

ENR-100 Series

System Administrator's Manual For V4.01.14 Firmware

ENR-110 ENR-120 ENR-130 ENR-140

www.acti.com

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- Increase the separation between the equipment and receiver.
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About This Manual

Target Audience

This manual is intended for **System Administrators** who are responsible for installing and setting up video surveillance system. The reader is expected to know the fundamentals of IP surveillance system integration and to own the administrative privileges to install and configure all the devices.

You may also visit **ACTi Download Center** for updates and documents: http://www.acti.com/downloadcenter

Technical Support

If you have any questions during system installation, please feel free to contact our engineers via our **Customer Help Desk** platform <u>http://www.acti.com/CHD</u>.



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Introduction

Product Overview

ACTi ENR-100 Series (hereafter referred to as ENR) is a compact and reliable multi-channel standalone NVR. It features a stable embedded Linux operating system and capabilities of supporting mega-pixel resolution H.264 streaming, an HDMI output for local display, PTZ control, scheduled / event-triggered / event speed-up recording, event management, synchronized playback, time / event-based playback search and video bookmarks. Its smart Setup Wizard and intuitive user interface allow the system installer to enjoy effortless installation experience, while making it easy for new users to get acquainted with the operation by first-time use. Other than the local client, the remote PC client may access the ENR system simultaneously, and experience user-friendly web interface customized for browser-based operations.

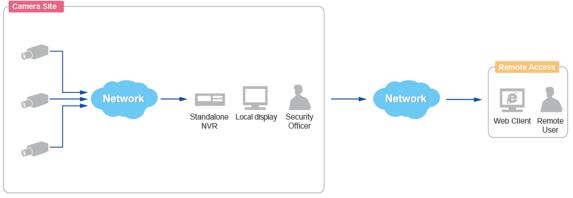
ENR Server / Client Architecture

In a video surveillance system architecture, **ENR** serves as service provider, aimed to run 24/7 non-stop a video management service for clients. An **ENR Client** makes requests for monitoring video streams or playing back recordings of **ENR**.

There are two types of **ENR** clients: **Local Client** and **Remote Client**. A client, connecting from whether a remote computer or from local, will be offered the same functionalities of ENR.

- •Local Client: In the local site, the client user directly operates ENR by connecting an HDMI monitor and a USB mouse to the physical ENR.
- •Remote Client: Over the TCP/IP network, the Remote Client communicates with ENR through HTTP Protocol. This client user will have to use a computer with Internet Explorer to access the ENR web interface, without the need of installing any client program beforehand. Logging in to ENR is as simple as visiting a website.





Remote User: Administrator / Supervisor / Manager / Security Officer

Remote Client PC Requirements

As ENR itself is a self-contained unit, the table below provides basic guidelines only for selecting proper hardware for the <u>remote PC client</u>. If your live view display quality is not satisfactory, please consider computers with more advanced spec as the decoding of multiple channels requires good hardware for smooth performance (*1).

PC Spec (*2)	Minimum Requirements
CPU Processor	Intel Core 2 Quad 2.66 GHz
RAM	4GB (*3)
Network	Ethernet (1000 Base-T recommended)
Operating System	Windows 7 and Windows 8 (All versions) (*4)
Display Resolution	1080p
Browser	Internet Explorer 9.0 or 10.0

- *1 The quality of video display performance lies not only in the hardware but a few variables. Please refer to Error! Reference source not found. on page Error! Bookmark not defined. for instructions on how to achieve ideal video performance.
- *2 PC spec requirements are the same for 32-bit and 64-bit systems.
- *3 Microsoft Windows operating system has limits on memory and address space, regardless of the real or virtual memory available on a particular computer. Please <u>use 64-bit system if your computer has more than 4GB RAM</u>.
- *4 Please make sure your operating system is fully patched with the latest service packs.

Supported Video Format

As 1080p HDMI monitors have become the most extensive display standard used in various applications, ENR is designed to conform to this standard with its capability of outputting 1080p video stream. Therefore, to reserve as much computing power for ENR unit as possible, **up to four-megapixel H.264 video stream** can be displayed on **local live** screen and **local playback** screen.

With a client computer, you may still acquire full support for displaying these types of video codec – MPEG4, MJPEG and H.264, and up to ten- megapixel video resolution from web client interface; also, the video stream is recorded at your desired format regardless of the displayed quality.

	Camera Management Export / Recording	Local Live View / Playback	Remote Live View / Playback
Codec	MPEG4 MJPEG H.264 (*1)	H.264 (*2)	MPEG4 MJPEG H.264
Resolution	Up to 10M pixels	Up to 4M pixels (*3)	Up to 10M pixels

- *1 ENR's "Auto Add" function will only add H.264 video streams.
- *2 H.264 is the only displayable codec for local live view and playback. The channels using other codec will appear blank, although the recording is proceeding normally.
- *3 ENR local live and playback can display up to four-megapixel resolution video. The channels using higher resolution video stream will appear blank, although the recording is proceeding normally.

Get Started

What's in the Box

This product package includes the following items:

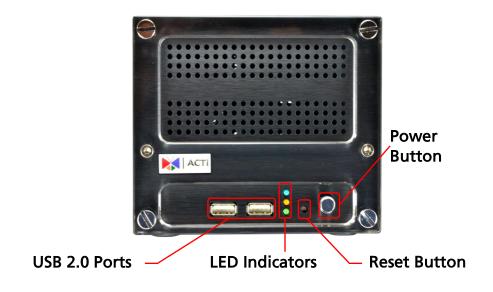
ltem	Description						
1	ENR Server x 1						
2	Printed quick installation guide x 1						
3	AC power adapter x 1						
4	Hard disk screws						
5	Adapter converter set x 1 (For ENR110-120-130) This unit contains three types of adapter plugs – UK type, US type and Europe type. These adapter plugs do not change the voltage, but will only change the shape of adapter to fit your electrical outlet. Please detach the plugs, take the plug type you						
	need and connect it to the AC power adapter.						
6	USB Mouse x 1						



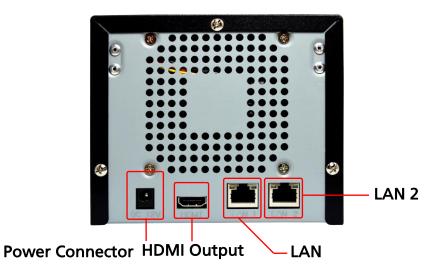
At A Glance

ENR-110/120/130

Front Panel

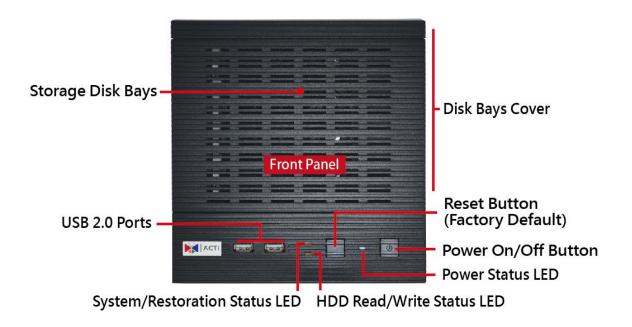


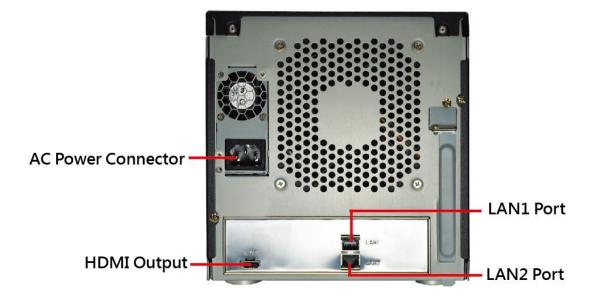
Rear Panel





ENR-140 Front Panel





Power Button & Reset Button

You can turn on / off the device with **Power Button**.

Turn On the Device

Press down the **Power Button** and release, the **Power LED** will light up and turn solid blue.

Turn Off the Device

As this unit is powered on, the **Power LED** and **System LED** are both lit, and the **Power Button** is in pressed state. To turn ENR off, please do the following:







1. On Live screen, click Setup \rightarrow Power tab, and click "Shutdown".

System	Network	Camera	Schedule	Event	Log	User	Maintenance	Ower Source
	[©] Reboo Click Shutdo	to restart th	is unit, which v		07 Gamera hile. boot			08 Camera
	10 Came Click	to shut down	n this unit, whi shuts down, the utton on the fr		stem Status LE completely po	D will go off, ower off the	please unit.	12 Camera
	14 Came	ira			15 Camera			16 Camera

The local display screen will turn black, with an information dialogue box showing up.
 Please observe the System LED on the front panel, when its orange light is off, you may press the Power Button to completely shut down the unit.

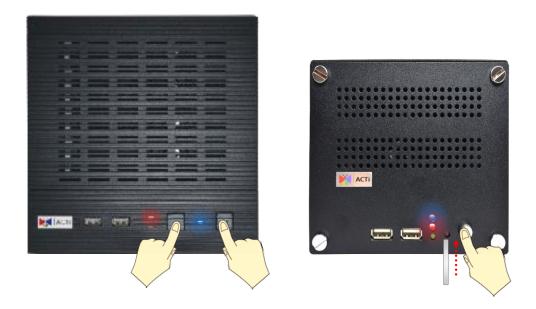


Reset to Factory Default

By resetting this device, <u>all **your system settings** and **system log** will return to factory default. It is strongly recommended that you back up previous settings with **Backup** function and export the system logs before resetting to factory default.</u>

- 1. To begin, please turn off the device first.
- Press down the Power Button to boot up the device, and immediately press and hold the Reset Button with a pin or clip, the System LED will light up for about <u>2~3 seconds</u>, and you may release the Reset Button as the red light is off.

The device will enter the resetting process immediately and automatically restart.



LED Indicators

The LED indicators on front panel show the current device status:

Item	Indicator Status	Light Color	Description
Power LED	Solid	Blue	The device power is on.
System Status LED	Lights up for three seconds after Reset Button is pressed	Orange	The system resetting process is initializing.
	Solid		The system service is running.
HDD LED	Flashing	Green	The hard disk is in activity.



Installation

The installation procedures may vary depending on your site conditions. The procedures provided in this manual are based on an example consisting of (1) local network, (2) an ENR unit, (3) ACTi network cameras, (4) a POE network switch and (5) necessary peripherals.

Prepare the Devices

Before starting connecting all the devices together, please read the instructions below to make sure your devices are ready for ENR system.

Cameras

ENR is able to automatically add the connected cameras then immediately displays their live streams without your further configurations. Please fulfill the conditions below to make sure your cameras are ready for ENR **Auto Add** function:

- For a camera whose settings have been changed from factory default, make sure its output stream is <u>H.264 encoder type</u>,
- 2. The camera's connection type is **Dynamic mode** (DHCP Client). You can configure the this connection settings via **Web Configurator**.

					Web Cor	nfigur	ator				ACTi
	• 🗙										
•	Host Date & Time Network IP Settings						Connect	ion Type*			
+	Connection Type DNS DDNS Video	·	•	Dynamic IP Address		Use ho	ostname	ACTI			
	Event System Logout				IP Address Subnet Mask Gateway	255	. 168 . 255 . 168	0 255 0	. 100 . 0 . 254		
				PPPoE	User Name Password	Арр	у	Ā	teset		

(ACTi camera web configurator interface)

If your camera is an other brand's product or you would like to add more streams from a device, use **Search Cameras** provided by **Camera Setup Wizard**.



Note

Since ENR displays only H.264 stream on local display, any device outputting non-H.264 stream will still be added to ENR system and viewed via the web client interface, while this channel will appear blank on local monitor.

Monitor

The monitor should supports HDMI port and 1080p full HD resolution display.

USB Devices

Please use a USB mouse, keyboard or joystick with a cable.

USB Storage Device

- •The USB storage device is required for system backup and system log / snapshot / video export.
- •ENR supports all FAT/FAT32/EXT2/EXT3/EXT4/NTFS file systems.

Hard Disks

For video recordings, you should install **at least ONE** certified 3.5-inch SATA hard disk. Please always use the hard disks ACTi tested to be compatible with ENR. You may find the certified models with **ACTi Hard Disk Selector** <u>http://www.acti.com/hddselector</u>.

Install the Hard Disks

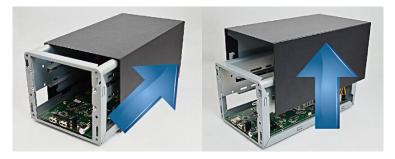
This system requires at least one hard disk to store video recordings and firmware image when upgrading system. Please follow the instructions below to install your hard disks in correct order to make sure the physical disk locations accord with the **Disk ID** shown in ENR server's **Storage Device List**.

ENR-110/120/130

Step 1 Remove the Case Cover

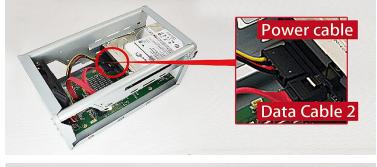


Remove the <u>four front</u> <u>panel screws</u>, and then remove the <u>three back</u> <u>panel screws</u>.



Slide the case backward until it stops, and then lift it up to remove.

Step 2 Install Disk SATA-2



Insert **Disk SATA-2** in the lower bay, connect <u>SATA</u> <u>power cable</u> and <u>SATA</u> <u>data cable 2</u> to the hard disk.

Make sure you connect the correct data cable to the corresponding disk.









Lock **Disk** SATA-2 using disk screws in this sequence: $A \rightarrow B \rightarrow C \rightarrow D$

Step 3 Install Disk SATA-1



Repeat **Step1~Step3** to install **Disk SATA-1** to the upper bay. Remember to connect **Disk SATA-1** with <u>SATA data cable 1</u> shown in the illustration in **Step 2**.

Step 4 Install the Case Cover Back



Install the case in reverse order of removal step (see **Step 2**), slide the case cover back until it clicks. Lock the back panel and then front panel with its screws.



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Please follow the instructions below to install your hard disks in correct order to make sure the physical disk locations accord with the **Disk ID** shown in ENR server's **Storage Device List**.

To start, **TURN OFF THE DEVICE**, open the front cover, repeat the following steps to install the hard disks into the disk bays.

Storage Disk Bays



Step 1 Remove the Tray



Slide the **Lock Tab** to the right, the **Hinge Tab** will pop out by itself. Remove the <u>four front panel screws</u>, and then remove the <u>three back panel screws</u>.



Pull the **Hinge Tab** to 90 degrees from the front, and pull out the tray.



Step 2 Mount the Disk



Mount the disk by locking it with supplied disk screws to the bottom of the tray.

Step 3 Install the Tray





Press on **Lock Tab**, push the tray into the bay until it stops.

Finally, close the **Hinge Tab**.



Network Connection Architecture

When connecting ENR with your network, please make sure you plug the network cable into the right port.

ENR-110/120/130



LAN 1 Port (Camera Port) Default: <u>192.168.0.10</u>

LAN 2 Port (WAN Port) Default: Dynamic /192.168.1.10

ENR-140



LAN 1 Port (Camera Port) Default: <u>192.168.0.10</u>

LAN 2 Port (WAN Port) Default: <u>Dynamic /192.168.1.10</u>

LAN 1 Port

LAN 1 port is the default camera port for a typical local network. Via this port, the DHCP server built in ENR automatically assigns IP addresses to network cameras once they are connected. With this feature, you do not have to bother arranging the camera IP addresses on your own. By default, this DHCP server is enabled, so <u>please avoid connecting ENR to a</u> <u>network where exits another DHCP server via this port</u>.

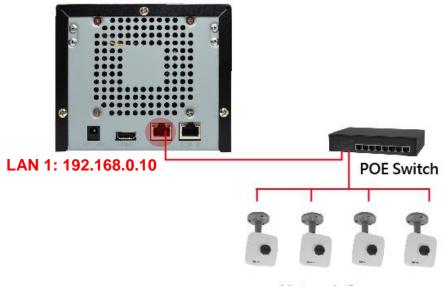
Connection Setting Example 1

Below diagram displays an example connection setting using only **LAN1** to connect networks cameras.

In this setting, ENR altogether with cameras are within the same network segment; in the mean time, there is no need of referencing another DHCP server in this system.

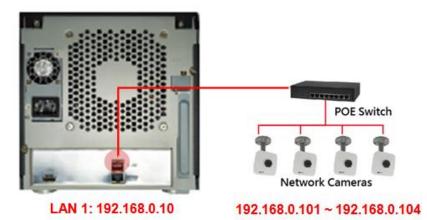


ENR-110/120/130



Network Cameras 192.168.0.101 ~ 192.168.0.104





LAN 2 Port

LAN2 port is a typical Ethernet port. You will have to use this port to connect with a different network segment when your system requires (1) the connection with a remote PC client or network cameras, (2) the use of event-triggered e-mail service via an external SMTP server (3) the use of date/time synchronization with external NTP server.

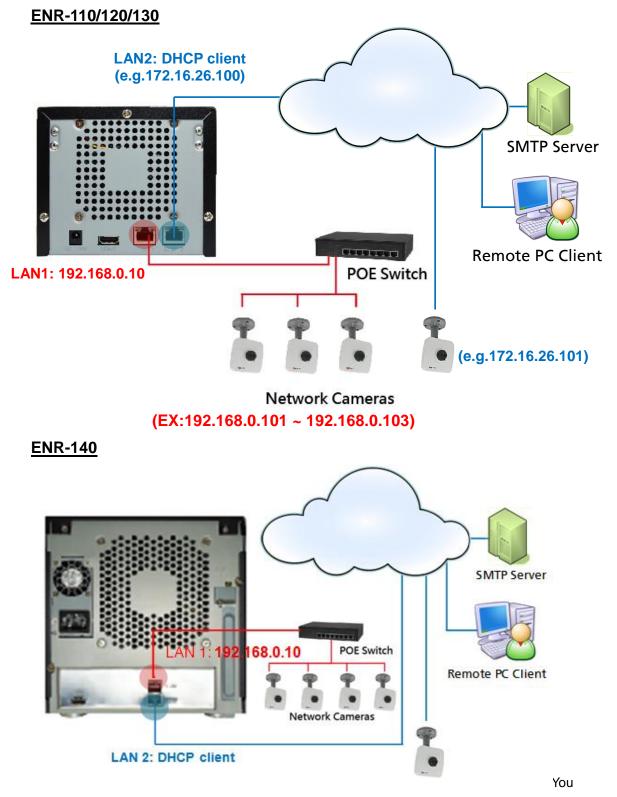
By default, once connecting to a network, it will first try to get an IP address assigned by your network router from DHCP server. If your network does not assign IP address automatically, then **LAN2** port will assume IP address **192.168.1.10**.

Connection Setting Example 2

The diagram below displays an example connection setting using LAN1 + LAN2 to connect networks cameras within different network segments.



In this setting, ENR with three cameras are within the same network segment, while there is another camera locating in another network. In addition, this system requires the connection with an external SMTP server and a remote client.



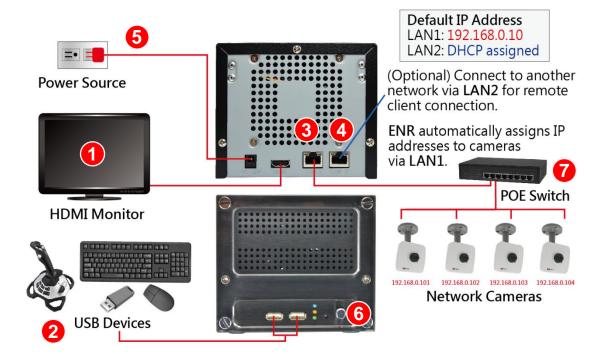
may check and modify the network configurations by going to **Live** screen \rightarrow select "**Setup**" \rightarrow click **Network** tab. (For detailed configuration instructions, please refer to <u>Network Settings</u> on page 52).



Connect the Devices

Follow the procedures to connect the devices. These devices are supposed to be connected in the sequence shown below.

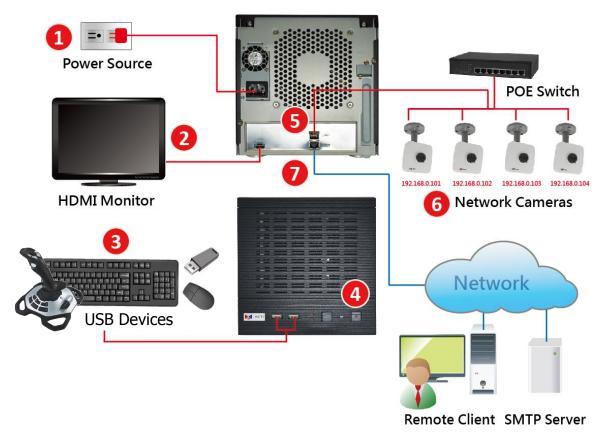
ENR-110/120/130



- 1. Connect the HDMI monitor.
- 2. Connect the USB devices.
- 3. Attach the network cable to LAN1 port.
- **4.** Attach the network cable to **LAN2** port. (Optional, required for remote client connection)
- 5. Plug the power adapter into ENR and electricity outlet.
- 6. Press down **Power Button** to start the device, the power status LED will turn solid blue.
- 7. Connect the network cameras to the switch and power them on.



ENR-140



- 1. Plug the power adapter into ENR and electricity outlet.
- 2. Connect the HDMI monitor.
- 3. Connect the USB devices.
- 4. Press down Power Button. The power status LED will turn solid blue.
- 5. Attach the network cables to LAN1 Port.
- 6. Connect the network cameras to the switch and power them on.
- 7. Attach the network cables to LAN2 Port. (Optional, required for the access to another network)



Quick Setup

By the first time you log in to ENR, the **Setup Wizard** with bring you through the initial setup process. By finishing the quick setup, you will enter live screen immediately.

