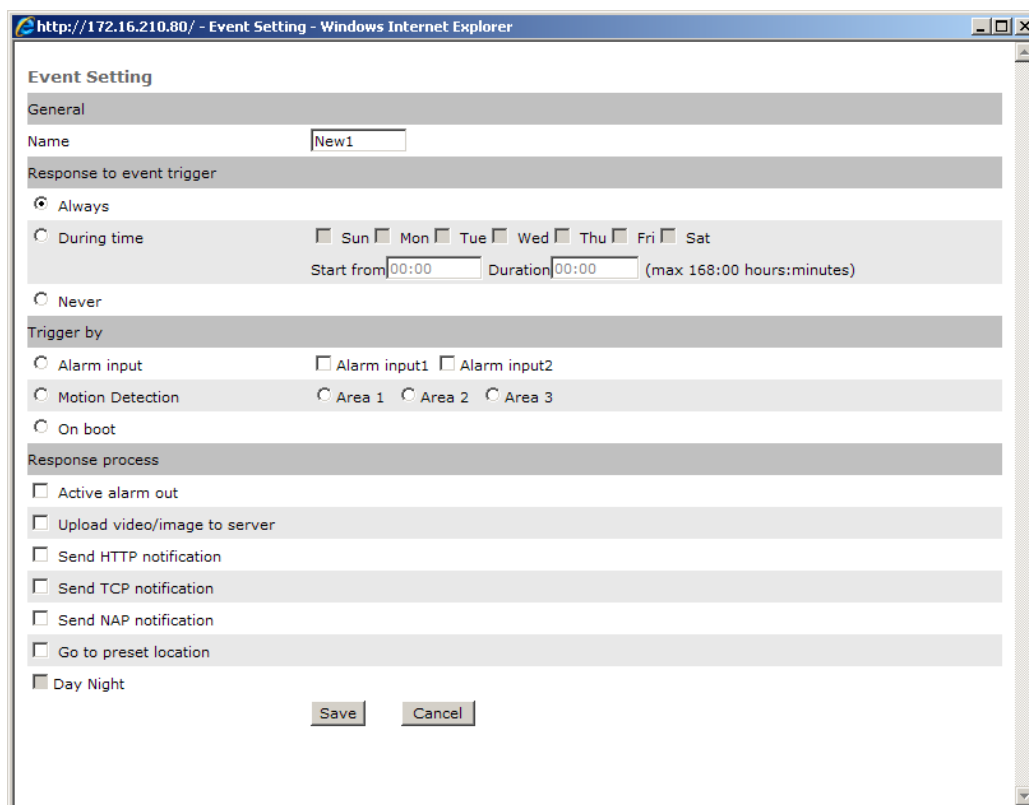
Add / Modify Event

Press "Add" to define a new event. Depending on current settings several status / warning messages for event related settings may appear.

Examples:



Confirm all messages, the event definition menu will open:



Event	Setting
Name	Name of the event (appears in the event list)
Response to event trigger	<p>Always: permanent event handling</p> <p>During time: simple weekly schedule function for event handling, set a start time and a duration of activity (in hours, max 168) Example: Event handling shall be activated from Saturday 08:00 am to Monday 8:00 am. Set Checkbox "Sat"; Start from: 08:00; Duration: 48:00</p> <p>Never: Event handling disabled</p>
Trigger by	<p>Alarm input: select input 1,2 or 3 for contact alarm event</p> <p>Motion detection: Select Area 1, 2 or 3 for motion event</p> <p>On boot: select this checkbox to create an event at camera startup (or reboot)</p>
Response Process	Event actions, multiple selections are possible
Active alarm out	Set this checkbox to switch the contact output of the camera, set duration time
Upload video/image to server	Record event images or videos to FTP or SAMBA server. Note: A definition of FTP or SAMBA server in NETWORK menu is required to activate server upload.
Send HTTP notification	In case of event the camera will send a notification message to a HTTP server. Note: A definition of Notification server in EVENT > EVENT

SERVER menu is required to activate server upload.

Send TCP notification

In case of event the camera will send a notification message to a TCP server.

Note: A definition of Notification server in EVENT > EVENT SERVER menu is required to activate server upload.

Send NAP notification

In case of event the camera will send a notification message and alarm image to a NAP server. Use this function to create network alarm event for PowerCon management software (Version 4.3 or higher). Refer to Powercon 4.3 documentation for more details.