Step 1: Log in to ENR

After the device starts, you will first see ACTi splash screen then system interface.



On **Login** window. Click into the **Account** and **Password** fields to enter the default account information - **admin / 123456**, then click "**Login**".

	ENR-130	
Account	admin	
Password	*****	
Language	English	
	Remember me	
	Auto login	
	Login	



Step 2: Format the Hard Disks

At present, the hard disks you installed in ENR are not ready for recording, they need formatting before use.

	01 Camera	02 Camera	03 Camera	04 Camera
− View		Welcome to HDD	Setup Wizard	
3 View 4 View 5 View		Storage Settings		
– Camera	05 Camera	0 Maximum Recording Days [Storage Device	7 Camera	08 Camera
		SATA-1 WD1002FBYS-02A6B0 SATA-2 WD2500YS-015HB0		
	09 Camera	1 Storage Information	1 Camera	12 Camera
		Capacity: 2 Used:	233.76 GB 0.00 GB	
– Event		Free: 2 Recording:	233.76 GB	
	13 Camera	File System: 1. Recordable:	unknown Format 5 Can NOa Enable	16 Camera
		S.M.A.R.T.:	PASSED Refresh	
		ОК		
	ENR1200	L 1 192.168.0.10 L 2 17	/2.16.26.56 🔮 0.00 GB 🎩	admin 🕓 2013/09/11 00:37:26
- PTZ	No Hard Disk is ready for recording, please format Disk(s).	at the Hard		Setup Live Playback

On **HDD Setup Wizard** window, select the unformatted disk and click "**Format**". Repeat this step to format the other disk, and then click "**OK**". As ENR has successfully formatted a hard disk, a message will pop out to notify you. After a successful formatting, the file system of the disk will show "**ENR-FS**", and this disk will immediately become ready for recording,

(Not Formatted)		(Formatted)		
File System:	unknown	File System:	ENR-FS	
Recordable:	NO	Recordable:	YES	

Step 3: Add Cameras

Please select **Auto Add** to automatically add cameras or **Search Cameras** to select cameras by yourself.



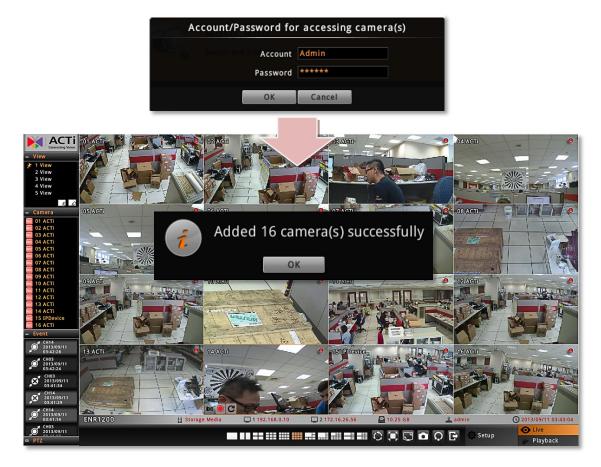
This will add detected H.264 video streams and display all video streams on **Live** screen right away

Search all the cameras including supported other brand cameras within your current network segment.



Auto Add

By using **Auto Add** function, <u>ENR will add the first detected H.264 streams</u>. Please input the **Account** and **Password** (this user account must be the camera's root account) to access the cameras.



Search Cameras

Search Cameras allows you to select desired cameras and streams from multi-streaming devices, including other brand cameras.

- 1. Select the camera manufacturer.
- 2. Input the Account and Password to access the cameras (this user account must be the camera's root account).
- 3. Click "Search".
- 4. Select your desired cameras and click "Add". Please note that your clicking order will decide Live View channels arrangement. For example, you select cameras on the search list in this order: TCM-4511 → TCM-5111 → D11 → E52, which will exactly become the channel order: 01 Camera → 02 Camera → 03 Camera → 04 Camera



			Search Camera	S		
	1 АСТІ		Search	3		
A	ccount admin			•		
Pas	sword *****		2	47	′ camera(s) f	ound. Supports 0/16
Name	Brand	Model	IP Address	Channel	Stream	Status
асті 🛕	ACT	е77 ксмС	172.16-25.1 172.1 D 2	1 1 E	- F	Inaccessible •
АСТІ	ACTI	KCM7911	172.16.26.2	2		Ŭ
ACTi	ACTi	KCM7911	172.16.26.2	3		
ACTi	ACTi	KCM7911	172.16.26.2	4		
АСТі	ACTi	KCM7911	172.16.26.2	5		
ACTi	ACTi	KCM7911	172.16.26.2	6		
	ACTI	E44	172.16.26.3			Inaccessible
ACTi	ACTi	D31	172.16.26.4	1	1,2	
	ACTI	E37	172.16.26.5			Inaccessible
	ACTi	B95	172.16.26.6			Inaccessible
ACTi	ACTi	B81	172.16.26.8	1	1,2	
ACTi	ACTi	TCD2500	172.16.26.9	1	1,2	
ACTI	ACTi	D54	172.16.26.10	1	1,2	
	ACTi	E96	172.16.26.17			Inaccessible
ACTI	ACTi	B21	172.16.26.44	1	1,2	
				4	Add	Cancel

No	Column	Description
Α	Name	The camera models will be listed in alphabet order based on their model names.
В	Brand	Camera manufacturer
С	Model	Camera model name
D	IP Address	Camera IP Address
Е	Channel	Represents video stream ID . For example, if a camera is in 4VGA mode, all four streams will be recognized as from four different devices, and so forth to a multi-channel video encoder.
F	Stream	Displays the camera's dual-streaming status. If this camera is in dual streaming mode, this status will shows "1,2". ENR will take stream 1 for live view display, and stream 2 for recording.
G	Status	Blank: this camera is accessible and not added yet. In Use: this camera/stream has been added to the system. Inaccessible: this camera is inaccessible. You will have to try accessing it using another Username or Password , (make sure this account is that camera's root account), and click Search .

Local Client Operation

Log in to / out of ENR

By default, an administrator account has already been existing in your system. To log in to ENR for the first time, you will have to key in the password in **Login** window.

Log In

ENR-130 Account admin Password ****** Language English @ Remember m @ Auto login Login

If you are not logged in yet, click on screen to bring up the Login window.

Change UI language A

To change UI language, select the desired language from "Language" dropdown list.

Remember Login Information B

To have the server remember your **Account**, **Password** and language setting for future, check "**Remember me**".

Set Auto Login

Check "**Remember me**" then "**Auto Login**", you will skip the **Login** page and directly enter **Live** screen when accessing ENR in the future. This feature makes using ENR more convenient, however it may pose a security risk because any other user can enter ENR using the account you established. The **Remember me** and **Auto-login** function will be cancelled when you logout from ENR.

Log Out

On Live screen, click "Logout NVR" 📑 .



Live Page UI Overview

After logging in, you will enter **Live** screen. **Live** screen is the interface where you see the live views from your cameras. It is where most of the security professionals access the surveillance system



No	Description
Α	View List:
	Lists five views available for customization.
в	Camera List:
	Lists all the connected cameras and their recording status.
С	Event List:
	Displays alerts of detected motion, recording and connection status.
D	PTZ Control Panel
	Provides live onscreen PTZ controls. This panel is only enabled when a PTZ camera
	channel is selected on live view display area.
Е	System Message
	Displays import messages to inform you of certain system conditions that require
	your prompt action.
F	Live Menu
	Lists available layout selection and live view operation controls
G	Page Switch
	You may switch to the Setup or Playback page by clicking the tags. The Setup page
	is only accessible from Live page.
н	System Status:
	Displays the following system status from left to right – (1) connected USB storage
	device, (2) LAN1 IP address, (3) LAN2 IP address, (4) total free disk space, (5) your
	user account and (6) current system time.

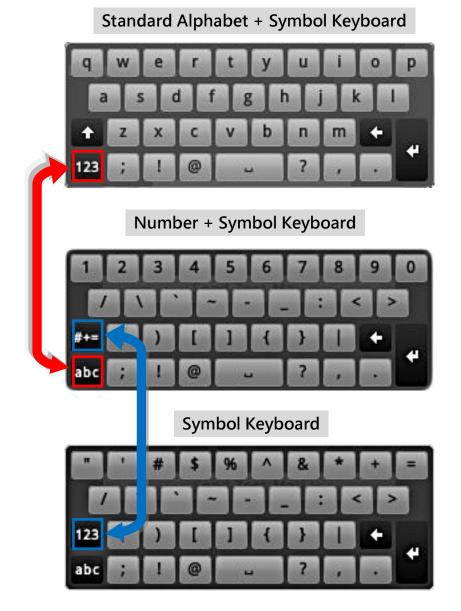


Input Devices

The physical input devices (e.g. USB mouse and USB keyboard) are ready to use when you connect them to ENR via USB ports.

Onscreen Keyboard

The onscreen keyboards allow you to input characters without using a physical one. By clicking in a character field (e.g. **Account** or **Server** name) or number field (e.g. **IP address** or **Port**), the specific onscreen keyboard will be brought up.



www.acti.com



Mouse Settings

You may adjust the mouse's cursor speed via the path below:

On Live screen, click Setup \rightarrow select System tab \rightarrow click "Mouse".

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	8
Informatior Date and Ti			or Speed	74	ALC ADDAL				
Email		Click	buttons to adj		rsor speed.				
Mouse Keyboard	10.00			Slow	-	÷	Fast		
Joystick									
	- 11 AST			ef jä	nası.			A REAL	

Onscreen Keyboard Settings

To disable the virtual keyboard if a physical one is already in use, on Live screen, click Setup

 \rightarrow System tab \rightarrow click "Keyboard". Uncheck the box "Always shows software keyboard".





Set Cameras

ENR user interface also allows you to easily configure, add or delete cameras without the use of another web browser. On Live page, click Setup \rightarrow Camera tab. "All Cameras" display all the added cameras, click "Add" to start adding cameras.

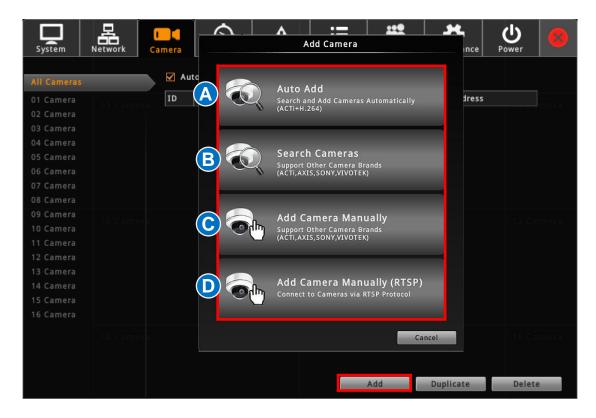
System	Network	Camera	Schedule	Event		Log	User	Maintena	ince l	U Power	8
All Cameras		Auto	matically appl	y these set	tings 1	to cameras	upon connec	ction.			
01 Camera 02 Camera 03 Camera 04 Camera 05 Camera 06 Camera		ID Nam	e	Bra	nd	Model	IP Addres	ss C	hannel	Stream	
07 Camera 08 Camera 09 Camera 10 Camera											
11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16 Camera											
						Camera	Add	Duplic	ate	16 Can Delet	e

Note

ENR will synchronize with devices upon connecting to them. To make sure the settings on ENR side are prior to those on camera sides, please check "**Auto save ENR settings into device upon connection**". When this function is enabled, every modification you make via camera web configurator will be overwritten by ENR.



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Add Cameras

Click "Add". There are four methods you can use to add cameras:

- (A) Click Auto Add to let ENR add the channels automatically. This is the same quick method provided by Camera Setup Wizard; please refer to <u>Auto Add</u> on page 33 for instructions.
- (B) Click Search to scan through the available video sources, and select desired cameras to add by yourself. This is the same quick method provided by Camera Setup Wizard, please refer to Search Cameras on page 33 for instructions.
- **(C)** You can add a camera by manually filling the connections properties. For cameras which are not located within the same network segment with ENR server, you may add it manually.
 - Select a Camera ID from the Camera List on the left, and click "Add Camera Manually".





2. Fill in the connection properties such as properties IP Address, Port, Username and Password, and click "Get Camera Settings".

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	8
All Cameras 01 Camera 02 Camera 03 Camera 04 Camera 05 Camera 06 Camera 07 Camera 08 Camera		Get (Gamera Setting Name IP Address User Name	Camera 172.16.26			P Port 80 sword *****		
09 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16 Camera									mera
	14 Came	ra:			15 Camera		Delete	16 Ca Sav	

3. The camera settings will appear. Click "Save" to save it to this camera channel.

System	Network	Camera	Schedule	Event	Log	User	Main	tenance		り wer	8
All Cameras		Get C	amera Setting Name	s Camera					ŗ	⊕ ¥	•
01 Camera	l oo came	TRA		172.16.26.5	07 Carrier I	HTTP	Port	80			
02 Camera					•						
03 Camera			User Name	admin		Pass	word	*****			
04 Camera			Brand	ACTi		Firm	ware	A1D-310	0-V4.12	2.09-AC	
05 Camera			Model	TCM3511		Serial Nur	nher	TCM351	1-100	-X-00014	1
06 Camera											
07 Camera			Stream Mode	SINGLE	•	Prot	tocol	ТСР			-
08 Camera			Channel								
09 Camera		Stre	1								
10 Camera		Sue									
11 Camera			Encoder	MPEG4							
12 Camera			Resolution	N640×480							
13 Camera											
14 Camera			Frame Rate	15							
15 Camera			Max Bitrate	UNLIMITED							
16 Camera			Bitrate	3M							
										0	
								Delete		Cour	
						l		relete		Sav	e



(D) You can manually add a camera through RTSP protocol without to the camera brand.

 Select a Camera ID from the Camera List on the left, and click "Add Camera Manually (RTSP)".



2. Fill in the properties, make sure you select the correct URI type and Protocol type, and then click "Save".

Network	Camera	Schedule	Event	Log	Use		Maintenance	Power	8
	RTSI	9 Stream Se	ttings						
oo camer				(3)					mera
	IP A		6.26.15		_	2			
	RTS					ACTI:		1	.
	Jser	Name admi	n			Appro Areco	: / nt Vision: /h26	4.sdp	
						AVTec	h: /	ary?streamTy	/pe=u
	Pr	otocol RTP (Over UDP			AXIS:	/mpeg4/media	.amp	Ŧ
					,	4,413.	/axis-media/m	eula.amp	
							Delete	4	
	10 Camer	IP A RTS Jser Pas	Name Came IP Address 172.1 URI / RTSP Port 554 Jser Name admi Password ****		Name Camera 33 IP Address 172.16.26.15 URI / RTSP Port 554 Jser Name admin Password ******	Name Camera 300 3 IP Address 172.16.26.15 URI / RTSP Port 554 Jser Name admin Password ****** Protocol RTP Over UDP	Name Camera IP Address 172.16.26.15 URI / RTSP Port 554 Jser Name admin Password ****** Protocol RTP Over UDP	Name Camera IP Address 172.16.26.15 URI / RTSP Port 554 Jser Name admin Password ****** Protocol RTP Over UDP	Name Camera Camera IP Address 172.16.26.15 Image: Camera Image: Camera URI / Image: Camera Image: Camera Image: Camera URI / Image: Camera Image: Camera <td< th=""></td<>



Copy Camera Settings

You may copy an added camera's settings to another **empty** channel. In this way, it is easier to manually add more than one camera of the same models.

On **Camera** tab, enter **All Camera** list, select the cameras you want to dupliacate, and click "**Duplicate**" The new cameras will be added to the list.

System	Network Ca	amera	Event	Log	User Maint		Ower S
All Cameras		Automatically appl	y these settings	s to cameras	upon connection.		
01 ACTi		ID Name	Brand	Model	IP Address	Channel	Stream
02 ACTi		1 ACTI	АСТІ	E97	172.16.26.181		1/1
03 ACTI		2 ACTI	АСТІ	B45	172.16.26.185		1/1
04 ACTi		з асті	АСТІ	E22	172.16.26.191		1/1
05 ACTi		4 ACTi	АСТі	E97	172.16.26.181	1	1/1
06 ACTi		5 ACTI	ACTI	B45	172.16.26.185	1	1/1
07 Camera		6 ACTi	ACTI	E22	172.16.26.191	1	1/1
08 Camera 09 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16 Camera			11	3			12 Camera
	14 Camera		15	Camera	Add Du	2 plicate	16 Comera Delete



Delete Cameras

You may delete one channel at a time or delete more all at once.

On **Camera** tab, enter **All Camera** list, select the cameras you want to delete, and click "**Delete**". To deletae multiple cameras at once, you can use the mouse to drage out a selection range and then select "**Delete**".

System	Network	Camera	Schedule	Event these setting	Log s to camera	User Maint	enance	Power 🙁
01 ACTi		ID Name	9	Brand	Model	IP Address	Channel	Stream
02 ACTi		1 ACTi		ACTi	E97	172.16.26.181	1	1/1
03 ACTi		2 ACTI		ACTI	B45	172.16.26.185		1/1
04 ACTi		3 ACTI		ACTI	E22	172.16.26.191		1/1
05 ACTi		4 ACTI		ACTI	E97	172.16.26.181		1/1
06 ACTi		5 ACTI		АСТІ	B45	172.16.26.185		1/1
07 Camera		6 ACTI		АСТІ	E22	172.16.26.191		1/1
08 Camera		o Ach		ACII	522	172.10.20.191	'	
09 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16 Camera								
					5 Camera	Add Du	plicate	16 Camera Delete



Change Camera Settings

After the cameras are added, you may change their properties on **Camera** tab.

- (A) Video format and transmission properties
- (B) Video adjustment
- (C) Motion Detection settings

System	Camera	Schedule	Event	Log	User Ma	intenance	U Power	8
All Cameras	Get C	amera Setting	ACTI				Ċ.	
01 ACTI		inc		217 Camera			(C)	3)
02 ACTi			172.16.26.	181	HTTP Po			
03 ACTi		tame	admin		Passwo	rd *****		
04 ACTi		Brand	ACTi		Firmwa	re A1D-500-\	/6.05.16-AC	
05 ACTi		Model	E97		Serial Numb	er E97A-XX	-13K-00569	
06 ACTI								
07 Camera		Stream Mode	DUAL		Protoc	ol TCP		
08 Camera		Live Stream		-	Record Strea	m 1		
09 Camera 10 Camera	Stre	am 1			Stream 2			nera
11 Camera								
12 Camera		Encoder	H264	-	Encod	er H264		
13 Camera	4)	Resolution	N1920x108	30 🔻	Resolutio	on N320x240		
14 Camera		Frame Rate	30	-	Frame Ra	te 10		
15 Camera		Max Bitrate	UNLIMITE	D 🔽	Max Bitra	te UNLIMITE	Ð	
16 Camera		Bitrate		F	Bitra			
		Ditrate	OM	M	DILIA	ZM		
								irrend
						Delete	Save	2

(A) Video Format and Transmission Properties

To modify the video format and transmission properties including Channel ID, Resolution,

Frame Rate, Protocol, and Bitrate, you will have to click Get Camera Settings first to sync with the camera first. After configuration, click "Save" to save this setting to

camera

Note

- **1.**Changing the video resolution will reset your current motion region settings. Please re-configure the settings later.
- **2.**For local display viewing, please DO NOT (1) change the video resolution to higher than 4M pixels or (2) change the video codec to MJPEG or MPEG4, for these types of video streams are only displayable through ENR web interface.



(B) Fine-tune the Image: Brightness/Contrast/Saturation/Hue

Not only clarity but also brightness, contrast, saturation and hue are essential factors to make images closer to real scene. For cameras that support these configurations, you may directly modify them and save via ENR interface.

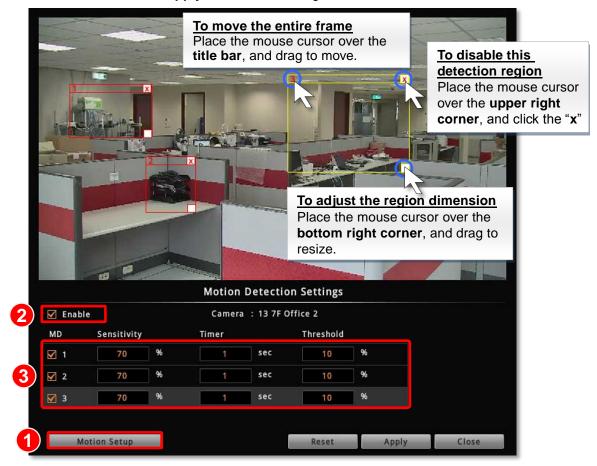
After selecting a camera, click "**Video Adjustment**" window, the fields available for modification (depends on models) will be enabled. Select the desired value for the field, and click "**Apply**".

	Video Adju			
	Camera : 1	3 7F Office 2		
Brightness	50	Lir	ne Frequency	60Hz 🔄
Contrast	3			
Saturation	35			
Hue	0			
		Reset	Apply	Close

Field Name	Description
Brightness (1-100)	Defines how much portion of light and of dark appear in the image. As the value increases, the image appears brighter, and vice versa.
Contrast (1-100)	Defines the range level between light values and dark values. As the value increases, the separation between light and dark becomes more obvious.
Saturation (1-100)	Defines the level of the actual color intensity. As it increases, colors appear more pure; as it decreases, colors appear more gray-out.
Hue(1-100)	It is the term used to refer to the pure spectrum colors. Adjust this value to find the color closest to the real scene.
Line Frequency (50Hz / 60 Hz)	The function that adjusts the shutter speed options to match the frequencies of artificial light source of given country. For example, in Europe, the light frequency is 50Hz (due to power supply frequency of lights), that is 50 flashes per second. By setting line frequency to 50Hz in such case, the shutter speed options will be proportional with light source frequency, such as 1/25s, 1/50s, 1/100s, etc. It is necessary to have the camera's line frequency adjusted according to the power frequency of the light source to avoid flickering effect.