Note: A definition of Notification server in EVENT > EVENT SERVER menu is required to activate server upload.

Note: For correct communication with Powercon the device ID must contain 10 characters without space.

Go to preset location

Only for cameras mounted to PTZ devices with preset functionality.

Select a preset position number.

Day/Night

Switch Day / Night mode.

Using this feature is only possible with the setting:

Setup menu > Video/Image > Sensor > Day/Night setting >

Mode: EXTERNAL

6.1.2 Trigger

This menu provides setting for alarm input contact modes and test functions.

Event

Setting

Alarm Input 1 / 2

Contact mode of alarm inputs, Normal Open or Normal Closed.

Triigger Alarm Out

Manual trigger of relay output (latched function).
"Clear" releases the relay.

Trigger Mail

Test of email transmission.

Trigger FTP

Test FTP: a test video file will be transmitted to FTP.

Trigger HTTP server

Test HTTP server: a test message will be transmitted.

Trigger TCP server

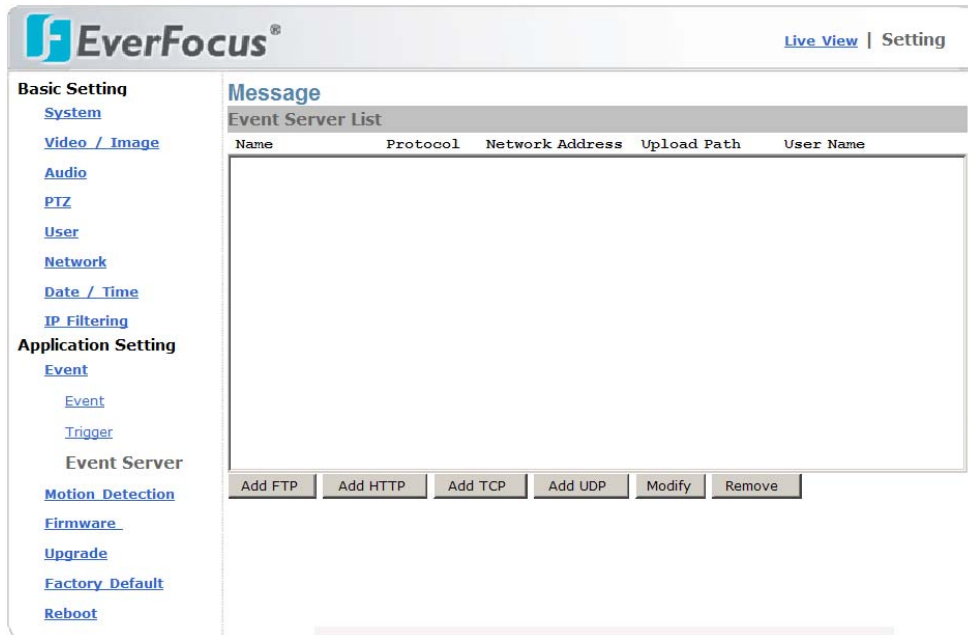
Test TCP server: a test message will be transmitted.

Trigger SAMBA

Test SAMBA server: a test file will be transmitted to SAMBA folder.

6.1.3 Event Server

Setup for the event servers.



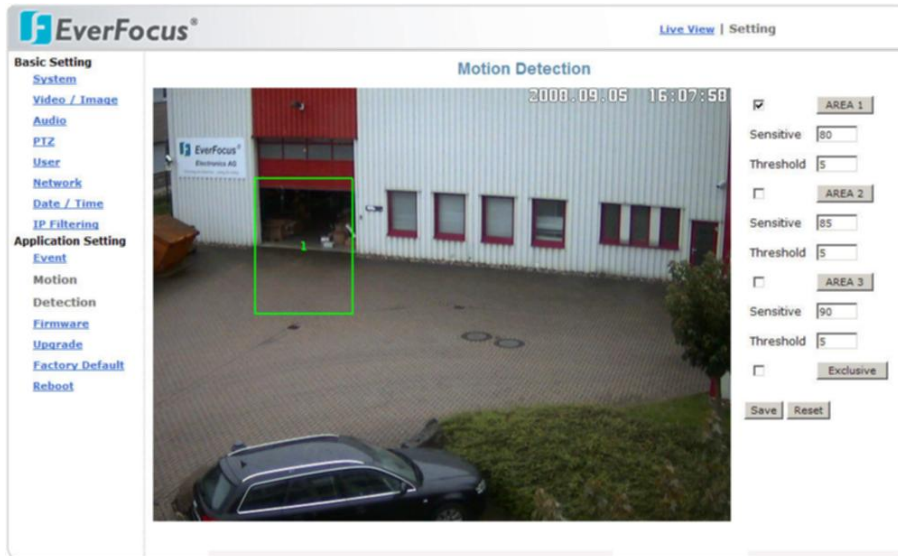
Press "Add FTP", "Add HTTP", "Add TCP" or "Add UDP" to define the access data for event servers.

Press "Modify" to change selected server.

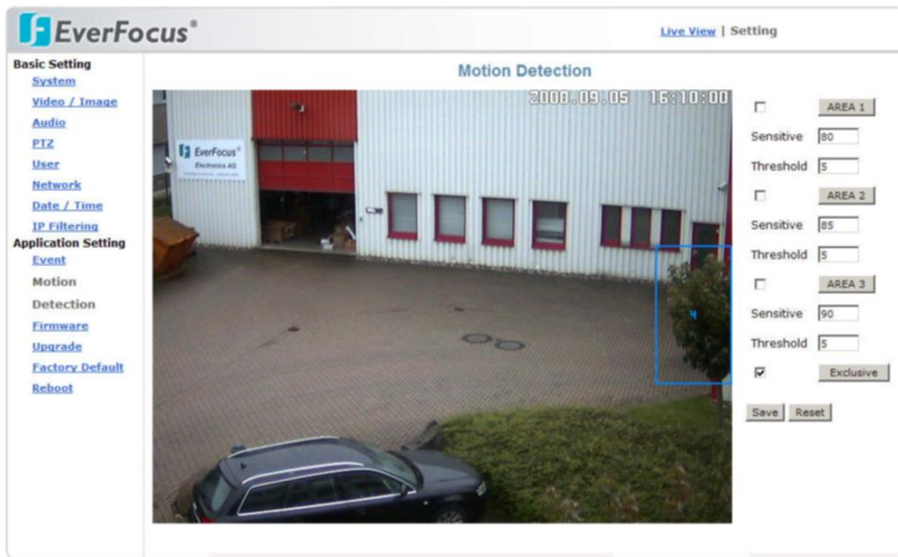
Press "Remove" to delete event server.

6.2 MOTION DETECTION

The EAN-1350 offers motion detection in 3 independent zones. Zone 3 can be defined as "Exclusive" zone, no motion will be detected.



Setup of "EXCLUSIVE" zone:



Motion detection

Setting

Area 1 ~ 3

Set the checkbox to enable the motion detection zone. Click on "AREA1(2,3)" to show the detection area. Click in der middle of the zone to move the area, click at the borders to change area size.

Detect level

Detection sensitivity setup, 5 steps available.

Area3 > EXCLUSIVE

Activate the "EXCLUSIVE" checkbox for zone 3 to set this zone to "No Detection" mode. This function is useful to cover areas in other detection zones, where false alarms are expected (e.g. moving trees)

6.3 FIRMWARE UPGRADE

Firmware upgrade Setting

Model

Shows the camera type

Hardware version

Shows hardware version of the camera

Firmware version

Shows current firmware version

Firmware build time

Creation date of current firmware

Firmware upgrade Search

Enter the file path to the upgrade firmware file

Submit

Send the selected firmware file to the camera. This procedure may take several minutes. follow the screen instructions.

WARNING: Do not power off the camera during upgrade procedure. This may damage the camera irreversible!

WARNING: Do not use low bandwidth or unsafe network connections to upgrade the camera. An interrupted connection during update may damage the camera irreversible!

The camera will reboot after successful update. Verify the new firmware version after re-login in this menu or SYSTEM menu.