(C) Motion Settings

After selecting the camera, click "**Motion Detection Settings**". If this camera is in dual stream mode, only **Channel ID 1** (Stream 1) supports motion detection feature. On **Motion Detection Settings** window, check "**Enable**" then click "**Motion Setup**". To enable one motion region, check it, a color frame will appear in the view. You may start setting the detection area by adjusting this yellow frame on the view. Simply use your mouse to move and resize the frame. Click "**Apply**" to save the settings.



Field Name	Description
Sensitivity (0-100%)	Determines how sensitive the camera reacts to the movement. The higher the sensitivity level is, the smaller motion will trigger the alarm, but may give false alarms. Default is 70%.
Timer (0-300 secs)	The interval before the next motion detection can be triggered again. Default is 1 second.
Threshold (0-100%)	The threshold level of this motion detection region. The lower threshold level is, smaller portion of the region would be considered as motions, which is more easily to be triggered, but may give more false alarms. Default is 10%.

Configure PTZ Presets

With PTZ cameras, you may define a view by where to look (through panning and tilting) and how close (through zooming) to zoom. Once these views have been saved in ENR as preset points, the device can always point to this view upon the event triggering or user's command. For local operation, the PTZ-related configurations are done on **Live** screen. Please note that, the PTZ-related settings you configure here will overwrite those on camera's firmware.

Open PTZ Panel

PTZ

B

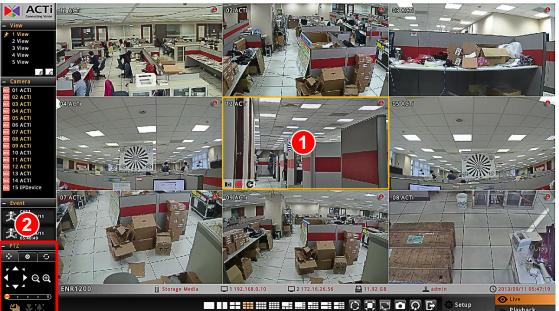
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5)

On Live screen, select a PTZ channel, the PTZ panel will become enabled.



Manipulate PTZ Movements

Click the tab to enter PTZ operation mode, and make make use of the device's PTZ capabilities to define a view.

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us)
Focus" is



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Go to Preset Points

You may create/delete/go-to preset points in this mode.

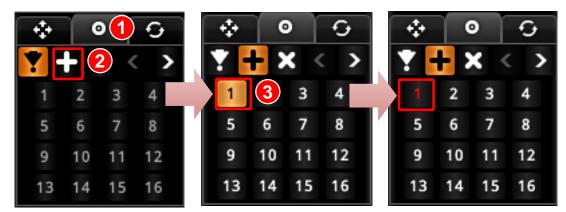
Go to a Preset Point

Click the tab **e** to enter **Preset Points Operation** mode, and click a red ID button.



Create a Presset Point

- 1. Go to **PTZ Operation** mode **•**, use onscreen buttons to define a view.
- 2. Click the tab to enter Preset Points Operation mode.
- 3. Click 🖕 🚽
- **4**. Click the desired preset point **ID** and input the point name in **Preset Point Setting** box. This preset point will be saved, and its ID will turn red.



Delete a Presset Point

On **Preset Points Operation** mode, click **S** and then the preset point you want to delete.

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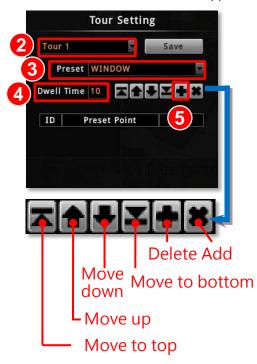
9

Edit PTZ Preset Tour

Preset Tour is a preconfigured PTZ sequence that directs the camera to cycle through multiple preset points, including where to look and how long to look at each location. With this preset tour, your PTZ device can perform an automatic patrol to scan through your cared areas.

Before setting up **Preset Tours**, please make <u>sure you have set</u> <u>PTZ Preset Points</u>. To start:

- 1. On **PTZ Panel**, click **S** and then **t** to enter Tour edit window.
- 2. On Tour Setting window, select a Tour from drop-down list.
- 3. Select a Preset Point from drop-down list.
- 4. Set the Dwell Time, default is 10 seconds.
- 5. Click 🛖 to save this point into the list.
- 6. Repeat step 1 ~ step 5 to add other points in your desired movement sequence. You may use the edit buttons to change the point order or delete a point. Click "Save" when this Tour list is well set. Click "Close" to exit this window.
- 7. The ID of a saved tour will appear red. Click on it to start the tour, and click 🔲 to stop it.



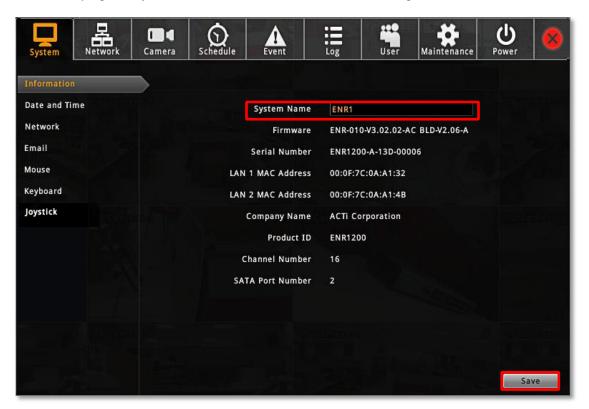






Device Information

To change the device name, check firmware version information or Mac address, please go to Setup page \rightarrow System tab \rightarrow Network



After modifying the **System Name**, click "Save" to save the settings.



Network Settings

There are two network interface cards in ENR. Either of these cards can be supported by the built-in DHCP server feature, which enables ENR to assign IP addresses to cameras via **LAN1** or **LAN2** port without another DHCP on router.

Go to Setup page \rightarrow Network tab

The current settings of both LANs will be displayed here.

By default, LAN1 card is set to Manual mode with a fixed IP address *192.168.0.10*, while LAN2 is in DHCP client mode. It is suggested that you connect LAN1 to LAN and connect LAN2 to WAN.

System Networ	rk Camera	Schedule	Event	Log	User	Maintenance	U Power	8
Information	Co	nnection Info	rmation					
Network Connection								Ni.
Port Mapping				LAN 1		LAN 2		
DHCP Server		Sta	tus					
DDNS		Hardware Addr	ess 0	D:0F:7C:0A:A1:3	2 00:0	DF:7C:0A:A1:4B		
		Spe	ed	100 Mbps		100 Mbps		
101		Connection Ty	/pe	Manual		DHCP		
		IP Addr	ess	192.168.0.10	1	72.16.26.56		
		Subnet Ma	ask	255.255.255.0	2	55.255.255.0		
		Gatev	vay	192.168.0.254	1	72.16.26.253		
U 511		DNS Sett	ing	Manual		Auto		
	awaalaa	Primary DNS Ser	ver			172.16.5.19		*
	Sec	ondary DNS Ser	ver			172.16.5.20		



IP Settings

Go to **Setup** page \rightarrow **Network** tab \rightarrow click "**Network Connection**" and select the **LAN** interface card that you wish to set up. After setting up, please click "**Save**" on the bottom right to save the settings.

LAN Connection Status

Shows "Activated" when connected to a network. Shows "Detected Network Cable Disconnection" when not connected to a network

L

System Network	Camera	Schedule	Event	Log		User	Ma	intenance	U Power	8		
Information		LAN 1				LAN 2						
Network Connection Port Mapping DHCP Server		Activ Configuratio	on									
DDNS		You can obtain an IP address aut If it does not, the following sett Connection Type			itomatically if your network includes a DHCI tings must be specified: Manual					*		
10/2671			IP Address Subnet Mask		. 16	10.	. 0 . 255	. 10				
			Gateway	192	. 16	58	. 0	. 254				
		Prima	DNS Setting		ual							
			ry DNS Server		· · ·		·	•				
	Defau	lt Gateway 🛛 🛛	AN 2 🔽						Se	ive:		

Field Name	Description
	Choose one connection type for this LAN port. DHCP and PPPoE
	service will assign an IP Address to ENR, and there is no need for
	you to define other network information.
	Manual: Please obtain a static IP address and other network
	information including Subnet Mask, Gateway and DNS server from
.	your network administrator.
Connection Type	DHCP : Use this connection type if you have a DHCP server on your
	network router.
	<u>PPPoE</u> : Chose this when your ISP is using PPPoE type DSL line.
	Please contact you ISP to get the Username and Password for this
	connection.
	LAN1 default is <i>Manual</i> ; LAN2 default is <i>DHCP</i> .
IP Address	Fixed IP Address. LAN1 default is 192.168.0.10; LAN2 default is
	Auto.



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Subnet Mask	Used to define if the destination is in the same subnet. LAN1 default is 255.255.255.0; LAN2 default is <i>Auto</i> .
Gateway	A valid gateway setting is essential for data transmission between different subnets, such as accessing the DNS service or SMTP server on the Internet. LAN1 default is <i>192.168.0.254</i> ; LAN2 default is <i>Auto</i> .
DNS Setting Primary DNS Server Secondary DNS Server	The DNS server that translates domain names to actual IP addresses. If this LAN is Manual mode, and you will set an SMTP server for event notification, be sure to set the Primary DNS and Secondary DNS. LAN1 default is <i>Manual</i> ; LAN2 default is <i>Auto</i> .
Default Gateway	Choose the gateway of the LAN card whose network is to connect with Internet. Default uses <i>LAN2's setting</i> .

Change Port Setting

The default connection port used for remote web client to communicate with ENR is *80*. To change it, click "**Port Mapping**" to modify and save the setting.

	twork Cam		Event	Log	user User	Maintenance	Power	8
Information		Port Mapping						
Network Connecti	ion	Please set your Hi	TTP port for rer	note clients	and comman	nds.		
Port Mapping DHCP Server DDNS			HTTP Port	80				
							Sav	/e



Enable DHCP Server

You may enable the built-in DHCP server for either $\ensuremath{\text{LAN1}}$ or $\ensuremath{\text{LAN2}}$ port.

Go to **Setup** page \rightarrow **Network** tab \rightarrow click "**DHCP Server**":

- 1. Check "Enable" and select a LAN, this LAN has to be in Manual mode.
- 2. Set the Beginning IP Address and Ending Address, and click "Save". ENR will assign

IP addresses within this range to the cameras connected to the selected LAN port. Please (1) make sure the cameras are in DHCP client mode, (2) connect and power the cameras up <u>after</u> you enable this service.

System Netwo	era Schedule	Event	Lo			Jser	м	ainte	nance	U Power	8
Information Network Connection Port Mapping	DHCP Server Please enable DH clients on the spe	CP server to cified netwo	ork.		y assig	n IP (addres	s lea	ses to a	II DHCP	
DHCP Server	Subne	Network et Address	Enal		168		0		0		
		bnet Mask st Address	255 192 192	• •	255 168 168		255 0 0].[0 255 101		
		IP Address	192]•[168]•[0] • [] • [200		
			TEAL T							Sa	ve



Enable DDNS Service

ENR has built-in the DDNS update client feature, which saves ENR domain name address information and actively update its ip address to the DDNS provider's server.

 Visit the dynamic DNS service provider's website and register the domain name for your ENR.

ENR supports the following service providers:

- DynDNS: <u>http://www.dyndns.com</u>
- NO-IP: <u>http://www.noip.com/</u>
- 2. Go to Setup page \rightarrow Network tab \rightarrow click "DDNS".
- **3.** Check "Enable", select the service provider, and input the Host Name, User Name and Password.
- 4. Click "Save" to save the settings.

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	
Information Network Cor Port Mappin	nnection g	DDI Dyn tho	amic DNS allo	ws your serv t possess a :	static IP addres	ique addres s.	s on the Internet	, even	
DHCP Server			н	e Provider lost Name lser Name	DynDNS acfitest				
				Password	*****				
								Sa	ve



Date & Time

ENR provides three methods to synchronize the time setting; you can (1) manually set the date and time, (2) sync with Time Zone or (3) synchronize with NTP server.

	Network	Camera	Schedule	Event	Log	199		Date/	Time S	etting		-
System	Network	Camera	Schedule	Event	Log			March		2013	-	►
Information		Date	e and Time		N	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Date and Ti	ne	Dat	e and mile			25	26	27	28	1	2	3
Date and m	in.	Click	the button to	change syster	⊓∖ (. "	4	5	6	7	8	9	
Network				20	013/09/0-01	11	12	13	14	15	16	
Email				20	13/09/0501	18	19	20	21	22	23	
						25	26	27	28	29	30	31
Mouse		Tim	e Zone			e s 1	2	3	4	5	6	7
Keyboard		Sele	ct time zone ar	nd configure d	laylight savir	NTP Server	: 56	ad acti ci		OK		Cancel
Joystick			Time Zo		00) Asia/Taip	ei						(Ville)
				🗌 Enabli	e Daylight Sav	ing lime						
		NTP	Server									
		Sync	hronize system	time with th	e NTP server.							
			NTP Serv	er acti-ad.a	cti.com				A	pply		

On Live screen, click Setup \rightarrow click System tab \rightarrow click "Date and Time"

Setup Manually

In **Date & Time** section, click the button that shows date and time information on it. On the popped-out calendar, select the correct date and time, then click "**OK**".

Synchronize with Time Zone

In **Time Zone** section, select your zone from the **Time Zone** drop-down list. If your time zone falls in Daylight Saving Time area, you may check the box "**Enable Daylight Saving Time**", and then system time will automatically adapt itself to daylight saving time clock.

Synchronize with NTP server

In **NTP Server** section, fill in the NTP server IP or domain name in the NTP Server field, and click "**Apply**" to start synchronizing.

E-mail Settings

ENR supports e-mail notification for **Event Handling** sent through an SMTP server. To enable this service, you will have to configure the SMTP mail settings in advance. For SMTP service, please go to **Setup** page \rightarrow **System** tab \rightarrow **Network** and make sure the **Default Gateway** adopts the setting of the LAN connection has access to the SMTP server.

1. On Live screen, click Setup \rightarrow Select System tab \rightarrow click "Email".

Information Date and Time	Email	server to send m	ail when an event o				
Network Email Mouse	5.172.16	Sender Email Server Port	wen.cheng@acti.com		2	ice C-E51	
Keyboard Joystick		Account Password	wen.cheng ********* Send T	est Mail	3		

- 2. Fill in every field according to the detailed instructions in the table below.
- 3. Click "Send Test Mail" to send a test mail to this e-mail account. If the test mail is sent successfully, the dialog box below will pop up, which means your ENR server is ready to send out e-mail notifications when being triggered by an event.



4. Click "Save" to save these properties.

Field Name	Description
Sender Email	Input the sender's e-mail address, should the same account you set for SMTP
	server.
Server	Input the sender's SMTP server address. Only alphabets, numbers, and the



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	symbols (.), (_), (-) are valid. ENR server supports the SMTP services with
	SSL protocol. If you wish to use a free webmail SMTP service, you may
	choose certain webmail providers such as Yahoo (SMTP:
	smtp.mail.yahoo.com Port:25) or Gmail (SMTP: smtp.gmail.com Port:25 or
	465 for SSL protocol / 587 for TLS protocol)
Port	Set the SMTP port, allowed value is from 1~65535, default is 25.
Account	Input the name of the SMTP server account. The form of account name
	depends on mail server, e.g. a Hotmail account name is a complete e-mail
	address, while other mail servers' are not. Only alphabets, numbers, and the
	symbols (@), (.), (_), (-) are valid.
Password	Input the password of the SMTP server account. Only alphabets and numbers
	are valid.



Disk Management

ENR keeps the recordings on SATA hard disks installed in it. Whenever recording is taking place, ENR writes data to one of the disks, and switch to the other as the original one is full. Once the available space of the whole system is less than the reserved size, ENR will start deleting the oldest file to make the amount of space allowing each active channel to record for another 10 minutes.

You may observe the disk memory and recording status on Storage page.

On Live screen, click Setup \rightarrow click System tab \rightarrow click "Storage". The connected storage devices will be shown in the Storage Device list. Select a storage device to check its Storage Information appearing as below.

Storage Device Types

- SATA1 represents the disk installed in upper bay for saving recordings.
- SATA2 represents the disk installed in lower bay for saving recordings.

• **Storage Media** represents the connected USB disk that you inserted for carrying firmware image file, backup file, exported system log file, snapshots or video.

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	8
Information Date and Tim Email	ie 06 Camei	ra 👘	'age Settings Maximum Reco	rding Days	07 Cam <u>era</u> 7	Days	Apply	- 08 Ca	
Storage		Sto	age Device					_	
Mouse Keyboard Joystick		-	SATA-1 WD100 SATA-2 WD250 Storage M	00Ү5-015НВ0					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Sto	age Informat	tion				12.Ca	
			Capacit	y:	927.72				
			Use	d:	9.98	GB			
			Fre	e:	917.74	GB			
			Recordin	g:		YES			
			File Syster	n:	15 CameræN	R-FS	Format	1 6 Ca	
			Recordabl	e:		YES	Disable		
			S.M.A.R.	Г.:	PAS	SED	Refresh		



Format Hard Disks

Any newly-installed hard disk has to be formatted into ENR file system format. Click "**Format**" to start formatting a new disk. After formatting, this disk will become ready for recording.

During normal operation, **DO NOT REMOVE ANY DISK FROM THIS UNIT**, or it might cause damage to the disks. You can only remove or install a disk when the device is shut down.

Please note that the system will stop recording during the disk formation.

Storage Settings - Set Recording Deletion Rule

In ENR system, there are two file-deletion mechanisms:

1. User defined - Maximum Recording Days

ENR can keep recording files for a certain number of days defined by you. Set this rule if you have more concern about how long the recordings are kept, especially when you do not want the old recordings to stay longer in the system than a certain period. By default, this rule is not activated, to modify it, check the box to input a number between **1~999** and click "**Apply**".

2. Default - Automatic Disk Deletion

This is the default file deletion rule. When the total recordable disk space is full, an amount of disk space for approximate ten-minute long recording will be cleared to save new recordings.

If you activate the "**Maximum Recording Days**" rule, either of the thresholds reached earlier will execute the deletion first. Given that you set the **Maximum Recording Days** as **5 days**, the recording files that stay on the disks longer than this period will be deleted, despite that there is still plenty of available disk space; on the other hand, if your disk space is not enough to keep all the recordings for **5 days**, ENR will still delete the oldest files whenever the space is full.

Before setting up the rules, you can make use of a handy storage calculator provided by ACTi to find out the estimated storage your system requires: <u>http://www.acti.com/project_planner</u>

Also, be careful when you apply the **Maximum Recording Days** setting, for ENR will execute the deletion rule immediately whenever you click "**Apply**", meaning that the all the recording files kept longer than the last applied number of maximum days are just deleted in no time.



Check Disk Status

Hard disk failure often comes after detectable signs and thus can be predicable, thus it is important to detect these signs long before they really cause disk failures.

ENR performs **S.M.A.R.T**. Disk check on 24-hour basis since last check. This technology enables a system to monitor the disk status and anticipate disk failures, helping the system administrator to prevent from unexpected outage and data loss.

You may manually perform an instant S.M.A.R.T check by clicking "Refresh".

Once the disk a appears in "WARNING", "FAILED", or "UNKNOWN" status, it is not reliable for recording, and may fail when the number of bad sectors on the disk has grown high enough.

Storage Device		Storage Device		
SATA-1 WD6400AAKS-22A7 SATA-2 WD6400AAKS-22A7 Storage Media		SATA-1 WD6400AAKS-22A		l Disk
Storage Information		Storage Information		
Capacity:	596.17 GB	Capacity:	593.06 GB	
Used:	5.00 GB	Used:	6.01 GB	
Free:	591.17 GB	Free:	587.05 GB	
Recording:	YES	Recording:	YE5	
File System:	ENR-FS Format	File System:	ENR-FS	Format
Recordable:	YES	Recordable:	YES	Disable
S.M.A.R.T.:	PASSED Refresh	S.M.A.R.T.:	FAILED	Refresh



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S.M.A.R.T Status	Description	Solution
PASSED	This disk is in normal condition.	
WARNING	Certain error has been found on this disk.	1.On "Storage" page, select the disk and click "Disable" next to
FAILED	A number of errors have been found on this disk.	Recordable status to stop the system from saving recording
UNKNOWN	Unable to get the disk information.	into it. 2. Watch playback and export important video / system log.

Manage Abnormal Disks

A disk that is not recognized as "**PASSED**" by **S.M.A.R.T.** check may have unexpected failures anytime. However, it will still continue recording until it finally fails.

After you disabled the recording on this disk and review important recordings,

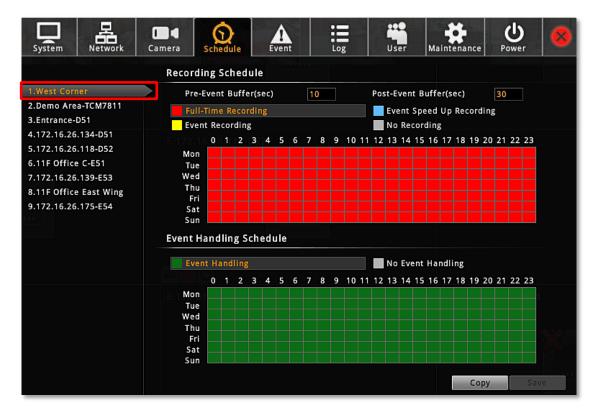
- **1.** Turn off the device.
- 2. Replace the abnormal disk with a new one, and turn on the device.
- Go to Live screen, click Setup → click Maintenance tab → click "Storage", and click "Format" to format the new disk.