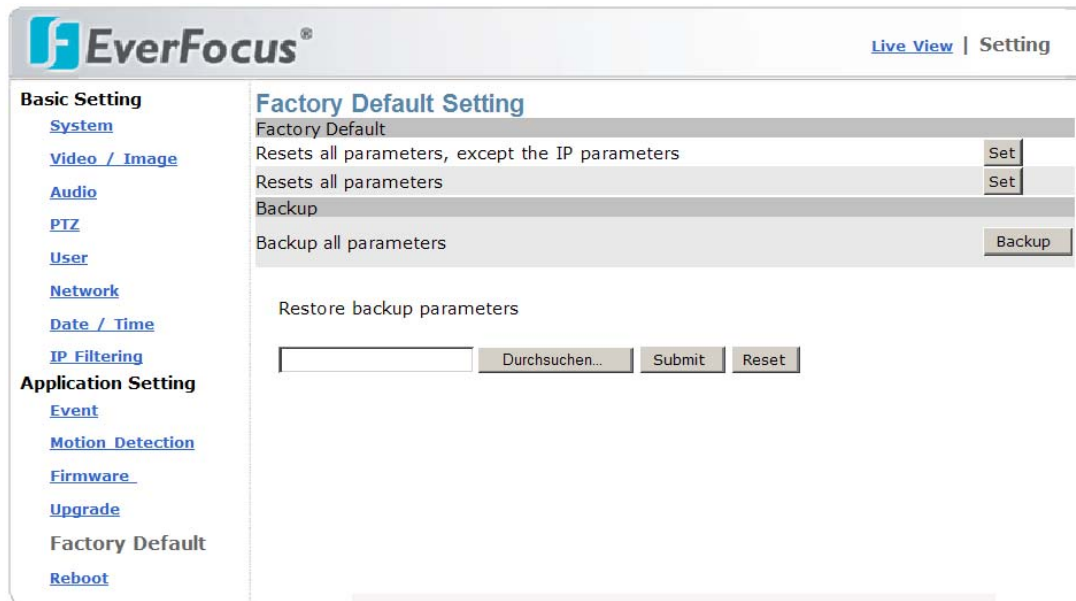
Load Default settings after firmware upgrade.

Reset

Deletes the selected firmware file path.

6.4 FACTORY DEFAULT

This menu allows to load factory default values and backup / restore camera settings.



Factory Default

Resets all settings, except IP - parameters

Resets all parameters

Backup all parameters

Restore all parameters

Search

Submit

Reset

Setting

All values will be set to factory defaults except the basic settings for IP parameters.

All parameters incl. IP settings are set to factory default values.

Saves the current camera settings in a configuration file. Confirm to save the file.

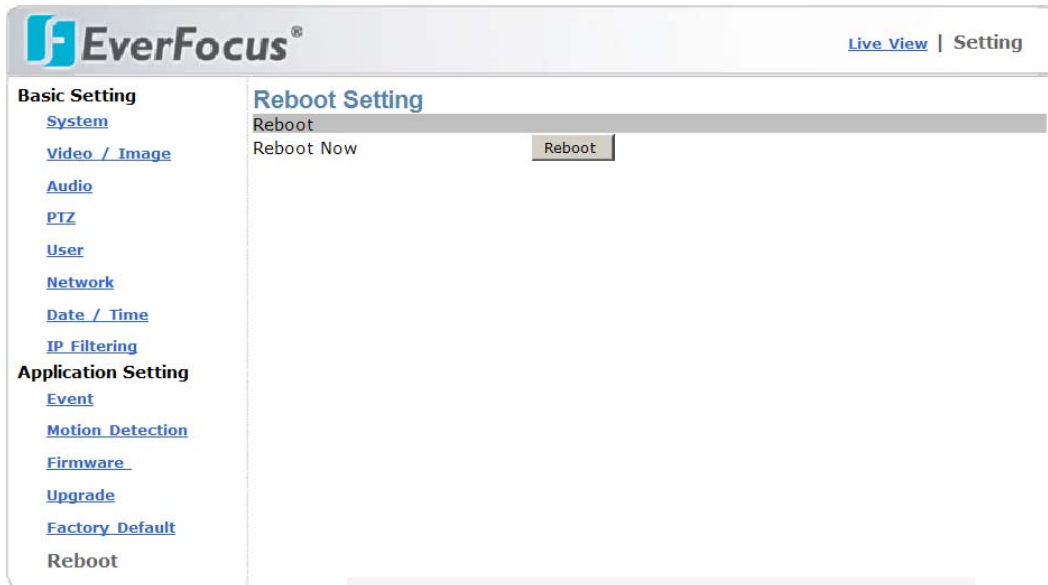
Loade a camera configuration.

Enter the file path to the EAN1350 configuration file.

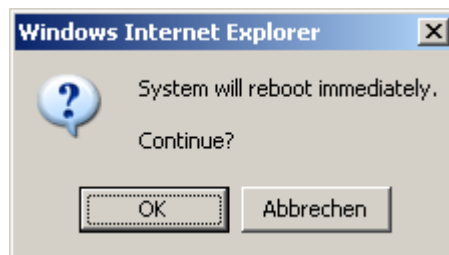
Send the selected configuration file to the camera

Delete the file path to the configuration file

6.5 REBOOT



Press "Reboot" to initialize the camera by restarting.
A confirmation popup will appear.

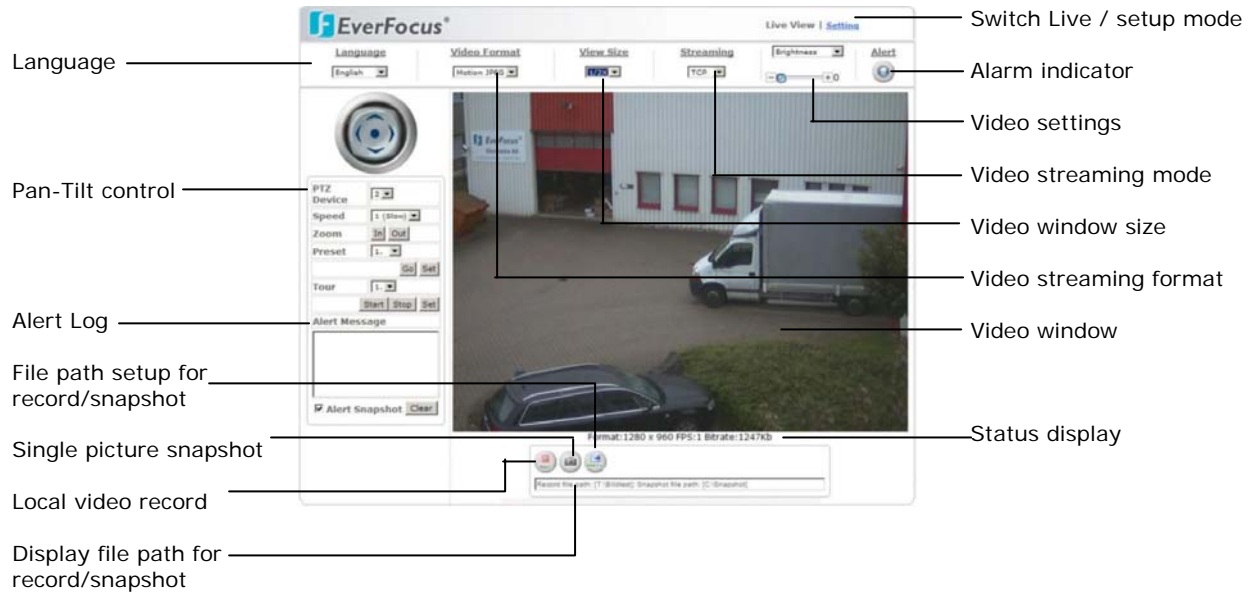


Confirm the request with "OK".

7 OPERATION

7.1 MAIN SCREEN CONTROLS

After successful login the main screen appears:



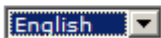
7.2 GENERAL AND VIDEO SETTINGS

Control item

Function

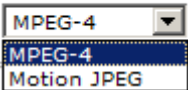
Language

Language selection



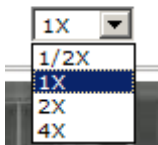
Video Format

Selection of videostream, MPEG-4 or Motion JPEG. Quality, size and framerate depend on the settings in >SETTING > VIDEO / IMAGE > VIDEO

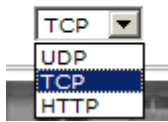


View Size

Display size of the videostream, 1/2x, 1x, 2x, or 4x size.



Streaming



Transmission mode of the video stream, the ideal mode depends on the network conditions:

UDP: Provides the fastest but most unreliable transmission service. Video streams are transmitted through UDP Port (50000~60000 by default) to ensure the fastest image transmission. However, video fragment or mosaics may occur due to poor transmission quality.