Schedule Recordings

Unlike the traditional analog surveillance system, the IP surveillance system provides a target-oriented recording schedule for devices; the view of each device can be recorded based on your required time segments and event types. For example, you may have a camera installed on the office ceiling do continuous recording during work hours, and record only upon the triggers (incidents that detected by system) at night. In this way, the system does not waste disk space storing meaningless parts, and you save lots of effort browsing playback for specific events.

For the recording schedule, ENR supports **Schedule recording**, **Event recording** and **Event Speed-up Recording** modes, which are set up on a week-based timetable; the event-handling schedule is configured here.

On ENR, you can configure camera's recording schedule on 7 days / 24 hours basis. The schedule is split into segments of one-hour-length. By default, once a device is added to the system, its schedule is automatically set to full-time schedule recording and event handling. You should configure it according to your system plan.



On Live screen \rightarrow Select Setup \rightarrow click "Schedule" tab and select one channel.



Event-Recording File Length

Before setting the recording schedule, you may define the length of an event recording. To do this, configure the following properties shown as below, which will make an event recording as long as 10+30 second:

Rec	ording Sche	dule			
	Pre-Event But	ffer(Sec)	10	Post-Event Buffer(Sec)	30
Fie	əld			Description	
Pre-event Buffer (sec)	Recording	is triggere	ed, ENR will	che of video received from automatically store the pro e event itself.	
Post-event Buffer (sec)	· · · · · · ·		determine ho	w long after the event is ecording file.	triggered should be

Set the Recording Schedule

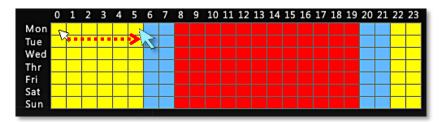
On the time table

1. Click on the recording mode from

Full-Time Recording	Event Speed Up Recording
Event Recording	No Recording

Field	Description
Full-Time Recording	Continuously record at the video frame rate you define in Camera
	Settings.
Event Speed Up	Continuously record everything at 1FPS, when an event occurs, the
Recording	frame rate will switch to the value you define in Camera Settings,
	and automatically switch back to 1FPS after the event ends.
Event Recording	Only events are recorded, at the video frame rate you define in
	Camera Settings.

2. Click and drag over the "Time Track" to set time period.



3. Click "Save".



Set the Event Schedule

The **Event Schedule** defines when the event handling is activated. To set the event rules, please refer to <u>Set Event Rules</u> on page 68.

on page 68 for Event Rules settings. By default, the event handling is full-time activated; you may disable it during certain time period.

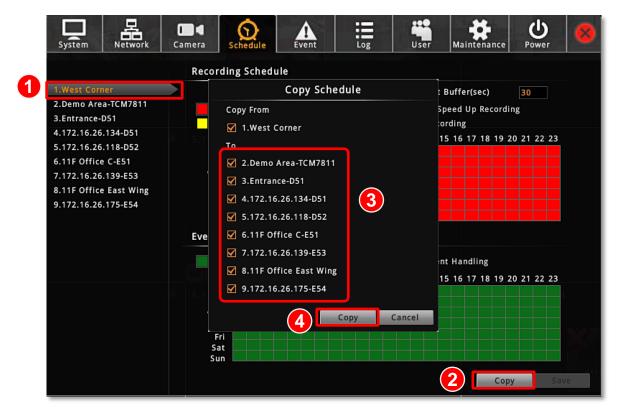
- 1. Click on the recording mode "No Event Handling".
- 2. Click and drag over the "Time Track" to set time period.
- 3. Click "Save".

Tue Wed Thu	Event	Ha	nd	ling											No	Eve	ent	Hai	ndli	ing					
Tue Wed Thu		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Wed	Mon																								
Thu	Tue																								
	Wed																								
	Thu										_								- 1						
	Fri																		-		N				
	Sun																								

Copy Schedule

You may copy a camera's schedule setting to other multiple cameras. This saves much your time on configuring the schedules camera by camera.

- 1. On **Schedule** tab, select a source camera from camera list, its schedule will be copied to others.
- 2. Click "Copy"
- 3. On Copy Schedule window, select the target cameras.
- 4. Click "Copy" on Copy Schedule window.



Event Management

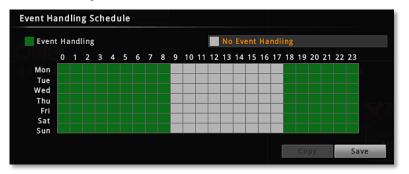
When something happens on camera site, such as someone walks by, the door opens or a fire breaks out – these are all **Events**. The event which occurs in the environment and was pre-programmed in the camera serves as **Triggers**. Triggers cause the device to react with **Responses**. The link between trigger and response is governed by **Event Rules**. Each event rule detects one specific trigger and may initiate multiple responses. An example rule would be for ENR to send an e-mail to alert the manager (**Response 1**) and trigger the alarm (**Response 2**) when motion on camera site is detected (**Trigger**) during the event handing active period (**Schedule**).

Each device can be involved in several event rules. As different camera models possess various capabilities, the supported response types would vary. For example, a PTZ camera can execute a go-to preset point response, while this option is not available for other models without this feature.

Event-Handling Schedule

Event rules become active or inactive based upon a weekly schedule, to enable event-handling service, you will have to make sure the event-handling schedule of certain device is well configured. By default, the event-handling schedule of each camera is enabled for 24 hours once it is added to ENR system.

To configure the **Event Handling Schedule**, on **Live** screen, click **Setup** \rightarrow click "**Schedule**", select the camera, and drag on the 24-hour time table.





Set Event Rules

On Live screen, click **Setup** \rightarrow click **Event** tab \rightarrow select a camera.

System	Network	Camera	Schedule	Event	Log	User	Maintenance	Power	8
1.West Corne	ar	, c	Camera West	Corner			Motion Dwell Ti	me (Sec) <mark>10</mark>	
2.Demo Area 3.Entrance-D	-TCM7811	Motion	Event 1			Respons	e		
4.172.16.26. 5.172.16.26. 6.11F Office	118-D52	Motion Motion							
8.11F Office 8.11F Office	139-E53	DI 1 On							
9.172.16.26. ⁴	175-E54	Networ	k Loss k Recovery						
			Set	Co	ру	Clear This	Clear All	Save	

- Once a device is added to ENR server, the server would provide empty rules with compatible trigger types for you to configure such as Motion 1, Motion 2, Motion 3, DI 1, DI 2, Network Loss and Network Recovery. Select the Event Type, then click "Set".
- **2.** Select the trigger type:
- Trigger DO

Set the DO to become ON or OFF upon trigger, only the devices supporting DO functions are available. Check the "**Enable**" to enable this function, and the device whose connected DO(s) will be triggered. You may select one DO to be activated after the other and the duration time between them. Clik "**OK**" to confirm.

Came	era West Corner		Event: Motic	n 15tion Dwell Time (
🐓 Trigger DO	Send Mail 🔕 Go	to Preset Beep	Enlarge	
	M Enable			
	01 1 Cin Camera	1 West Corner		
	Network Loss DO	DO1 On		
	After Duration	30	Second(s)	
	Then DO	DO1 On		
			01	
			ОК	Cancel



Send Mail

Enable ENR to send e-mail notifications via SMTP service.Check the "Enable" to enable this function, and fill in the mail recipient's e-mail address in "To" field, notification title in "Subject" field and mail body in "Body" field, then choose a camera whose snapshot will be attached from Attach a Snapshot dropdown list. Clik "OK" to confirm. Please note that if you want to attach a snapshot to the notification e-mail, make sure your local display stays on Live screen during the event handing period, in this way, ENR can take the snapshots for motion events.

To enable this service, you have to configure the e-mail setting (please refer to <u>E-mail</u> <u>Settings</u> on page 58) before this trigger is enabled.

		<u>^</u>			
Irigger DC	🖌 🗹 Send Mail	Go to Preset	Веер	Enlarge	
	🗹 Enable				
	Motion 3	• wells.wei@acti	.com		
	Subje	ct Camera: 1 Wes	t Corner - I	Event: Motion	1
		Camera: 1 Wes	t Corpor		
		Channel ID: 1	it corner		
	Вос	y Event: Motion Server: ENR			
	Attach a Snapsh	ot 3 Entrance-D51			

Go to Preset

For the use of PTZ cameras to make movements toward certain triggers, please configure the preset points (refer to <u>49Go to Preset Points</u> on page 49) on **Live** screen before you set the event rule.

On **Go to Preset** tab, check the "**Enable**" to enable this function (if there is no PTZ camera exsiting in ENR server to execute a PTZ response, a red sign would appear on the tab **Go to Preset**, please add a PTZ camera). Select which PTZ camera in ENR server to make the movement, then the preset points and duration time between them. Click "**OK**" to confirm.

ra 172.16.26.	7-TCM6630			vent:	Motion 1		
Send Mail	🛷 Go to Pre	iset B	eep Ei	nlarge			
🗹 Enable							
	Camera	9 172.16	26.7-TCM6	630			
	Go to Preset	1					
Nelwork Los A	fter Duration	5		Sec	ond(s)		
Then	Go to preset	2					
				0	ĸ	Cancel	
	Send Mail	Camera Go to Preset After Duration	Send Mail ✔ Go to Preset B	Send Mail ✔ Go to Preset Beep Er Enable Camera 9 172.16.26.7-TCM6 Go to Preset 1 After Duration 5	Send Mail Co to Preset Beep Enlarge	Send Mail Co to Preset Beep Enlarge	Send Mail Co to Preset Beep Enlarge



●Веер

ENR device can play beep sound upon being triggered by events. On **Beep** tab, check the "**Enable**" to enable this function. Input the duration time and prepeat times of the beep. Click "**OK**" to confirm.

Came	ra 172.16.26.7-TCM6630		Event: Motion 1
Trigger DO	Send Mail ళ Go to P	reset ✔ Bee	D Enlarge
	M Enable		
	DI 2 On Duration	5	Second(s)
	Times	3	
			OK Cancel

Enlarge

Live screen will display certain channel view in full screen for a while when the system is triggered. On **Enlarge** tab, check the "**Enable**" to enable this function. Select the camera whose live view will be enlarged on **Live** screen and the duration time. Click "**OK**" to confirm.

Came	ra 172.16.26.7-	TCM6630	Event: Motion 1	
Trigger DO	Send Mail 🔦	🖊 Go to Preset ✔ Bee	p ✔ Enlarge	
	🗹 Enable			
	Camera	3 Entrance-D51		
	Duration	5	Second(s)	
			ок	Cancel

- After configuring the event handling rules, on Event tab, input the dwell time in Motion Dwell Time (sec): 10
 for all the rules you set. Dwell Time defines, after an event occurs, the period of time during which the same event will not be triggered again.
- 4. On Event tab, click "Save" to save the settings.

Clear Event Rules

On **Event** tab, you may select an event rule under certain camera, and click "**Clear This**" to delete it, or "**Clear All**" to deleta all the rules belong to this camera.



Copy Event Rules

You may copy a camera's event rules to other multiple cameras. This saves much your time on setting up rules one by one.

- 1. On **Event** tab, select a source camera from camera list, its rules will be copied to others.
- 2. Click "Copy"
- 3. On Copy Event window, select the target cameras.
- 4. Click "Copy" on Copy Event window.

1.West Corner 2.Demo Area-TCM7811 3.Entrance-D51 4.172.16.26.134-D51 5.172.16.26.118-D52 6.11F Office C-E51 7.172.16.26.139-E53 8.11F Office East Wing 9.172.16.26.7-TCM6630		Copy Event				Motion Dwell Time (Sec) 10		
	Motic Motic DI 1 DI 2 Netw	To ✓ 1.West (✓ 2.Demo ✓ 3.Entran ✓ 4.172.16 ✓ 5.172.16 ✓ 6.11F Of	Area-TCM7811 ice-D51 5.26.134-D51 5.26.118-D52	ad Marita 3	Se	Se 6.11F Office C-ES1		
			fice East Wing	Cancel				



Joystick

ENR supports two types of controller for local operations:

- IP Desktop, manufactured by CH Products
- Extreme[™] 3D Pro, manufactured by Logitech
- 1. Connect the joystick to this unit.
- 2. Go to **Setup** page \rightarrow **System** tab \rightarrow **Joystick**.



3. There are 12 buttons available on each controller; you may assign a function selected from dropdown list to any button. Every time you change the settings on this page, please click "Save" to save the settings of this joystick model.



System Log

ENR records the important system activities and user's behaviors in **System Log**. Once the number of logs exceed **3000**, ENR will erase the earliest 100 logs.

System	Network	Camera	Schedule	Event	Log	user	Maintenance	U Power	8
	Log Date								
	🔵 All Da	ys							
	🗿 Date F	lange							
	From	2014	4/04/01	То	2014/04/01				
	Log Type								
	Select	All							
	🗹 User (Operation	🗹 Setup	System	🗹 Setup So	chedule	🗹 System St	atus	
	🗹 Setup	Device	🗹 Setup 🛛	User	🗹 Setup Ev	vent	🗌 Request L	og	
	Other Condi	tions							
	Source	Local							mera
	Account	Admin							
	Camera	2 ACTI		Ð				Search	

On Live screen, click Setup \rightarrow click Log tab

1. Define the time range:

You may choose "**All Days**" to show all the logs or choose "**Day Range**" to specify a range.

- 2. Select Log Types
- **3.** Define other conditions. For example, you can view the logs of all remote clients by selecting "**Remote**" for **Source**.
- 4. Click "Search" to start searching.will automatically refresh accordingly.



Syst] em	Network (Camera Schedu	le Event	Log	User	Maintenance Power
[Bac	k Expor	rt			Tota	42 << 1
	ID	Date	Туре	Account	Source	Camera	Description
	1	2014/04/01 16:44:08	Setup Device	admin	Local	8	Add Camera
	2	2014/04/01 16:43:35	Setup Device	admin	C Local Cod	7	Add Camera 08 Composition
	3	2014/04/01 16:17:00	Setup Device	admin	Local	6	Add Camera
	4	2014/04/01 16:17:00	Setup Device	admin	Local	5	Add Camera
	5	2014/04/01 16:17:00	Setup Device	admin	Local	4	Add Camera
	6	2014/04/01 16:16:04	Setup Device	admin	Local	3	Add Camera
	7	2014/04/01 16:16:04	Setup Device	admin	Local	2	Add Camera
	8	2014/04/01 16:16:04	Setup Device	admin	Local	1	Add Camera
	9	2014/04/01 15:28:09	Setup Device	admin	Local	16	Delete Camera
	10	2014/04/01 15:28:09	Setup Device	admin	Local	15	Delete Camera

Export System Log

To export the logs, insert a USB disk into ENR, click "**Export**" and save the xml file to your local computer. You may view this file on a computer with **Notepad** or **XML Editor**.

```
<?xml version="1.0"?>
- <Logs>
- <Log Source="Local" Account="admin" Date="2013/09/07 04:51:08" ID="1">Camera 9 is added </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:50:05" ID="2">Camera 9 is added </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="3">Camera 9 is added </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="3">Camera 9 is added </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="3">Camera 9 is added </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="3">Camera 9 is added </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="4">Camera 3 is added </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="5">Camera 9 is deleted </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="5">Camera 9 is deleted </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:47:54" ID="6">Camera 9 is deleted </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:47:54" ID="6">Camera 9 is deleted </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:47:54" ID="6">Camera 9 is deleted </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:47:54" ID="6">Camera 9 is deleted </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:47:54" ID="6">Camera 9 is deleted </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 04:47:54" ID="6">Sackup system configuration </Log>
</Log Source="Local" Account="admin" Date="2013/09/07 00:48:40" ID="8">Suser login </Log<//li>
```



User Group Management

In ENR, the access permissions are managed by **User Groups**. **User Groups** defines what functions are allowed for a group of users. Different **User Groups** will have different access rights in terms of permitted operations like monitoring **Live** screen or execute **Playback**. For example, an Administrator user is allowed for all the operations in ENR, while a standard normal user may only be permitted to do **Live** monitoring.

On Live screen, click Setup \rightarrow click User tab to enter Group and User management page.

Add a Group

By default, the **Administrator** User Group with full permissions in ENR already exists. Except for the password and e-mail settings, you may not delete this account or change its permissions.

 Select "Group", click "Add" to bring up Add New Group window, enter the Name and Description of the group, and click "OK" to add it to the Group List.

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	8
Group		Grou	p						
User		Admi	Name nistrator	Full perm	ission and sy	Descri stem contro			
				Add New uard ecurity	Group OK	Cancel	6.11F Of		
		Perm	ission (East)	Wing	A	dd	9, 172, 16	.26.7-TCM te Si	5630 ave

2. On Group List, select this group. In Group Permission section, enable the permissions possessed by this group.



System	Network	Camera		Event	Log	User	and the second second	tenance	U Power	8	
Carrie		Gr	oup								
Group			Name			Deccr	intion				
User		Ad	ministrator	Full permis	sion and syste	Description em control					
			lard	security							
		5.1	72.16.26.118-L)52				D.TTEOM	ce C-E5		
		Pe	rmission: East	Ning					26.7-T	M6630	
			Live	🖌 Playback	🗌 S	etup		Remot	e		
					Add		Edit	Delete		Save	

3. Click "Save" to save the group settings.

Edit / Delete a Group

You may edit an existing group by changing its **Name**, **Description** or **Permissions** or delete it. Once you delete a group, the Users belonging to it will be removed altogether. Select the group on Group List, click "**Edit**" or **Delete**".

Add a User

By default, the **Administrator** User already exists, which you may not delete.

- Select User, click "Add" to bring up Add New User window, enter the Name, Password, Email and select its User Group from dropdown list. Click "OK" to add it to the User List.
- 2. Click "Save" to save the user settings.

Account /Password Rules

- Account field allows alphabets, numbers, and symbols except the following: * < > ? | " \ :. The maximum length of characters is 15.
- **2. Password** field allows alphabets, numbers and symbols. The maximum length of characters is 40.
- 3. Both the Account and Password field are non-case-sensitive.



System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power
Group		User						
User			Name		Group		Email	
			Ad	d New U	ser			
			Nar Passwo Confirm Passwo Em User Gro	ord ** ord ** ail sec@a	icti.com nistrator		5,11F of	
					ОК	Cance	J.172.16	
					A	dd	Edit Dele	ete Save

Edit / Delete a User

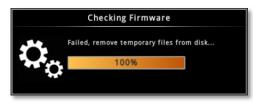
You may edit an existing user or delete it. Select the user on **User List**, click "**Edit**" or **Delete**". Please always click "**Save**" before leaving this page.

Upgrade Firmware

You may check ACTi corporate website for latest ENR firmware package and download it. Unzip the package and save the *.upg file to the <u>root directory</u> of a USB disk and insert it into ENR USB port.

- On Live screen, click Setup → click Maintenance tab → select "Firmware Upgrade".
- 2. Click "Browse", find the target *.upg file and click "Open".
- 3. Click "Upgrade".

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	
Storage		_	Firmware Up;	grade					
	ackup/Restore		Select file(*.up		system.	-AC.upg		Upgrade	
Troublesho	Adjustment								
									630



During upgrading, the system will stop every other activity including recording and event handling. The system will auto-restart after the upgrading completes.

After upgrading has started, **DO NOT cut off the system power or eject the USB disk until ENR restarts**.

Please note that

The USB disk carrying the firmware image should at least have **200 MB** free space.



Backup / Restore Settings

Making regular system backups is always recommended in case of unexpected disasters or accidents that may damage ENR server.

ENR server can create a backup file of the whole system settings as Backup_[yyymmdd].nvr file and save it to a connected USB disk within one click. The backed up settings include the following properties: (1) System Settings including System Name, Date & Time, Network, Email, Mouse and Keyboard, (2) Camera Settings, (3) Schedule Settings, and (4) Event Management.

The recordings will be kept on hard disks, please refer to <u>ENR User's Manual</u> to export a system log file and to export video files for a complete backup.

Backup

To start backing up system setting, please insert a USB disk into ENR first.

 On Live screen, click Setup"→ click Maintenance tab → click "Settings Backup / Restore".

System Network	Camera	Schedule	Event	Log	User	Maintenance	Power	8
Storage	В	ackup						
Firmware Upgrade Settings Backup/Restore	в	ack up setting	s to USB flas	h drive (*.nvr)			Ba	ckup
Troubleshooting	5.172					6.11F		
Language Adjustment						e Name: Backu	p_20130312	2.nvr
		File Nar		_20130312.nvr		п£э	▼ Res	store

2. Click "Backup", the backup file will be saved to your USB disk as .nvr file.



Restore

Before starting restoring the system, make sure you have connected the USB disk with the desired .nvr backup file in it, and the backup file is saved in the <u>root directory</u>.

 On Live screen, click Setup → click Maintenance tab → click "Setting Backup / Restore".

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	8		
Storage			Backup								
Firmware U	pgrade ckup/Restore		Back up settings to USB flash drive (*.nvr)								
Troubleshoe		5.1									
Language A	djustment		Restore								
			Select file(*.nvr)				ngs				
			File Nam	File Name Backup_20130312.nvr Restore Backup_20130312.nvr Backup_20120217.nvr							
							<u>~</u>				
									6630		

- All the .nvr file detected from your USB disk root directory will be shown on the File Name dropdown list, select your desired one.
- **3.** Click "**Restore**" to start restoring the settings. The server will restore the settings from the backup file and reboot.

Customize Live Screen Layout

You may customize the layout style, channel position and patrol behavior. Your arrangement of Live screen layout will be the default view after any local user logs in to ENR.

Change Channel Position

You may place any channel in your desired window, and ENR will remember this arrangement until you change it.