TCP: Provides reliable data transmission. Video streams are transmitted through RTSP Port (554 by default) to avoid video fragment or mosaics due to poor transmission quality.

HTTP: Video streams are transmitted through HTTP Port (80 by default) to ensure passing through firewalls.

Comparison between stream protocols

	Tunneling	Pocket Loss	Speed
HTTP	Easy	Fair	Fair
TCP	Fair	Lower	Fast
UDP	Hard	Lowest	Fastest

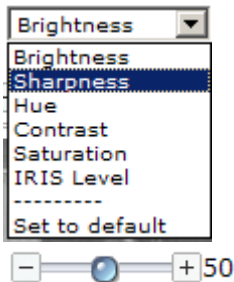


Image settings for Brightness, sharpness, contrast, Hue and saturation.

Use the slider to adjust best image quality.

Iris level: If a lens with DC - Autoiris is installed, the Iris level can be adjusted here. "-" closes the iris, "+" opens the iris.

7.3 EVENT ALERTS

Alert



Event alert indicator. The display is flashing red in case of event.

Alert Message



Event alert list.

Appearing events are listed in the message box.

Alert Snapshot: With activated checkbox a single event picture will be stored.



Clear: Delete all alert messages in the box.

7.4 PAN / TILT / ZOOM



PTZ Device	1
Speed	5
Zoom	In Out

Depending on setting the PTZ control works with electronic zoom (setting EZOOM in > SETTING > PTZ) or with external PTZ devices.

PTZ-Device: Select a PTZ device (setup in > SETTING > PTZ)

Zoom IN / OUT: Zoom In or Out in the picture.

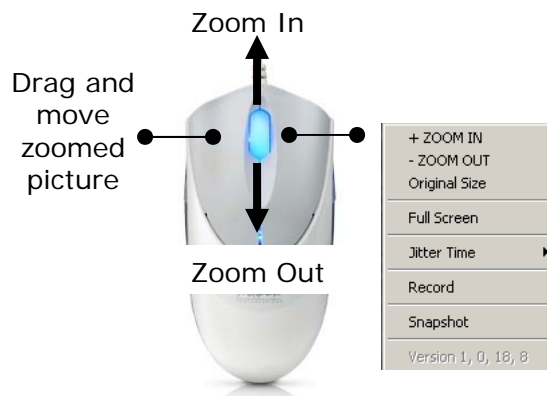
Arrow keys: Move a zoomed picture up/down/left/right

Speed: Speed of pan / tilt movements

NOTE: This way of PTZ operation is global for this video stream. This means, all other users watching this stream at other client PCs will see this PTZ operation. Alternative is a "local" PTZ - operation by mouse possible.

Alternative PTZ mode by mouse


Electronic zoom and electronic pan tilt is also possible by mouse, in this mode the PTZ operation is only visible at local client PC. Set Mouse focus to the video image.



- use mouse wheel up for Zoom In, mouse wheel down for Zoom out or
- open context menu by right click, select Zoom In / Zoom Out
- in zoomed in picture left click and hold in the picture, the mouse will move the picture up/down/left/right



7.5 RECORD / SNAPSHOT SETTING

Click on  to define the settings for manual record and snapshots.

Recording

Path

Doubleclick in the setup field to define the folder location for manual records.

Filename Prefix

Define a prefix for the record file name. The file name contains the prefix, start date and start time.

Example: Lobby1_20090128-142524.avi

Prefix: Lobby1

Start Date: Jan. 28. 2009

Start Time: 14:25:24

Record File Size / Record Duration

Record file size: Maximum size of a single record file in MB , up to 2048 MB

alternative:

Record Duration: Maximum length in seconds of a single record file

Snapshot

Path

Doubleclick in the setup field to define the folder location for snapshots.

Filename Prefix

Define a prefix for the snapshot file name. The file name contains the prefix, start date and start time.

Example: Lobby1_20090128-142524.jpg

Prefix: Lobby1

Start Date: Jan. 28. 2009

Start Time: 14:25:24

7.6 MANUAL RECORD



Press on "REC" to start a manual record. The file format is AVI. The storage location is defined by the "PATH" icon.



The icon will start to flash.



A RECORD symbol appears in lower left corner of the video window.



Press "REC" again to stop the record. The record will also stop after reaching maximum file size / maximum recording duration, which is defined in "PATH".

Note: Record will also stop with closing the Browser!

7.7 MANUAL SNAPSHOT



Pressing this icon will create a snapshot of current video image in JPG format.

The message box below shows the path of saved image:

Snapshot: C:\Snapshot\Snapshot__20090323-203741-099.jpg been saved.

7.8 AUDIO

The audio functionality depends on the installation and on settings in > SETTINGS > AUDIO.

Listen



Audio transmission from camera to client PC.
Click on the icon to switch the mode.



No audio from camera to client PC.
Click on the icon to switch the mode.

Speak



Audio transmission from client PC to camera.
Click on the icon to switch the mode.

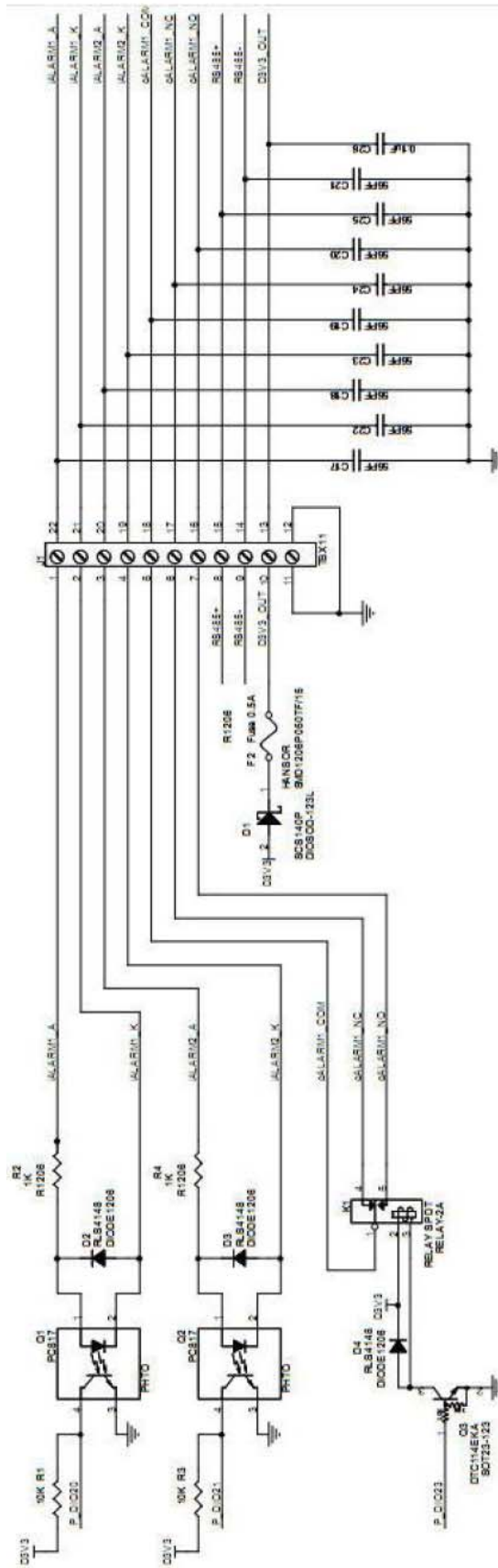


No audio transmission from client PC to camera.
Click on the icon to switch the mode.

7.9 FULL SCREEN MODE

For switching image to full screen right click in the image and select "Full Screen".
In full screen mode press ESC or double click in the window to switch back to normal screen.

8 ATTACHMENT A: ALARM INTERFACE CIRCUIT



EverFocus Electronics Corp.

Head Office:

12F, No.79 Sec. 1 Shin-Tai Wu Road,
Hsi-Chih, Taipei, Taiwan
www.everfocus.com.tw

USA Subsidiary:

1801 Highland Ave. Unit A
Duarte, CA 91010, U.S.A.
www.everfocus.com

European Subsidiary:

Albert-Einstein-Straße 1
D-46446 Emmerich am Rhein, Germany
www.everfocus.de

China Subsidiary:

Room 609, Technology Trade Building,
Shandgdi Information Industry Base,
Haidian District, Beijing, China
www.everfocus.com.cn

Japan Subsidiary:

1809 WBG MARIBU East 18F,
2-6 Nakase.Mihama-ku.
Chiba city 261-7118, Japan
www.everfocus.com

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