You may move a camera view to any position by dragging it to the target channel.

In the example below, the green numbers represent the order of channels. Dragged by the mouse, Camera 1 will be swapped from Channel 1 to Channel 5.



You can **Reset** the camera positions by clicking **O** on **Live Menu**.

Change Layout

To select a desired layout, click one on Live Menu. Each layout will display specific windows shown below. Therefore, you have to make sure the cameras you desired to watch are placed in the designated channels before applying the layout.





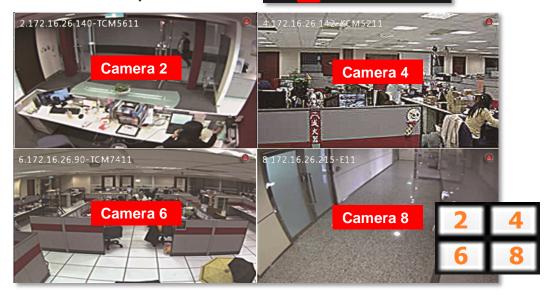


For example, to watch **Camera 2,4,6,8** in a **quad layout**, you should:

- 1. Select a square grid layout (2x2, 3x3 or 4x4) where you can see all channels.
- Place Camera 2 into Channel 1, Camera 4 into Channel 2, Camera 6 into Channel 3, and Camera 8 into Channel 4.



3. Select the 2x2 layout on Live Menu.



Note

The five customized views for local live view and those for remote live view are maintained separately; therefore, any modification you make to the views on **View** here list will not affect the View settings on remote **Live** screen.



Execute Sequence Patrol

The patrol function will slide-show multiple channels at your defined length of interval. At one time the layout will show as many channels as its maximum display channels. For instance, as Patrol is enable, a 3x3 layout will show channel 1~9, then 10~16 by turns.

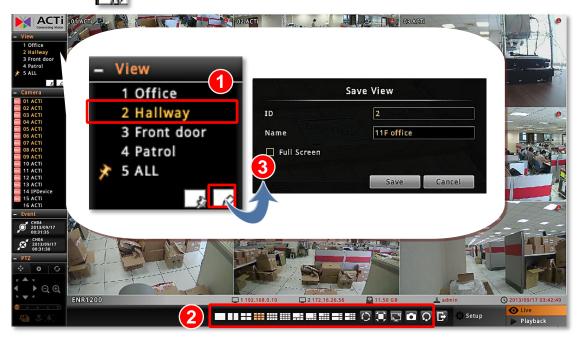
Patrol Time Setting									
5	Second(s)								
ОК	Cancel								

- 1. On Live Menu, click is to bring up the Patrol Time Setting window.
- 2. Input the patrol time
- 3. Click "OK", the patrol will start until you click () again.

Save a Customized View

You may save up to five customized view on local **View List**. A saved view will remember (1) the layout style, (2) camera arrangement, (3) view size (stretched / un-stretched / full-screen) and (4) Patrol setting.

- 1. Select a View from the View List.
- 2. Customize your layout with the tools provided on Live Menu.
- 3. Click / in bottom right corner of View List, enter



Set a Default View

If you have enabled "**Auto-login**" function (please refer to <u>Set Auto Login</u> on page 35), you may also set one View as default, in this way, you may immediately start live monitoring after the system starts up. To set a default view, simply select a desired view on **View** list, and click



Customize System Language

ENR user interface supports multiple languages and offers you the flexibility to change the wording. There are over **10** supported UI languages you may choose on **Login** page. Each language (**except for English**) is open for customization based on your own needs. This section will describe how to choose or customize language wording for your ENR.

To start, you need to connect a USB disk to ENR to export the language file for editing.

Modify the Wording

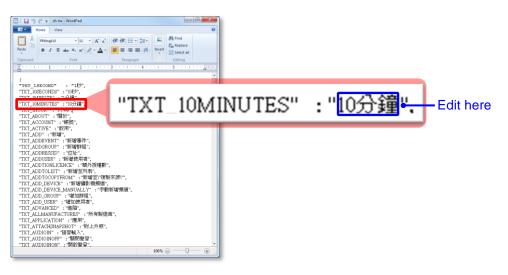
After the USB disk is connected,

- 1. On Live screen, click Setup \rightarrow click Maintenance tab \rightarrow click "Language Adjustment".
- 2. On Language Adjustment page, below Export Language section, select your desired language form original language file list, and click "Export". ENR will pop up a window as the file is successfully saved to USB disk.

Network	Camera	Schedule	Event	Lo	g	User	Maintenance	U Power	8		
Unavada											
Settings Backup/Restore											
anguage Adjustment Import Language Language file name											
Export zh-tw.json to USB flash storage success. Please check it.								heck			
	ŀ	estore Langu	lage								
Restore default language translation file.											
			F	ile Name	český (o	s.json)	F	estore			
	Upgrade eackup/Restore ooting Adjustment	Network Camera	Network Camera Schedule Export Langua Export language sackup/Restore sooting Adjustment Import Langu Export zh-tw.json to b it. Kestore Langu	Network Camera Schedule Event Export Language Export Language Export language translation Upgrade Export language translation Filler ackup/Restore Import Language Filler adjustment Import Language Filler Export zh-tw.json to USB flatit. Kestore Language Restore Language Restore default language translation	Network Camera Schedule Event Lo Export Language <	Network Camera Schedule Event Log Export Language Export Language Export language Export language Export language Import language Import Language Language Export language Export language Import language Import language Language Language Import language Language Import language <t< td=""><td>Network Camera Schedule Event Log User Export Language Export Language Export language translation file (*.json). File Name File Name</td><td>Network Camera Schedule Event Log User Maintenance Export Language Export Language Export language translation file (*.json). Export language translation file (*.json). Import Language File Name 中文(禁情) (zh-tw.json) Import Language Adjustment Import Language Language file name Import Language Language file name Import Language OK Restore Language Restore default language translation file.</td><td>Network Camera Schedule Event Log User Maintenance Power Upgrade Export Language Export language translation file (*.json). Export Export File Name 中文(繁領) (zh-tw.json) Export Adjustment Import Language Language file name Import Language Language file name Import zh-tw.json to USB flash storage success. Please check it. Kestore Language</td></t<>	Network Camera Schedule Event Log User Export Language Export Language Export language translation file (*.json). File Name File Name	Network Camera Schedule Event Log User Maintenance Export Language Export Language Export language translation file (*.json). Export language translation file (*.json). Import Language File Name 中文(禁情) (zh-tw.json) Import Language Adjustment Import Language Language file name Import Language Language file name Import Language OK Restore Language Restore default language translation file.	Network Camera Schedule Event Log User Maintenance Power Upgrade Export Language Export language translation file (*.json). Export Export File Name 中文(繁領) (zh-tw.json) Export Adjustment Import Language Language file name Import Language Language file name Import zh-tw.json to USB flash storage success. Please check it. Kestore Language		

3. On a computer, open the file (*.json) with a text editor program. Each entry represents the current wording of an object. Please edit the wording of your language embedded in quotation marks ("") <u>on the right of the colon;</u> The English term appearing on the left is the original system code, which should be left unchanged.





- **4.** After the modification is done, save this file with its original file name and file type onto the USB disk, make sure the text encoding format is **UTF-8**.
- Connect the USB disk with ENR, on Language Adjustment page, select the language file from drop-down list below Import Language section, and click "Import".
 ENR will pop up a window as the file is successfully imported into ENR server.

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	8
	ckup/Restore		xport Langu xport languag mera-1	e translation f		sh (en-us.jsor) J	Export	
Troubleshor		I	mport Langu mport languag estore Lang	e translation				Import	
			more 1	t language tra		(cs.json)	09 Came	ra-1 Restore	

- Log in to ENR again. On Login window, select the UI language before you click "Login".
- 7. Check the UI to see if the modified term is correctly shown.

Restore the Wording

ENR always keeps the original language file in its memory, so you can restore the language wording to default. On **Language Adjustment** page, select the language file from drop-down list below **Restore Language** section, and click "**Restore**". The entire original language wording will restore after you log into the system again.

Remote Client Operation

Access ENR Server

A remote client refers to any client using a computer over WAN or LAN other than server computer. If you know the IP address and port number of the ENR, you may type in the IP address and port number directly into Internet Explorer. Sample IP will look like this: http://220.228.146.21:1000 or domain name http://enr.acti.com. If the port number is **80**, you do not need to append it when typing the address.

http://ip address:port number



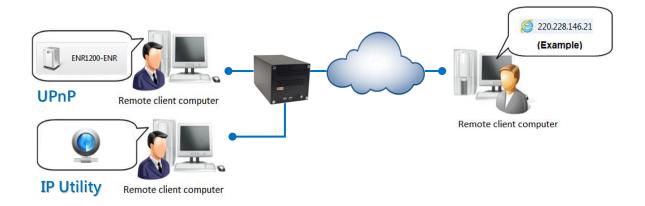
Find ENR in Your Network

The ip address of both ENR's LAN ports are shown on local live screen.





If your client computer and ENR are both within the same network, find ENR's IP address via the following two quick methods - **UPnP** connection or **ACti IP Utility**.



Via UPnP Connection

ENR supports UPnP connection. This means that once the device has an IP address, you will be able to find it in the local network in **Windows Explorer** \rightarrow **Network**. Please note that your PC must be in the same subnet with ENR.

Once you locate ENR, double-click on it to open the client browser.

						l	
00	🛛 🖣 🕨 Network 🕨					▼ 4 ₇	Search Net 🔎
File Ed	dit View Tools Help						
Organize	 Search Active Directory 	Network and Sharing Center	Add a printer Add a	wireless device		6. =- M =-	• 🔟 🔞
	Internet gateway device						^
 Other 	Devices (54)						
Ũ	ACD2000-09C-X-00043	ACD2100-10A-X-00	450	ACM1431-08H-X-00040		ACM3401-07L-X-00008	
Ũ	ACM3701-10H-X-00473	ACM3701-12G-E-00	0300	ACM4201-09C-X-00538	Ĵ	ACM5801-10A-X-00008	
Ũ	ACM7411-10C-X-00373	ACM8511-08E-X-00	002	CAMERA-091545	Ĵ	CAMERA-0969F8	E
Ũ	CAMERA-09D558	CAMERA-09D8FF		CAMERA-0A01FA	Ĵ	D32A-XX-13A-00038	
J	D51A-02-12H-00010	D52A-XX-12L-000	51	E12A-XX-12K-00107	Ŭ	E12A-XX-12L-00501	
	E41A-XX-12L-00112	E42A-XX-12L-002	86	E43A-XX-12L-00107		E51A-XX-12J-00073	
Ũ	E53A-XX-12K-00147	E53A-XX-13A-000	89	E62A-XX-13D-00232		E72A-XX-13D-00166	
Ĵ	E73A-XX-13A-00028	E83A-XX-13A-001	63	ENR1200-ENR			Ŧ



Via ACTi IP Utility

ACTi IP Utility is a software tool used to find all ACTi products including cameras and ENR servers. Download the latest IP Utility from the link below and install it on your computer. http://www.acti.com/product/detail/Video_Management_System/ACTi_Utility_Suite

Execute this program, and find ENR from the search list, double-click on the **IP address** to open the client browser.

			IP Address / NetMask 1	72.16.26.58 / 255.255.255.0	 Basic Search 	n v	
	Refres	h Device Settin	gs Change Network Ad	Idress Firmware Upgrade	Config. Backup	Config. Restore	Reset Save&Reboot
Total: 59	Account	admin	Password 123456				
	IP Address	MAC Address	FW Version	Model	Serial No.	Multicast IP	Status
	172.16.26.76	00:0F:7C:08:1F:B1	A1D-310-V4.12.09-AC	IP Speed Dome	TCM6630-12C-X	228.5.6.1	
	172.16.26.80	00:0F:7C:08:2F:D0	A1D-310-V4.12.09-AC	Megapixel IP Dome	TCM3111-12C-X	228.5.6.1	
	172.16.26.81	00:0F:7C:00:D8:D0	A1D-220-V3.14.19-AC	Mega IP Dome	ACM3401-07L-X	228.5.6.1	
	172.16.26.82	00:0F:7C:04:35:A7	A1D-310-V4.12.09-AC	Megapixel IP Camera	TCM3511-10C-X	228.5.6.1	
	172.16.26.83	00:0F:7C:05:48:05	A1D-220-V3.13.16-AC	Mega IP Dome	ACM3701-10H-X	224.16.17.6	
	172.16.26.84	00:0F:7C:08:EE:53	A1D-220-V3.14.18-AC	Mega IP Dome	ACM3701-12G-E	228.5.6.1	
	172.16.26.85	00:0F:7C:09:16:57	A1D-311-V5.10.02-AC	Hemispheric Camera	KCM7911-12H-X	228.5.6.1	
	172.16.26.86	00:0F:7C:04:11:25	A1D-310-V4.12.09-AC	Megapixel IP Dome	TCM7411-10B-X	228.5.6.1	
	172.16.26.87	00:0F:7C:04:41:A0	A1D-220-V3.14.18-AC	Mega IP Dome	ACM7411-10C-X	228.5.6.1	
	172.16.26.90	00:0F:7C:07:45:7B	A1D-311-V5.09.09-AC	Megapixel IP Dome	KCM7111-11H-X	228.5.6.1	
	172.16.26.91	00:0F:7C:05:53:55	A1D-310-V4.12.09-AC	IP Cube Camera	TCM4201-10H-X	224.16.17.4	
	172.16.26.93	00:0F:7C:02:A1:51	A1D-220-V3.14.19-AC	Mega IP Cube Camera	ACM4201-09C-X	228.5.6.1	
	172.16.26.96	00:0F:7C:03:F9:BE	A1D-220-V3.14.19-AC	Video Server	ACD2100-10A-X	228.5.6.1	
	172.16.26.97	00:0F:7C:04:87:A7	A1D-310-V4.12.09-AC	Video Server	TCD2100-10D-X	228.5.6.1	
	172.16.26.98	00:0F:7C:03:0B:2A	A1D-310-V4.12.09-AC	Video Server	TCD2500-09K-X	228.5.6.1	
	172.16.26.122	00:0F:7C:09:D8:FF	A1D-500-V6.03.08-NB	3M-BOX	E32	228.5.6.1	
	172.16.26.134	00:0F:7C:08:EE:C1	A1D-500-V6.04.10-AC	Megapixel IP Dome	D51A-02-12H-0	228.5.6.1	
	172.16.26.137	00:0F:7C:09:52:0E	A1D-500-V6.02.03-AC	Megapixel IP Dome	E51A-XX-12J-0	228.5.6.1	
	172.16.26.138	00:0F:7C:09:15:45	A1D-500-V6.03.08-NB	Interior Mini Dome	E52	228.5.6.1	
	172.16.26.139	00:0F:7C:09:95:6C	A1D-500-V6.02.03-AC	Megapixel IP Dome	E53A-XX-12K-0	228.5.6.1	
	172.16.26.170	00:0F:7C:0A:A1:4B	ENR-010-V3.02.01-AC	16 CH Embedded N C END1200	ENR1200-A-13D		

172.16.26.56

00:0F:7C:0A:A1:4B

ENR-010-V4.99.20-AC

16 CH Embedded NVR-ENR1200



Log In / Out of ENR

After you By default, an administrator account has already been existing in your system. To log in to ENR for the first time, you will have to key in the password in **Login** window.

Log In

File Edit View Favorites Tools Help	ー 回 ■ × ク -
	Connect Vision Account admin Password •••••• Anguage English English • B Remember me
Download ActiveX installation package	

Enter Account & Password

- •Account (non case-sensitive): Admin (default)
- Password (case-sensitive): 123456 (default)

Change UI language A

To change UI language, select the desired language from "Language" dropdown list.

Remember Login Information B

To have the server remember your **Account**, **Password** and language setting for future, check "**Remember me**".

Log Out

On Live screen, click "Application" \rightarrow "Logout".

	Application Camera List Hide Toolbar Help About 2013/07/22 18:43:48 Mon
- Camera	Video Title Bar
All Cameras (0)	Un-stretch Video
	Disconnect All Channels
- Event	Decode I-frame
- Event	Logout
	Quit



Accept ActiveX Controls Installation

ENR interface requires the add-on ActiveX Control components, please allow ActiveX controls to be downloaded and installed.

It is strongly recommended that (1) you add this ENR server into <u>Internet Explorer's Trusted</u> <u>Sites</u> and (2) <u>turn off **Windows Firewall**</u> on this client computer.

C S Attp://172.16.26.170/	ウ× 🧔 Connect Vision × 👘 合 ☆ 😳
File Edit View Favorites Tools Help	
ActiveX Control 'nvViewer' Is Downloading, Please Required Activex Control 'nvViewer' Instal Internet Explo Internet Explorer - Security Warning	
Name: nvViewer.dll	bns Install Don't Install
Publisher: ACTi Corporation More gotions Install Don't Install	: files from the Internet can be useful, this file type can potentially harm computer. Only install software from publishers you trust. <u>What's the risk?</u>
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. <u>What's the risk?</u>	
This website wants to install software from: 'ACTi Corporation'. What's the rist	Install ×</th



Setup Wizard

After logging in, if no camera has been added to ENR system, **ENR Setup Wizard** will lead you through three essential installation steps in order that you could quickly get camera live view.

For video recording, please remember to install hard disks and format them in physical ENR device.

You may click the **Done** bubble to skip to the quick setup procedures last step.



And click "Done" to exit Setup Wizard.





Setup the System

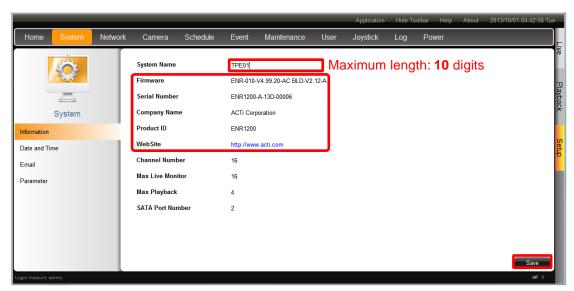
Before adding cameras to the system or starting up the recording and event handling, it is essential to configure certain system-wise settings on **Setup** page.

Set System Name

Go to Setup page → System tab→ Information

_				_	_	Application	Hide Toolbar Help	About 2013/10/01 04:33:2	29 Tue
Home S	stem Network	Camera Schedule	Event Maintenance	User Joys	itick Log	Power			
	System System Information and S	ietting	Network Network Setting	٢	Camera Add / Delete / M Setting	lodify Cameras	C	Schedule Add / Delete / Modify Schedu Setting	lve Playback
	Event Add / Delete / Modify Ever	nts	Maintenance System Maintenance		User Add / Delete / M Group Permissio			Joystick Joystick controller	Setup
	Log View System Log	٩	Power Reboot						l
Login Account: admin								¢	

Modify the name of this ENR server and click "**Save**". The maximum length is 10 digits of English alphabets.



Your ENR's current firmware version, serial number and MAC address are also shown here.



Set Date & Time

Go to Setup page → System tab → Date and Time

You may configure other time-related settings here.

									Application	Hide Toolbar	Help	About	2014/02/06 15:04:29 Thu
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
	Ö		Time Zone		(UTC+08:	00) Asia/Taipei		×					
6			Date and Time		2014/02/0								
	System				Enable	Daylight Saving Time							
Information			NTP Server		watch.std	time.gov.tw		Apply					
Date and Tir	me				Synchr	onize with the NTP se	rver autom	atically					
Email Storage													
Parameter													
											Local	Sync	Date and Time
Login Account: a	dmin												#4-3

Change Time Zone

Select the time zone where ENR server belongs to. After selecting the time zone, it will change to the corresponding date and time.

Change Date and Time

It shows the current date and time on the device. Click **Date and Time** to bring up the calendar. Input the exact date and time, then click **"OK**".

<		Ju	ily 20'	13		>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			
18	•	: 18	3 .	• : 2	24	•

Set Daylight Saving

If the device is located in an area where daylight saving time is used, click the check box to enable daylight saving. The time will be automatically adjusted. When the daylight saving time has finished, uncheck the box to return to original setting.

Set NTP Server

Please enter a NTP server address and click "**Apply**" to synchronize time with the NTP server. Make sure ENR has connection with the NTP Server.

To delete this NTP server, simply clear its address in this field and click "Apply".

Note

If your NTP server is a domain name address, make sure you have configured the **DNS** Setting and chosen appropriate Default Gateway on Setup page \rightarrow System tab \rightarrow Network



Synchronize with Client Computer's Time

Click Local Synce to synchronize the device time with the time on the computer you are using now, please click this button.

Home System Network Camera Schedule Event Maintenance User Joystick Log Power Image: Time Zone [UTC+08:00] Asia/Taipei Image: Time Zone Timage: Time Zone Timage: Time Zone	
	e
Date and Time 2014/02/06 15:04:29	
	Playback
System Enable Daylight Saving Time	ex.
Information NTP Server watch.stdtime.gov.tw Apply	
Date and Time	Setup
Email	
Storage	
Parameter	
Login Account: admin	Time



Configure Network Settings

There are two network interface cards in ENR.

Either of these cards can be supported by the built-in DHCP server feature, which enables ENR to assign IP addresses to cameras via **LAN1** or **LAN2** port without another DHCP on router.

By default, LAN1 card uses a fixed IP address *192.168.0.10*, while LAN2 is in DHCP client mode. It is suggested that you connect LAN1 to LAN and connect LAN2 to WAN.

Current IP Configurations

Go to **Setup** page \rightarrow **Network** tab.

				_		_		Application		Toolbar Help About	2013/09/30 22:58:	14 [
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
			Name			LAN 1				LAN 2		
	- J		Status			Connected				Connected		
			Hardware Add	Iress		00:0F:7C:0A:A	1:32			00:0F:7C:0A:A1:4B		
	\sim		Speed			100 Mbps				100 Mbps		
	Network		Connection Ty	/pe		Manual	•••••	:		DHCP	:	
Information			IP Address			192.168.0.10				172.16.26.56		
			Subnet Mask			255.255.255.0	•••••	••••••		255.255.255.0		
Network Cor	nnection		Gateway			192.168.0.254				172.16.26.253		
DHCP Serve	ər		DNS Setting			Manual				Auto		
HTTP Port			Primary DNS	Server		-				172.16.5.19		
DDNS			Secondary DN	IS Server						172.16.5.20		
DDNS												
											Dife	
											Refre	esh ⊯⊂o

IP Settings

On **Network** tab, click "**Network Connection**" then select the interface card that you wish to set up. After setting up, please click "**Save**" on the bottom right side to save the settings.

								Application	Hide To	olbar He	lp About	2013/09/30 2	23:09:58 Mon
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
Information	Network		192 .	Connection Typ IP A 168 . 0 Subne 55 • . 255 •	ddress . 10 et Mask	<u></u>		LAN 2 Con	nection Ty	pe DHCP	Ţ		
Network Cor			192 .	168 . 0 DNS Settin	. 254 g Manual	~			DNS Setti	ing Auto	•		- Crub
HTTP Port				Primary DNS Secondary DNS	Server								
			L	AN1 Co	nfigu	ration		LA	N2 C	onfi	gurati	ion	
Login Account: a	dmin												Save



Please note that <u>any change you make on this page requires the system to restart its service</u>, please wait for a while and reconnect ENR using the new properties.

Field Name	Description
	The connection port is used for remote web client to communicate with
HTTP Port	ENR. Default is 80.
Default Gateway	Default uses LAN2's setting.
	Choose one connection type for this LAN port. DHCP and PPPoE service
	will assign an IP Address to ENR, and there is no need for you to define
	other network information.
	Manual: Please obtain a static IP address and other network information
	including Subnet Mask, Gateway and DNS server from your network
Connection Type	administrator.
	DHCP : Use this connection type if you have a DHCP server on your
	network router.
	<u>PPPoE</u> : Chose this when your ISP is using PPPoE type DSL line. Please
	contact you ISP to get the Username and Password for this connection.
	LAN1 default is <i>Manual</i> ; LAN2 default is <i>DHCP</i> .
IP Address	Fixed IP Address. LAN1 default is 192.168.0.10; LAN2 default is Auto.
Subnet Mask	Used to define if the destination is in the same subnet. LAN1 default is
	255.255.255.0; LAN2 default is Auto.
Gateway	A valid gateway setting is essential for data transmission between
	different subnets, such as accessing the DNS service or SMTP server
	on the Internet. LAN1 default is 192.168.0.254; LAN2 default is Auto.
DNS Setting	The DNS server that translates domain names to actual IP addresses. If
	this LAN is Manual mode, and you will set an SMTP server for event
	notification, be sure to set the Primary DNS and Secondary DNS. LAN1
	default is <i>Manual</i> ; LAN2 default is <i>Auto</i> .

Enable DHCP Server

You may enable the built-in DHCP server for either LAN1 (default) or LAN2 port.

Go to **Setup** page \rightarrow **Network** tab \rightarrow click "**DHCP Server**".

- 1. Check "Enable" and select a LAN, this LAN has to be in Manual mode.
- Set the Beginning IP Address and Ending Address, and click "Save". ENR will assign IP addresses within this range to the cameras connected to the selected LAN port.
 Please (1) make sure the cameras are in DHCP client mode, (2) connect and power the cameras up <u>after</u> you enable this service.



Home System Network Carnera Schedule Event Maintenance User Joystick Log Power Image: Constraint of the system Image: Constraint of the system </th <th></th>	
Network LAN 1 - Subnet Address 192.168.0.0	
Network LAN 1 - Subnet Address 192.168.0.0	Live
Subnet Address 192.168.0.0	Ľ
Network Subnet Mask 255 255 0	Playback
	ack
Broadcast Address 192.168.0.255	
Beginning IP Address 192 . 168 . 0 . 101	Setup
Ending IP Address 192 . 168 . 200	Ъ
HTTP Port	
DDNS	
Login Acount simin 66 0	

Set HTTP Port

To change the HTTP port of ENR server, go to **Setup** page \rightarrow **Network** tab \rightarrow click "**HTTP Port**". Configure the port number and click "**Save**".

								Application	Hide To	olbar Help	About	2013/09/30 23:23:43 Mon
Home Sy	ystem	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
				HTTF	Port 80							
	work											Playback
Information												ő
Network Connecti	ion											Setup
DHCP Server												
HTTP Port												
DDNS												
Login Account: admin												Save

Enable DDNS Service

ENR has built-in the DDNS update client feature, which saves ENR domain name address information and actively update its ip address to the DDNS provider's server.

1. Visit the dynamic DNS service provider's website and register the domain name for your ENR.

ENR supports the following service providers:

- DynDNS: http://www.dyndns.com
- NO-IP: <u>http://www.noip.com/</u>
- 2. Go to Setup page \rightarrow Network tab \rightarrow click "DDNS".



- **3.** Check "**Enable**", select the service provider, and input the **Host Name**, **User Name** and Password.
- 4. Click "Save" to save the settings.

								Application	Hide To	olbar Help	About	2013/09/30 23:49:54 Mon
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
						Inable						
				Service Pro								
F				Host	Name gun	snroses						Playback
	Network			User 1	lame wen	n.cheng						ack
Information				Pass	word	•••••						
Network Cor	nnection											Setup
DHCP Serve	ər											0
HTTP Port												
DDNS												
Login Account: a	donio											Save



Set E-mail Notification Service

ENR supports e-mail notification for Event Handling. The e-mails are sent through an SMTP server, the settings of which are configured in this section.

Go to **Setup** page \rightarrow **System** tab \rightarrow **Email**.

Please fill up all the fields including **Account** and **Password** to access the e-mail address you input in "**Sender Email**". ENR will send notification e-mail via this SMTP server when an event occurs. For detailed instruction on how to set up an event rule related to SMTP service, please refer to <u>Set Event Rules</u> on page 120.

								Application	Hide To	olbar Help	About	2013/09/30 23:54:24 Mon
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
	Ô		Sender Email		wen.chen	g@acti.com						ē
			Server		smtp.acti	.com						Flayback
	System		Port		25							
Information			Account		wen.chen	g						
Date and Tin	ne		Password		•••••	•••						
Email			Description Set email server	to send mail whe	en an event o	ccurs.						
										Send	Test Mail	Save
												sa∓ 0

Field Name	Description
Sender Email	Input the sender's e-mail address, should the same account you set for SMTP
	server.
Server	Input the sender's SMTP server address. Only alphabets, numbers, and the
	symbols (.), (_), (-) are valid. ENR server supports the SMTP services with
	SSL protocol. If you wish to use a free webmail SMTP service, you may
	choose certain webmail providers such as Yahoo (SMTP:
	smtp.mail.yahoo.com Port:25) or Gmail (SMTP: smtp.gmail.com Port:25 or
	465 for SSL protocol / 587 for TLS protocol)
Port	Set the SMTP port, allowed value is from 1~65535, default is 25.
Account	Input the name of the SMTP server account. The form of account name
	depends on mail server, e.g. a Hotmail account name is a complete e-mail
	address, while other e-mail servers' may be not. Only alphabets, numbers,
	and the symbols (@), (.), (_), (-) are valid.
Password	Input the password of the SMTP server account. Only alphabets and numbers
	are valid.



After configuring, please click "**Save**" to save settings, and click "**Send Test Mail**" to validate this configuration, if this configuration is correct, a test e-mail will be sent to **Sender Email**, please login your SMTP server to check incoming e-mails.

Live Screen Event List Setting

The max number of latest events that can be displayed in event panel. Default is 100.

You can configure this setting on **Setup** page \rightarrow **System** tab \rightarrow **Parameter**.

								Application	Hide T	oolbar Help	About	2013/10/01 00:17:27 Tue
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
	System		Number Of Ev	ents	30							ve Playback
Information Date and Tim	e											Setup
Email Parameter												
Login Account: adr	min											Save



Live Page UI Overview

After logging in, you will enter **Live** screen. **Live** screen is the interface where you see the live views from your cameras. It is where most of the security professionals access the surveillance system



No	Description
Α	View List:
	Lists five View profiles for customization
В	Camera List:
	Lists all the added cameras and their recording status.
С	Event List
	Displays alerts of detected motion, digital inputs and connection status.
D	PTZ Control Panel
	Provides onscreen PTZ controls. This panel is only enabled when a PTZ camera
	channel is selected on live view display area.
Е	Preset Point Panel
	Provides onscreen tour and preset points controls. This panel is only enabled when
	a PTZ camera channel is selected on live view display area.
F	Your current logged on Account name
G	Layout Selection Buttons
	Click to change the current layout
н	Patrol
	Click to start/stop sequence patrol
I	Page Selection
	✓ 2/15 ▶
	Click on the numbers to view a row of available pages: 1 2 3 4 5 6 7 8 9 ▶



J	Share Current View to Local
	Click to start sharing your current view to local screen
Κ	Screen Switch
	Switch to the Setup or Playback page by clicking the tags.
L	Current System Time
М	Toolbar
	Lists available tools for your current page



Set Cameras

ENR remote user interface also allows you to easily configure, add or delete cameras without individually opening the cameras' web configurator.

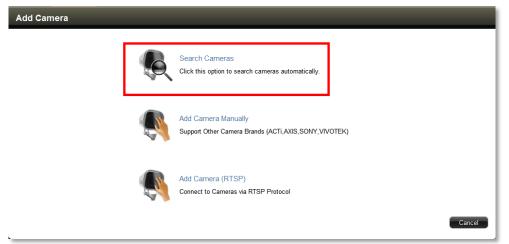
Add Cameras

Go to **Setup** page \rightarrow **Camera** tab.

1. As there is currently no camera existing in ENR system, click "Add" to starting adding the first one.

									Applica	ition Hide Toolbar	Help About	2013/10/01 07:46:4	5 Tue
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
	0		Auto-save	e settings into car	neras upon c	onnection							Live
		1	ID Nan	ıe	E	rand Model	IP Ac	ldress	Channel ID	Encoder	Resolution	Frame Rate	
	1												Playback
	Camera												×
 All Came 	eras (0)												رم ا
													Setup
											_		
										Add	Duplic	ate Delete	
Login Account: a	dmin											హ	0

2. Click "Search Cameras"





Search Cameras Click this option to search cameras automatically. Search Cameras method will list all the cameras connected to your network.

 On Search Cameras windows, input the Account and Password to access the cameras, select the manufacturer and click "Search". After all the connected cameras are found, click the cameras and then "Submit" to add them.

Account	ad	lmin			Password	•		
ACTi	-	Search					81 camera(s)	cund. Supports 2/10
Name	Brand	Model	IP Address	✓ Channel ID	Encoder	Resolution	Frame Rate	Status
Camera-1	ACTi	KCM5211	172.16.26.2	1	MPEG4	1280x720	20	
Camera-1	ACTi	KCM5211	172.16.26.2	2	MJPEG	640x480	30	
Camera-1	ACTi	KCM3911	172.16.26.3	1	MPEG4	2032x1936	5	
Camera-1	ACTi	D52	172.16.26.4	1	H264	1920x1080	15	
Camera-1	ACTi	D52	172.16.26.4	2	H264	1280x720	5	
	ACTi	D52	172.16.26.5	1				Inaccessible
Camera-1	ACTi	E53	172.16.26.6	1	MJPEG	640x480	3	

2. Back on the All Cameras list, the selected cameras are already added into ENR system and started their full-time recording service.

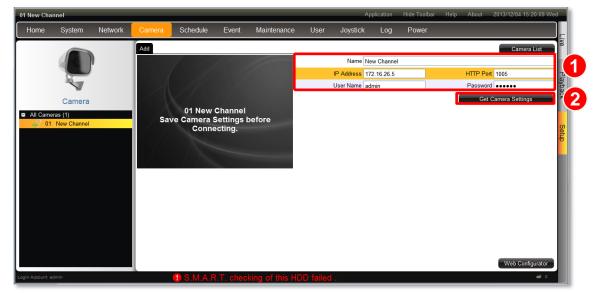
										Applicat	ion Hide Toolbar	Help About	2013/10/01 07:52:23	3 Tue
Home	System	Network	Camera	Schedule	Event	Mainte	enance	User	Joystick	Log	Power			
			🗹 Auto-sa	ve settings into car	neras upon co	nnection								
			ID Na	me	Bi	and	Model	IP Add	ress	Channel ID	Encoder	Resolution	Frame Rate	
			01 AC	Ti	A	CTI	E96	172.16	26.1	2	H264	N640x480	15	
			02 AC	Ti	A	CTi	E53	172.16	26.6	1	H264	N1280x720	5	
	Camera		03 AC	Ti	A	сті	E53	172.16	26.6	2	H264	N1280x720	5	
All Came	eras (16)		04 AC	Ti	A	CTi	TCM3111	172.16	26.11	1	MJPEG	N160x112	18	
	ACTI		05 AC	Ti	A	СТІ	TCM3111	172.16	26.11	2	H264	N1280×1024	4	
<u> </u>	ACTi		06 AC	Ti	A	СТі	TCM7411	172.16	26.15	1	MJPEG	N1280x1024	9	
- X	ACTi ACTi		07 Do	mo1	A	CTi	KCM8211	172.16	26.43	1	MJPEG	N1920x1080	15	
_ <u> </u>	ACTi		08 AC	πi	A	CTi	KCM7311	172.16	26.12	1	H264	N1280x720	10	
<u> </u>	ACTi		09 AC	Ti	A	CTi	D52	172.16	26.45	2	H264	N1280x720	5	
	Domo1		10 AC	Ti	A	СТІ	TCM3411	172.16	26.49	1	H264	N1280x1024	18	
	ACTI ACTI		11 AC	Ti	A	CTi	D52	172.16	26.45	1	MJPEG	N1920x1080	15	
	ACTi		12 AC	Ti	A	сті	TCM7411	172.16	26.15	2	MPEG4	N1280x720	3	
	ACTi		13 AC	π	A	СТі	TCM6630	172.16	26.67	1	H264	N720x480	30	
- <u> </u>	ACTi		14 AC	Ti	A	CTi	TCM6630	172.16	26.67	2	H264	N720x480	30	
	ACTi ACTi		15 AC	π	A	СТі	KCM7111	172.16	26.59	1	MJPEG	N1280x720	30	
	ACTi										Add	Dup	icate Delete	
Account: a	dmin												హ	16





Add Camera Manually Click this option to add camera manually. If the camera is not located within your network segment, you may add it manually.

 Fill in the connection properties such as properties IP Address, Username and Password, HTTP Port, and click "Get Camera Settings".



2. The camera properties including **Firmware** version and **Serial Number** will appear below, you may modify other video configurations and then click "**Save**".

01 New Channel				Application	Hide Toolbar	Help About	2013/12/04 15:21:39 Wed
Home System Network	Camera Schedule I	Event Maintenance	User Joystic	< Log	Power		
Camera All Cameras (1)	Dasic 01 New Ch Save Camera Set Connect	ttings before	IP Address User Name Brand Model Stream Mode Channel ID	ACTi E63 DUAL		Firmware Serial Number Protocol Encoder Frame Rate	Annova Settings Annova Settings E63-A-XX-13C-00071 TCP H264
soin Account agmin	M	otion Detection Settings	Video Adjustme	ent	Web Configura	Bitrate ator C	ancel Save

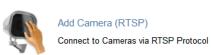
3. Click "Save", the camera's live view will appear.



			_						Application	Hide Toolbar	Help About	2013/12/04 15:23:12 V	/ed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystic	< Log	Power			
			Basic									Camera List	Ve
			01 New Cha	inel 2013/12/	04 15:23:13	2		Name	New Channel				
	P							IP Address	172.16.26.5		HTTP Port	1005	7
	~		and the state		les 1	0.0		User Name	admin		Password	•••••	Playback
	Camera		and a state of the		200						Get C	amera Settings	2
 All Came 	ras (1)		a.		and the second	R RO		Brand	ACTi		Firmware	A1D-500-V6.04.15-AC	1
	New Channel		-					Model	E63		Serial Number	E63-A-XX-13C-00071	g
			All and a start of the start of				SI	ream Mode	DUAL	*	Protocol	TCP	- united
			-		\sim			Channel ID	1	~	Encoder	H264	-
				~>				Resolution	N2592x1944	Ŧ	Frame Rate	15	*
											Max Bitrate	UNLIMITED	-
											Bitrate	4M	+
					Motion Dete	ection Settings	Vid	eo Adjustme	ent	Web Configur	ator Ci	ancel Save	1

Note

ENR will synchronize with devices upon connecting to them. To make sure the settings on ENR side are prior to those on camera sides, please check "**Auto save ENR settings into device upon connection**". When this function is enabled, every modification you make via Camera's web configurator will be overwritten by ENR.



You may connect a camera via RTSP protocol. Via this mouthed, you can add a video stream from any brand camera.

Fill in the properties such as properties **IP Address**, **URI type**, **RTSP Port**, **Protocol type**, **User name**, **Password**, and click "Save".

			Application Hide Tool	bar Help A	About 2014/04/01 17:21:21 Tue
Home System Network	Camera Schedule Eve	ent Maintenance	User Joystick	Log Pov	
Camera ■ All Cameras (1) ■ The Market Mar	Basic 01 N 2014/04/01 17:21:21	IP Address URI RTSP Port User Name Password	7070 admin		Playba



Copy Camera Settings

You may copy an added camera's settings another channel. In this way, it is easier to manually add more than one camera of the same models.

- 1. On All Cameras list, select an existing channel.
- Click "Duplicate", the selected cameras will be duplicated to new channels. In the example shown below, 01 Camera will be copied to a empty channel 07 camera.

All Cameras	5						_	Applica	ation Hide T	oolbar	Help About	2013/1	0/01 23:49:31 Ti
Home	System	Network	Cam	era	Schedule	Event	Maintenance	User	Joystick	Log	Power		
			Au	to-save	settings into c	ameras upon	connection						
		1	ID	Nam	Brand 🔻	Model	IP Address	Channel ID	Encoder		Resolution	Fran	e Rate
			01	Fi	ACTi	E96	172.16.26.85	1	H264		N2048x1536	5	Source
	Camera												
All Came			1		_					_			
■T 01	Fisheye						Are you sure you	want to dupli	cate selecte	d came	eras?		
									ок	Cance			
gin Account: a	admin									Add	Duplic	ate	Delete
								Applig	ation Hide 1	Toolbar	Help About	2013/	10/01 23:52:09 T
Home	System	Network	Cam	era	Schedule	Event	Maintenan	User	Joystick	Log	Power		
			A	ito-save	settings into o	cameras upon	connection						
			ID		Brand -	Model	IP Address	Channel ID	Encoder		Resolution	Fran	ne Rate
			01	Fi	ACTi	E96	172.16.26.85	1	H264		N2048x1536	5	
	1		02	Fi		E96	172.16.26.85	1	H264		N2048x1536	5	New
	Camera			_									
 All Cam 			i										
	Fisheye												
🔤 🝸 02	2 Fisheye												
									1	Add	Dupli	cate	Delete



Delete Cameras

On All Cameras list, select the cameras you wish to delete and click "Delete".

								Applica		orbar	Help About	2013/10/01 23:59:13	2
Home	System	Network	Cam	iera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
			🛛 🖉 Aı	ito-save	settings into c	ameras upon (connection						
		1	ID	Narr	Brand 👻	Model	IP Address	Channel ID	Encoder		Resolution	Frame Rate	
			01	Fi	ACTi	E96	172.16.26.85	1	H264		N2048x1536	5	
			02	Fi	ACTi	E96	172.16.26.85	1	H264		N2048x1536	5	
	Camera		03	A	ACTi	E96	172.16.26.1	2	H264		N640x480	15	
All Came	eras (10)		04	A	ACTi	TCM3111	172.16.26.11	1	H264		N160x112	18	
	Fisheye		05	A	ACTi	KCM7311	172.16.26.12	1	H264		N1280x720	10	
_	Fisheye		06	D	ACTi	KCM8211	172.16.26.43	1	MJPEG		N1920x1080	15	
orr 03 □ 1 03 □ 1 04	ACTi ACTi		07	A	ACTi	D52	172.16.26.45	2	H264		N1280x720	5	
<u> </u>	ACTi		08	A	ACTi	TCM3411	172.16.26.49	2	MJPEG		N640x480	18	
06 🎴	Domo1		09	A	ACTi	TCM3411	172.16.26.49	1	H264		N1280x1024	18	
07			10	A	ACTi	D52	172.16.26.45	1	MJPEG		N1920x1080	15	
80 🐨 🗟	ACTi ACTi												
	ACTi												
										Add	Duplic	ate Delete	
	ıdmin								_				

Change Camera Settings

After the cameras are added, select a camera on **All Cameras** list to configure its individual properties.

01 Fisheye							Applicatio	n Hide To	olbar	Help About	2013/10/02 00:03:09 V	Ved
Home	System	Network	Camera	Schedule	Event	Maintenance	Jser ,	Joystick	Log	Power		
			Basic								Camera List	Ve
			01 Fisheye	2013/10/02 00	:03:10 🔶	Name	e Fisheye					
			15	RETER		IP Address	172.16.26	.85		HTTP Por	80	
				A 12	N.	User Name	admin			Password	•••	Playback
	Camera			TTTT T						Get	Camera Settings	۶ ۲
All Cam	neras (10)		1000	100	11	Press	ACTI		-	Firmward	A1D-500-V6.04.15-A0	
	1 Fisheye		64				E96]		E96A-XX-13H-00023	_
	2 Tisneye					Wide	E 90			Selial Nullibe	E96-A-A-13H-00023	Setup
	3 ACTi 4 ACTi					Stream Mode	DUAL	-	•	Protoco	TCP	•
	5 ACTi					Channel IE	0 1	•		Encode	H264	•
	6 Domo1					Resolution	N2048x1	536 -		Frame Rate	5	•
	7 ACTi 8 ACTi									Max Bitrate	2M	•
	9 ACTi											
- Te 🔤 🔁	0 ACTi											
						Motion Detection	Video Adju	ustment	Web Co	nfigurator	ancel Save	
Login Account:	admin										e ¥ 10	

(A) Video Format and Transmission Properties

To modify the video format and transmission properties including **Stream Mode**, **Channel ID**, **Resolution**, **Protocol**, **Encoder**, **Frame Rate**, and **Bitrate**, you will have to click "**Get Camera Settings**" first to sync with the camera first. After configuration, click "**Save**" to save this setting to camera

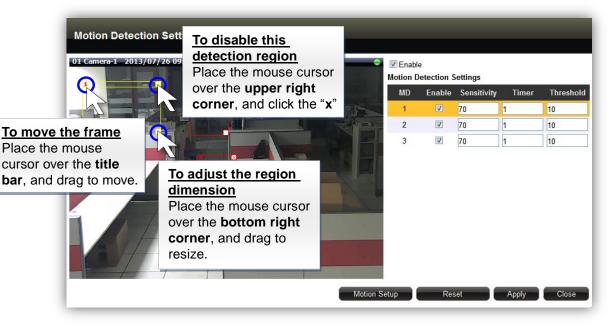


(B) Motion Settings

After selecting the camera from **All Cameras list**, click "**Motion Detection**". If this camera is in dual stream mode, only **Channel ID 1** (Stream 1) supports motion detection feature.



On **Motion Detection Settings** window, check "**Enable**" then click "**Motion Setup**". To enable one motion region, check it, a color frame will appear in the view. You may start setting the detection area by adjusting this yellow frame on the view. Simply use your mouse to move and resize the frame. Click "**Apply**" to save the settings.



Adjustment Attributes

Field Name	Description
Sensitivity(1-100)	Determines how sensitive the camera reacts to the movement. The higher
	the sensitivity level is, the smaller motion will trigger the alarm, but may give
	false alarms. Default is 70.



Timer(0-300	The interval before the next motion detection can be triggered again.
secs)	Default is 1 second.
Threshold (%)	The threshold level of this motion detection region. The lower threshold
	level is, smaller portion of the region would be considered as motions,
	which is more easily to be triggered, but may give more false alarms.

(C) Fine-tune the Image: Brightness/Contrast/Saturation/Hue

Not only details but also brightness, contrast, saturation and hue are essential factors to make images closer to real scene. For devices that support these property configurations, you may directly modify them and save to the device ENR interface.

01 Fisheye							Applica	tion Hide To	olbar I	Help About	2013/10/02 00:06:13 Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power	
			Basic								Camera List
			01 Fisheye	2013/10/02 00	:06:14 🍚	Na	ne Fisheye	e			
			13	APA TEX		IP Addre	ss 172.16.	26.85		HTTP Port	80 2
				<u>A</u> 121	We.	User Nar	ne admin			Password	80 Playback
	Camera				1					Get C	Camera Settings
All Came				R HI	7	Bra	nd ACTi			Firmware	A1D-500-V6.04.15-AC
	Fisheye Fisheye			17 set and		Mo	iel E96			Serial Number	E96A-XX-13H-00023
· · · · · · · · · · · · · · · · · · ·						_			_		
04						Stream Mo				Protocol	
	5 ACTi					Channel	ID 1	7	-	Encoder	H264 👻
	Domo1					Resoluti	on N2048	<1536 ·	-	Frame Rate	5 💌
	ACTI ACTI									Max Bitrate	2M -
) ACTi										
						Motion Detection	Video A	djustment	Web Cor	nfigurator	ancel Save
Login Account: a	admin		<u> </u>				(⊯ ⊈ 10

On **Video Adjustment** window, the fields available for modification (depends on models) will be enabled. Select the desired value for the field, and click "**Apply**".





Video Adjustment Attributes

Field Name	Description
Brightness(1-100)	Defines how much portion of light and of dark appear in the image. As the
	value increases, the image appears brighter, and vice versa.
Contrast(1-100)	Defines the range level between light values and dark values. As the value
	increases, the separation between light and dark becomes more obvious.
Saturation(1-100)	Defines the level of the actual color intensity. As it increases, colors appear
	more pure; as it decreases, colors appear more gray-out.
Hue(1-100)	It is the term used to refer to the pure spectrum colors. Adjust this value to
	find the color closest to the real scene.
Line Frequency	The unction that adjusts the shutter speed options to match the frequency of
(50Hz / 60 Hz)	artificial light source of given country. For example, in Europe the light
(,	frequency (due to power supply frequency of lights) is 50Hz, that is 50
	flashes per second. By setting line frequency to 50Hz in such case, the
	shutter speed options will be proportional with light source frequency, such
	as 1/25s, 1/50s, 1/100s, etc. It is necessary to have the camera's Line
	Frequency adjusted according to the power frequency of the light source to
	avoid flickering effect.



Configure PTZ Preset Points

With PTZ devices, you may define a view by where to look (through panning and tilting) and how close (through zooming) to zoom. Once these views have been saved in ENR as preset points, the device can always point to this view upon the event triggering or user's command.

Go to **Setup** page \rightarrow **Camera** tab, select a PTZ camera from **All Cameras** list, and click **Preset Point**.

01 ACTi		_					App	olication Hide 1	Foolbar Help	About 2	013/10/02	02:48:59 Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log Po	wer		
				set Point Prese						1	Cam	nera List
			01 ACTi 20	13/10/02 02:4			•	ID	Name	Go to	Add	Delete
						-	and the second second	1	Left	-	9	× <u>v</u>
	1							2	Right		2	× Playback
	Camera				-			3	Middle	->	2	×
All Como	the state of the s					1		4			2	×
All Came	ACTi						-	5		*	2	×
	ACTi		1	ileast	1			6			2	× Setup
	ACTi						Î	7			2	×
	ACTi ACTi			1000				8			2	_X_
	ACTi		The set				1	9		<u>→</u>	9	_×_
	ACTi							10			2	×
E 1 1 1 1 1 1 1 1 1 1	ACTi							11		*	2	×
								12			2	×
								13		+	2	×
								14			2	×
								15			2	×
								16			2	×
Login Account: ac	min								- Y m			af 3

1. Define a view:

On mini live window, use the mouse to do the following PTZ operations:

■ To execute optical **Panning** and **Tilting**, click anywhere on the live window to allow the camera to move in that direction. The length of the direction indicator is proportional to the Pan and Tilt speed. The farther you place the cursor from the center, the faster the Pan/Tilt movement.

■ To execute optical **Zoom in** or **Zoom out**, scroll the mouse wheel forward to zoom in; scroll the mouse wheel backward to zoom out.





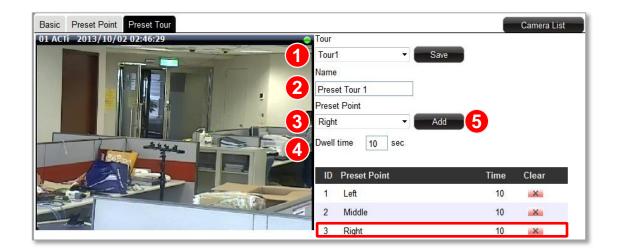
ID 1	Name Left	Go to ➡	Add	Delete	2. Save to a Preset Point
2	Right	3	2	×	On Preset Point list, select an ID, input the point name
3	Middle	U	9	×	
4		→	9	×	and click
5		→	9	×	
6		→	9	×	
7		->	1	×	After a point is saved, click 🗾 next to its name to go
8		→	2	×	to this point
9		→	9	×	to this point.
10		→	9	×	
11		->	9	×	
12		→	9	×	To delete this point, click
13		→	9	×	
14		→	2	×	
15		→	2	×	
16		→	2	×	
_		_	_	_	
		1/2			

Configure PTZ Preset Tour

Preset Tour is a preconfigured PTZ sequence that directs the camera to cycle through multiple preset points, including where to look and how long to look at each location. With this preset tour, your PTZ device can perform an automatic patrol to scan through your cared areas.

Before setting up Preset Tours, please make sure you have configured PTZ settings and set PTZ Preset Points. To start:

- Go to Setup page → Camera tab, select a PTZ camera from All Cameras list, and click Preset Tour.
- 2. Select a tour from Tour1~Tour32, input its Name, pick a preset point, define its Dwell time and click "Add", this preset point will be added to the tour. Continue to add other preset points in your desired movement sequence and click "Save". After a tour is saved, it is available on Live page → Preset Point control panel.



Configure Fisheye Cameras

With hemispherical lenses, fisheye cameras generate images at up to 360-degree width, which can cover all four corners of a room or both sides of a long aisle. As the original image captured by wide-angle lens is much distorted, to suit most monitoring purposes, the **Dewarping** process is required to alter the uneven lines and shapes before the images are displayed. Nowadays, the fisheye cameras come in two types in terms of the image-correction capability:

• Fisheye Cameras *with* in-camera dewarping function

The dewarping takes places in camera before the video is output to NVR server. Since the image correction counts on the camera itself, NVR server will not bear much extra loading, which benefits the system requiring many of these fisheye cameras (e.g. ACTi KCM-3911, KCM-7911)

• Fisheye Cameras *without* dewarping function

These fisheye cameras output only original global images, relying on software algorithm processing provided by NVR sever to correct the images. They are suitable for a system with limited bandwidth, for NVR server processes and responds to User's ePTZ manipulation or demands for changing view modes immediately, without waiting for camera side to deliver a new frame (e.g. ACTi E96).

ENR's software algorithm can perfectly corrects the original fisheye images, generating 6
specific fisheye view modes from User's usual perspective. As a remote client, you may
Select a desired fisheye view mode on Live screen and manipulate virtualized ePTZ

operation with onscreen controls.

• Export the video clip of your desired fisheye view mode.

To make use of ENR's dewarping features for your fisheye cameras, please

1. Adjust Video Quality Settings

After the fisheye camera is successfully added, go to **Setup** page \rightarrow **Cameras** tab, select the device and then click "**Get Camera Settings**", make sure you set the **Stream Mode** as "**FISHEYE**" for a hemispheric camera (KCM-3911, KCM-7911). This is to make sure this hemispheric camera is outputting fisheye original video stream as a mini fisheye dome camera does.

2. Adjust Fisheye Display Settings

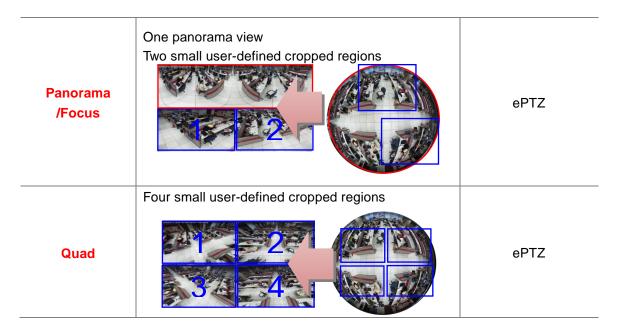
Select your **Mounting Type**, and then **Default Fisheye Mode**. For a fisheye mode containing panorama view, you may want to configure the **Default Rotate X** (width of view) and **Default Rotate Y** (height of view) configurations.



	-		_		_						Toolbar Help About	2013/12/04 16:22:28 Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
	0		Basic									Camera List
			01 Fisheye	Overview 2013/	12/04 16:2	2:29	-		Name	Fisheye Overview		
			515	CE			10	IP	Address	172.16.26.85	HTTP Port	80
	~						H.	U	ser Name	Admin	Password	eee
	Camera		100		i t-t-		TES. 1				Get C	amera Settings
All Cam				1.0	-	THE REAL	1		Brand	ACTI	Firmware	A1D-500-V6.04.15-AC
	Fisheye Overvie	w		216					Model	E96	Serial Number	E96A-XX-13H-00023
	Storage Room GNR3000			1 2			3 mg	Stre	am Mode	DUAL	 Protocol 	TCP -
	GNR3000 GNR3000		Sign	YE			-	С	nannel ID	2	 Encoder 	H264 -
o 📬 🔤	5 E43			-1 ++++++++++++++++++++++++++++++++++++				R	esolution	N640x480	✓ Frame Rate	5 -
\sim	E63		-	P- WAR	1	The art	-				Max Bitrate	
	GNR3000 GNR3000										Bitrate	зм 👻
	ACTi						Fi	sheye Display	Setting :			
i 🔤 🝸 12	2 GNR3000							Moun	ting Type	WALL	 Default Rotate X 	1.0 👻
	8 7F West Wing							Default Fishe	ye Mode	PanoramaFocus	▼ Default Rotate Y	1.0 -
	7F East Wing GNR3000								V ,	Absolute PTZ		
	GNK3000				_		-					
						Motion Detection S	ettings	Video	Adjustmer	nt Web	Configurator	incel Save
	admin			S.M.A.R		king of this HI						ef 13

Fisheye Mode	Description	PTZ Navigation
Original View	The very raw fisheye view	Digital PTZ
Dewarping	One large user-defined cropped area	ePTZ
Panorama	360-degree panorama view for ceiling mount 180-degree panorama view for wall mount	Digital PTZ
Double Panorama	Two 180-degree panorama views	Digital PTZ





After the configuration is done, remember to click "Save" to save the settings.

Note

- **1.** Local Live and Playback can only display the original video stream output from a fisheye camera.
- 2. Whichever fisheye view mode you are watching on remote interface, ENR will record the original video stream output from a fisheye camera; however, you may export the video in any desired view mode.



Set Recording Schedule

For the recording schedule, ENR supports **Schedule recording**, **Event recording** and **Event Speed-up Recording** modes, which are set up on a week-based timetable; the event-handling schedule is configured here.

On ENR, you can configure camera's recording schedule on 7 days / 24 hours basis. The schedule is split into segments of one-hour-length. By default, once a device is added to the system, its schedule is automatically set to full-time schedule recording and event handling. You should configure it according to your system plan.

Go to **Setup** page \rightarrow **Schedule** tab, and select a camera to configure its recording schedule.

01 ACTi	Custom	Maturali		C-k-dula	Friend	Maintan				de Toolbar	· ·		2013/10/02	03:08:23 Wed
Home	System	Network	Camera	Schedule	Event	Mainten	ance	User	Joystick	Log	Power			
	0000		Pre-Event Bu	uffer(sec) 10	Post-Ev	ent Buffer(sec) 30							C
			Recording S	chedule 🍳 📕	Full-Time R	ecording 🔘	Even	nt Recording	g 🔘 🔜 E	vent Speed	Up Recordir	ng 🔘 📃	No Reco	rding
				0 1	23	4 5 6	78	9 10	11 12	13 14	15 16 1	7 18 1	9 20 2	21 22 23
			Mon											
			Tue											
	Schedule		Wed											
All Came			Thu											
REC 😸 01			Fri											
	ACTi ACTi		Sat	_										
	ACTi		Sun											
o5 🗟 🔤	ACTi		Event Handli	ng Schedule		landling 🔘 4 5 6	7 8	vent Handli 9 10	•	12 14	15 16 1	7 10 1	0 20 7	21 22 23
e 06			Mon		2 3	4 5 0	1 0	3 10	11 12	13 14	13 10 11	10 1	5 20 2	1 22 2J
■			Tue											
EE 1 08	ACTI		Wed											
			Thu											
			Fri											
			Sat											
			Sun											
													0.001	Save
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Login Account: a	dmin													a¥-8

Event-Recording File Length

Before setting the recording schedule, you may define the length of an event recording. To do this, configure the following properties shown as below, which will make an event recording as long as 10+30 second:

Pre-Event Buffer(sec)	10	Post-Event Buffer(sec)	30	l
-----------------------	----	------------------------	----	---



Field	Description				
Pre-event Recording	ENR keeps a short cache of video received from devices. If an event				
Buffer (sec):	is triggered, ENR will automatically store the pre-event buffer along				
	with the recording of the event itself.				
Post-event Recording	This will determine how long after the event is triggered should be				
Buffer (sec):	included in the event recording file.				

Set the Recording Schedule

1. Select a recording type.

Recording Schedule 🔘 📕	Full-Time Recording 💿 🔜 Event Recording 💿 🔜 Event Speed Up Recording
Field	Description
Full-Time Recording	Continuously record at the video frame rate you define in Camera
	Settings.
Event Recording	Only events are recorded, at the video frame rate you define in
	Camera Settings.
Event Speed Up	Continuously record everything at 1FPS, when an event occurs, the
Recording	frame rate will switch to the value you define in Camera Settings,
	and automatically switch back to 1FPS after the event ends.

2. On the recording schedule time table, click and drag to set time period.

Recording Schedul	e 🔘 🛛	F	ull-Tin	ne Re	cordin	g 🔘		Even	t Reco	ording	۲	E	vent	Spee	d Up	Reco	rding	\bigcirc	N	lo Rec	ording	9		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon																								
Tue																								
Wed						• >>																		
Thu																								
Fri						06:00																		
Sat																								
Sun																								

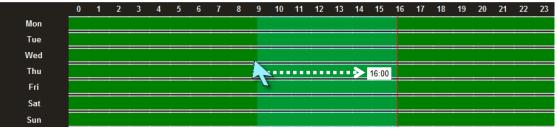
- 3. Click "Save"
- 4. To delete the recording configuration, select
 No Recording and drag on the desired section on time table.

Set the Event Handling Schedule

The **Event Schedule** defines when the event handling is activated. To set the event rules, please refer to <u>Set Event Rules</u> on page 120. By default, the event handling is full-time activated; you may disable it for a certain period.



Event Handling Schedule 🔘 📕 Event Handling 💿 📰 No Event Handling

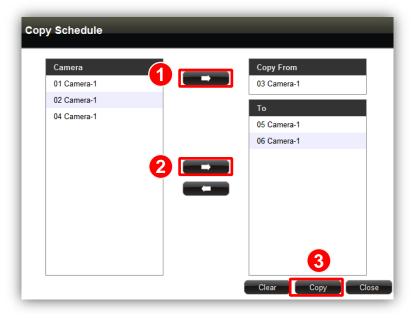


- 1. Click

 No Event Handling
- 2. Drag over the Event Handling Schedule time track to disable the event handling service.
- 3. Click "Save".

Copy Schedule

You may copy a camera's schedule setting to other multiple cameras. This saves much your time on configuring the schedules camera by camera. On the bottom of this page, click "**Copy**" to bring up **Copy Schedule** window.



Select one camera as the source of schedule, and add other cameras to the "**To**" field. Click "**Copy**" to commit changes.



Event Management

ENR can react to events occurring on the storage disk and camera site based on the rules you set here.

Set Event Rules

Go to **Setup** page \rightarrow **Event** tab, and select **a camera** or **System** to set Event rules.

All Cameras								Application	Hide I	oolbar Help	About 2013/10	02 03:33:08 VVed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
			Show warn	ng messages wh	ien system ev	ent occurs.						
			Event		Response							
		/	Hard Disk								Set	Clear
	-											Clear
	Event R1200 System	Event	A									
All Came		Lvent										
🎫 😸 01	ACTi											
	ACTI											
	ACTi ACTi											
	ACTi		B									
06												
■■ ● 07 ■■ ● 07 ■■ ● 08	ACTI											
	Acti		í l									
								Сору	_	lear All	Clear This	Save
gin Account: ac								Coby			Clear IIIIs	Save # 8



A Set System Event rule

Whenever any hard disk goes into abnormal status, ENR will trigger a response based on the rule you set.

1. Click "Set" to enter the rule content.

Event	Response		
Hard Disk		Set	Clear

2. Select your desired response type, configure the properties and then click "OK" to save this rules. There are two types of response for a system event: **Beep** and **Send Mail**.



ENR1200 System	i Event		
Beep After Duration:Second(s) Times	13	Camera	1 Fisheye Overview *
Go to Preset Camera Go to Preset After Duration: Second(s) Then Go to preset	8 GNR3000 × 1 × 5 1 ×	Arrigger DO Camera DO After Duration: Second(s) Then DO	8 GNR3000 * DO1 On, DO2 On * 30 DO1 On, DO2 On *
Send Mail To Subject Body	ENR System Event- Event: Hard Disk ENR System Event Event: Hard Disk Server: ENR1	Enlarge on Local Display Camera Duration:Second(s)	1 Fisheye Overview 👻 5
Attach a Snapshot	Don't Attach Snapshot		OK Cancel

B Set Camera Event rule

Whenever any encounter certain events (including detected motions, detected DI triggers, network loss and network recovery) ENR will trigger a response based on the rule you set.

1. Select a camera and then click "**Set**" of your desired event type.

01 ACTI					_		_	Application	Hide T	oolbar Help	About 20	13/10/02 03:38:19 Wed	
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
			[.ive
			Event		Response	e							
	•/		Motion 1								Set	Clear	Ð
	-		Motion 2								Set	Clear	lavb
			Motion 3								Set	Clear	Playback
	Event R1200 System I	Svant	DI 1 On								Set	Clear	
 All Came 		_vent	DI 2 On								Set	Clear	
REC 👼 01	ACTi		Network Los	s							Set	Clear	Setup
	ACTi		Network Rec	covery							Set	Clear	p
	ACTi ACTi												
	ACTi												
E 06													
■ 07 ■ 07 ■ 08													
™ ¶ 00	ACT												
								Conv	C	ear All	Clear This		
								Сору		ear Air	Clear This		
Login Account: ac	dmin											# #-8	



2. Select your desired response type, set the details and click "OK" to save the rules.

Fisheye Overview			
Keep After Duration: Second(s) Times	3	Popup Instant Playback Camera	1 Fisheye Overview *
Go to Preset	8 GNR3000 ~	Trigger DO Camera DO	8 GNR3000 *
After Duration:Second(s) Then Go to preset	1 * 5 1	After Duration:Second(s) Then DO	D01 On, D02 On * 30 D01 On, D02 On *
□ Send Mail To <u>\$</u> ⁺		Camera	1 Fisheye Overview *
Subject Body	Camera: 1 Fisheye Overview - Event: Motion1	()	
	Camera: 1 Fisheye Overview Channel ID: 2 Event: Motion1 Server: ENR1		
Attach a Snapshot	Don't Attach Snapshot 👻		OK Cancel

To delete a certain response, simply de-select it from the response window, and then click "**OK**".

- 02 ACTI Home Network Camera Schedule Maintenance Joystick Power System Event Resp Motion 1 Set Clear Motion 2 Beep Set Clear Motion 3 Beep Clea Event DI 1 On Beep Clea Set ENR1200 System Event DI 2 On Clea Set ras (8) Network Loss 01 ACTi Clear Network Recovery Clear ACT 07 ACTi Copy Clear All Clear This Save
- 3. After all the rules are set, click "Save" on Event tab to save all settings.



Response Types

ENR supports the following reaction types:

•Popup Instant Playback

ENR will pop up a small window on Live screen to play the 10-second period ahead of event.

You will choose a specific camera whose recording is to be played.

🔽 🏬 Popup Instant Playback	
Camera	1 Fisheye Overview 🔻

Go to Preset

For the use of PTZ cameras to make movements toward certain triggers, please configure the preset points (refer to <u>Configure PTZ Preset Points</u> on page 112) before you set the event rule. You have to select which PTZ camera to make the movement, then the preset points and duration time between them.

🗵 🚺 Go to Preset	
Camera	13 7F West Wing 🔹
Go to Preset	1 🔹
After Duration:Second(s)	5
Then Go to preset	3 -

●Веер

ENR device can play beep sound upon being triggered by events. Input the duration time and prepeat times of the beep.

🖉 🎼 Веер	
After Duration: Second(s)	1
Times	3

•Trigger DO

Set the DO to become **ON** or **OFF** upon trigger, only the devices supporting DO functions are available. Select the device whose connected DO(s) will be triggered. You may select one DO to be activated after the other and the duration time between them.

🖉 Trigger DO		
Camera	14 7F East Wing	•
DO	DO1 On, DO2 On	•
After Duration:Second(s)	30	
Then DO	DO1 Off, DO2 Off	•



Send Mail

The response enables ENR to send e-mail notifications via SMTP service. Fill in the mail recipient's e-mail address in "**To**" field, notification title in "**Subject**" field and mail body in "**Body**" field, then choose a camera whose snapshot will be attached from **Attach a Snapshot** dropdown list.

To enable this service, you have to configure the SMTP settings (please refer to <u>Set E-mail</u> <u>Notification Service</u> on page 99) beforehand.

🔽 🗾 Send Mail	
То	Wen.cheng@acti.com
Subject	Camera: 1 Fisheye Overview - Event: Motion1
Body	Camera: 1 Fisheye Overview Channel ID: 2 Event: Motion1 Server: ENR1
Attach a Snapshot	1 Fisheye Overview 👻

•Enlarge

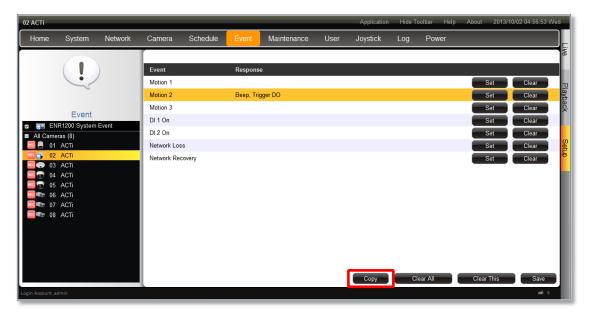
Local Live screen will display certain channel view in full screen for a while when the system is triggered. Select the camera whose live view will be enlarged on **Live** screen and the duration time.

Enlarge on Local Display	
Camera	1 Fisheye Overview 🔻
Duration: Second(s)	5



Copy Event Rules

You may copy a camera's event rules to other multiple cameras. This saves much your time on setting up rules one by one. On **Event** tab, click "**Copy**"



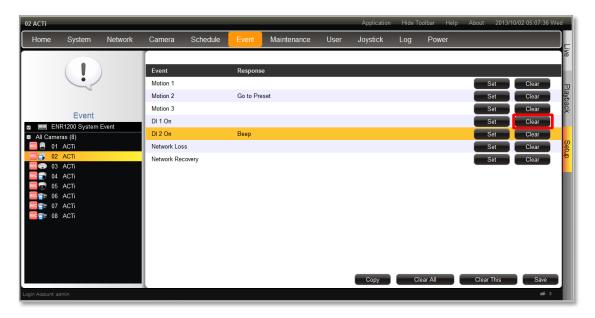
Select one camera as the source of schedule, and add other cameras to the "**To**" field. Click "**Copy**" to commit changes.

Сор	y Event		
COP	Camera 02 Storage Room 1 06 E43 07 E63 11 ACTi		Copy From 01 Fisheye Overview To 13 7F West Wing 14 7F East Wing
		(Clear Copy Close



Clear Event Rules

On **Event** tab, you may select an event rule under certain camera, and click "**Clear**" to delete it.



To directly clear all event rules set under a certain camera, click "Clear This".

You may also clear all the rules in ENR system by clicking "Clear All".

2 ACTI					_			Application	Hide T	oolbar Help	About 201	13/10/02 05:07:36	6 Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
			[
)	Event		Respons	e							
		/	Motion 1								Set	Clear	
	-		Motion 2		Go to Pre	set					Set	Clear	
	Event		Motion 3								Set	Clear	
EN EN	Event R1200 System	Event	DI 1 On								Set	Clear	
All Came		Lvent	DI 2 On		Beep						Set	Clear	
o1 👵 🔤	ACTi		Network Los	ss							Set	Clear	
02			Network Re	covery							Set	Clear	
	ACTi ACTi												
	ACTi												
	ACTi												
	ACTi												
e 📬 08	ACTI												
								Сору	C	lear All	Clear This	Save	

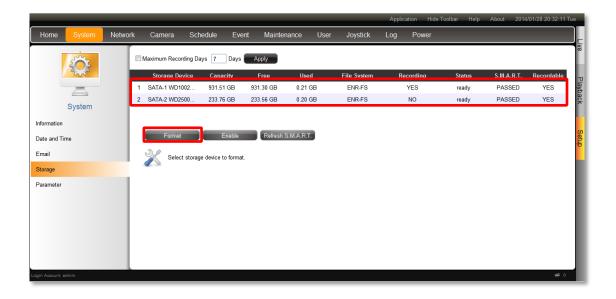
Please remember to click "Save" after deleting any rule.



Disk Management

ENR keeps the recordings on SATA hard disks installed in it. Whenever recording is taking place, ENR writes data to one of the disks, and switch to the other as the original one is full. Once the available space of the whole system is less than the reserved size, ENR will start deleting the oldest file to make the amount of space allowing each active channel to record for another 10 minutes.

You may observe the disk memory and recording status on **Storage** page. Go to **Setup** page \rightarrow **System** tab \rightarrow **Storage**. The connected storage devices will be shown in the **Storage Device** list.



Format Hard Disks

Select a disk and click "Format".

You may execute disk formatting toward a newly-installed disk. You should follow the installation procedures (refer to <u>Install the Hard Disks</u> on page 22) to format the disks before ENR system start carrying out the surveillance task, for a disk that is not in ENR file system format is not ready for recording. Please note that the system will stop recording during the disk formation.

If you have to format a disk having been recording for a while, it is suggested that you export important video and system log in advance.



Set Maximum Recording Days

ENR can keep recording files for a certain number of days defined by you. Set this rule if you have more concern about how long the recordings are kept, especially when you do not want the old recordings to stay longer in the system than a certain period. By default, this rule is not activated, to modify it, check the box to input a number between **1~999** and click "**Apply**".

For more deletion rules explanation, please refer to Storage Settings - Set Recording Deletion Rule on page 61.

Check Disk Status

Hard disk failure often comes after detectable signs and thus can be predicable, thus it is important to detect these signs long before they really cause disk failures.

ENR performs **S.M.A.R.T**. Disk check on 24-hour basis since last check. This technology enables a system to monitor the disk status and anticipate disk failures, helping the system administrator to prevent from unexpected outage and data loss.

You may manually perform an instant S.M.A.R.T check by clicking "Refresh".

Once the **S.M.A.R.T** status of disk appears "**WARNING**", "**FAILED**", or "**UNKNOWN**" instead of "**PASSED**", it is not reliable for recording, and may fail when the number of bad sectors on the disk has grown high enough. Please

- Click "Disable" next to Recordable status to stop the system from saving recording into it.
- 2. Immediately export important video and system log, and then replace the disk following the instructions <u>Manage Abnormal Disks</u> on page 63.

						Application Hide Too	lbar Help .	About 2013/10/	02 05:30:27 Wed
Home System Netv	work Camera So	chedule Event	Maintenan	ce User	Joystick L	.og Power			
	Maximum Recordin		ys Apply						
922	Storage Device	e Capacity	Free	Used	File System	Recording	Status	S.M.A.R.T.	Recordable YES
Maintenance	1 SATA-1 WD6400.			581.32 GB	ENR-FS	YES	ready	PASSED	
Storage	2 SATA-2 WD6400.	593.06 GB	550.79 GB	42.27 GB	ENR-FS	NO	ready	DETECTING	NO
Firmware Upgrade Settings Backup/Restore Troubleshooting Language Adjustment	Format	Enable levice to format.	Refresh S.M.A	RT					



Upgrade Firmware

You may check ACTi corporate website for latest ENR firmware package and download it. Unzip the package and save the ***.upg** file to your client computer.

- 1. Make sure there is a recordable hard disk installed in ENR or a USB disk with at least 200MB space connected to ENR.
- Go to Setup page → Maintenance tab→ Firmware Upgrade. Click "Browse", find the target *.upg file and click "Open".
- 2013/10/02 05-44-34 ' Home System Network Camera Schedule Event Joystick Power File Name ENR-010-V3.02.02-AC.upg Browse... Select file(*.upg) to upgrade system Maintenance Storage Firmware Upgrade Settings Backup/Restore Troubleshooting Language Adjustment Update
- 3. Click "Upgrade".

During upgrading, the system will stop every other activity including recording and event handling. The system will auto-restart after the upgrading completes.

As upgrading has started, **DO NOT cut off the system power or eject the USB disk until ENR restarts**.

Backup / Restore Settings

Making regular system backups is always recommended in case of unexpected disasters or accidents that may damage ENR server.

ENR server can create a backup file of the whole system settings as Backup_[yyyymmdd].nvr file and save it to your client computer within one click. The backed up settings include the following properties: (1) System Settings including System Name, Date & Time, Network, Email, Mouse and Keyboard, (2) Camera Settings, (3) Schedule Settings, and (4) Event Management.

Backup

To start backing up system setting, please insert a USB disk into ENR first.

1. Go to Setup page \rightarrow Maintenance tab \rightarrow Settings Backup / Restore.

Home S	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power	
	*3		Name					irowse			e
Maint	tenance	X	Select file(*.nvr) to restore se	ettings.						Playback
Storage											
Firmware Upgrad	de										Setup
Settings Backup	/Restore										Ĺ
Troubleshooting											
Language Adjust	tment										
											_
										Backup	Restore
Login Account: admin											16 4 8

2. Click "Backup", the backup file will be saved to your client computer as .nvr file.

•]	Cancel	×	
	•	 Cancel 	▼ Cancel ×



Restore

Before starting restoring the system, make sure you have connected the USB disk with the desired .nvr backup file in it, and the backup file is saved in the root directory.

1. Go to Setup page → Maintenance tab→ Settings Backup / Restore.

							Application	Hide To	oolbar Help	About	2013/10/02 06:15:50 Wed
Home System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
Maintenance	, 2		up_20130907.nvr *.nvr) to restore se	ettings.			Browse				Playback
Storage Firmware Upgrade Settings Backup/Restore Troubleshooting											en e
Language Adjustment											
Login Account: admin									Ba	ickup	Restore

- 2. Click "Browse", find the target *.nvr file and click "Open".
- 3. Click "Restore" to start restoring the settings.



User Group Management

In ENR, the access permissions are managed by **User Groups**. **User Groups** defines what functions are allowed for a group of users. Different **User Groups** will have different access rights in terms of permitted operations like monitoring **Live** screen or execute **Playback**. For example, an Administrator user is allowed for all the operations in ENR, while a standard normal user may only be permitted to do **Live** monitoring.

Go to **Setup** page \rightarrow **User** tab.

Add a Group

By default, the **Administrator** User Group with full permissions in ENR already exists. Except for the password and e-mail settings, you may not delete this account or change its permissions.

1. Enter Group , click "Add Group" to bring up Add New Group window, enter the Name and Description of the group, and click "OK" to add it to the Group List.

								Application	Hide Te	oolbar Help	About 201	3/10/02 06:18:25 Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
		Na	ime	Descriptio	n							ve
	EJKK	Ad	ministrator	Full permis	sion and sys	stem control					Edit	
										_		Play
6				Add Nev	v Grou	ID .				-		Playback
	User	_				•						
Group				Name		Mana	ger					ល
User							5			·		Setup
Permission				Description	ı	Full P	ermissio	ıs				
												_
												_
								ок	Cano	el		_
							_					
									Ado	Group	Add User	Save
Login Account: ac	dmin											6 € 8

2. Enter **Permission**, and select the group from Group list, enable the permissions possessed by this group.



		_							Application	Hide To	oolbar Help	About	2013/10/02 06:20:45 W	/ed
Home	System	Netwo	rk	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
			Group		Manager		•							ive
	C JAR			Applicatio	n									
The second se			\checkmark	Live										면
L			V	Playback										Playback
	User		V	Setup										운
Group			V	Remote										
User														Setup
Permission														đ
		_												
										Add	Group	Add U	ser Save	
Login Account: ad	Imin												# #-8	

3. Click "**Save**" to save the group settings.

Edit / Delete a Group

You may edit an existing Group or delete it. Select the user on **Group List**, click "**Edit**" or **Delete**". Please always click "**Save**" before leaving this page.

Name	Description	
Administrator	Full permission and system control	Edit
Manager	Full Control	Edit Delete



Add a User

By default, the **Administrator** User already exists, which you may not delete. Go to **Setup** page \rightarrow **User** tab.

 Enter User , click "Add User" to bring up Add New User window, enter the Name and Password, and select its User Group, click "OK" to add it to the User List.

Home Syste	m Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
User	N	lame dmin	Group New User	En	nail Nick Fadden					Edit	Live Playback
Group User		Passw	rord		•••••						Setup
Permission		Confir	m Password		•••••						^o
		Email		[Nick.F@acti.com						
		User G	Group		Manager		•				
					O		Cancel				
Login Account: admin		_						Add	Group	dd User	Save ≇ 8

Account /Password Rules

- Account field allows alphabets, numbers, and symbols except the following: * < > ? | " \:. The maximum length of characters is 15.
- **2. Password** field allows alphabets, numbers and symbols. The maximum length of characters is 40.
- 3. Both the Account and Password field are non-case-sensitive.

Edit / Delete a User

You may edit an existing user or delete it. Select the user on **User List**, click "**Edit**" or **Delete**". Please always click "**Save**" before leaving this page.

Name	Group	Email	
admin	Administrator		Edit
Nick Fadden	Manager	Nick.F@acti.com	Edit Delete



Joystick

ENR supports two types of controller for remote client operations:

- IP Desktop, manufactured by CH Products
- Extreme[™] 3D Pro, manufactured by Logitech
 - 1. Connect the joystick to your client computer, and install its driver.
 - **2.** Log in to ENR, and go to **Setup** page \rightarrow **Joystick** tab.

Home System Network Camera Schedule Event Maintenance User Joystick Log Power Joystick Joystick Joystick Log Power 1 © © 0	Ir					Application	Hide Tool	lbar Help Abo	out 2013/10/02 06:02:31 W	eu
Joystick 1 Go to Preset 1 - Joystick 2 Go to Preset 2 - Logdech 3 Go to Preset 3 - IP Desktop 0 0 0 0 0 0 0 0 0 0 0 1 Go to Preset 3 - 4 Go to Preset 4 - 5 Go to Preset 6 - 7 Go to Preset 8 - 9 Go to Preset 9 - 10 Go to Preset 10 - 11 Go to Preset 11 -	Home System Networ	k Camera Schedule	Event	Maintenance	User	Joystick	Log	Power		
Reset Save	Logitech		om In I	3 4 5 6 7 8 9 10 11	Go to Go to Go to Go to Go to Go to Go to Go to Go to Go to	Preset 1 Preset 2 Preset 3 Preset 4 Preset 5 Preset 6 Preset 7 Preset 7 Preset 8 Preset 9 Preset 10 Preset 11	• • • • • • • • • •		Reset	Playback

3. There are 12 buttons available on each controller; you may assign a function selected from dropdown list to any button. Every time you change the settings on this page, please click "Save" to save the settings of this joystick model.

DO1 On	
DO1 Off	
DO2 On	
DO2 Off	
Audio In On	
Audio In Off	
Audio Out On	
Audio Out Off	
Snapshot	=
Reconnect	
Manual Record	
Next Page	
Previous Page	
Next Channel	
Previous Channel	
Next Event	
Previous Event	-
Video Title Bar	
Stretch Video	
Double Click	
Stop	
Go to Preset 1	
Go to Preset 2	
Go to Preset 3	
Go to Preset 4	
Go to Preset 5	
Go to Preset 6	
Go to Preset 7	
Go to Preset 8	
Go to Preset 9	Ŧ



System Log

ENR records the important system activities and user's behaviors in **System Log**. Once the number of logs exceed 3000, ENR will erase the earliest 100 logs.

Go to **Setup** page \rightarrow Log tab.

								Applic	ation Hid	e Toolbar	Help About	2013/10/0)2 05:50:27 Wed
Home	System	Network C	amera So	chedule	Event	Maintena	ince	User	Joystick	Log	Power		
1		Se	ow All Days lect Single Day 13/10/01	1			I F	System Remote .ocal	0				
		ID	Date		Account	So	ource	Descriptio	'n				
	Log	1	2013/10/01	22:54:52	admin	Re	mote	User login					
	5	2	2013/10/01	08:10:07	admin	Re	mote	Camera 1 i	is deleted				
		3	2013/10/01	08:04:21	admin	Re	mote	Camera 1 i	is added				
		4	2013/10/01	08:03:24	admin	Re	mote	Camera 15	is deleted				
		5	2013/10/01	08:03:24	admin	Re	mote	Camera 14	is deleted				
		6	2013/10/01	08:03:24	admin	Re	mote	Camera 13	is deleted				
		7	2013/10/01	08:03:24	admin	Re	mote	Camera 12	is deleted				
		8	2013/10/01	08:03:24	admin	Re	mote	Camera 11	is deleted				
		9	2013/10/01	08:03:24	admin	Re	mote	Camera 10	is deleted				
		10	2013/10/01	08:03:24	admin	Re	mote	Camera 9 i	is deleted				
		11	2013/10/01	08:03:24	admin	Re	mote	Camera 8 i	is deleted				
		12	2013/10/01	08:03:24	admin	Re	mote	Camera 7 i	is deleted				
												Export	Refresh
gin Account: ac	dmin												e £ 8

1. Define the time range:

You may choose "Show All Days" to show all the logs or choose "Select Single Day"

then click Date button 2013/09/07

to define a specific date.

2. Select Log types:

Log Types	Event					
System	System start up, format storage					
	Login & logout, add camera, reboot / shutdown system,					
Local User	modify event settings, upgrade firmware , format storage, backup / restore system					
Behaviors	configuration, modify schedule settings, modify time, modify e-mail server					
DendVIOIS	settings, modify system information, modify network settings, modify user &					
	permissions, import language file					
	Login & logout, reboot / shutdown system,					
Derecto	modify camera settings, modify event handling schedule/settings, upgrade					
Remote	firmware, format storage, backup / restore system configuration, modify recording					
User	schedule, modify time, modify e-mail server settings, modify system information,					
Behaviors	modify network settings, modify user &permissions, import language file, modify					
	workspace parameter					

By changing the criteria, the result will automatically refresh accordingly.



Export System Log

To export the logs, click "**Export**" and save the xml file to your local computer. You may view this file with **Notepad** or **XML Editor**.

```
<?xml version="1.0"?>
- <Logs
        <Log Source="Local" Account="admin" Date="2013/09/07 04:51:08" ID="1">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:50:05" ID="2">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="3">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="3">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="4">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="4">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="4">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:48:01" ID="5">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:48:01" ID="5">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:43:00" ID="7">Backup system configuration </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 00:48:40" ID="8">User login </Log</td>

        <Log Source="Local" Account="admin" Date="2013/09/07 00:44:13" ID="9">System start up</Log</td>
```



Customize Live Screen Layout

You may customize the layout style, channel position and patrol behavior. Your arrangement of **Live** screen layout will be the default view after any local user logs in to ENR.

Change Layout

(A) To change current view layout, select your desired layout by clicking on a Layout Selection Button.

Add Camera Views to Channels

- (B) To immediately see all the camera views, <u>double-click</u> on "All Channels". The live view will change to the layout with the maximum channels.
- (C) You may drag any camera from Camera list into your desire channel to display its view.

Remove Camera Views

- (D) To remove a camera view from a channel, right-click on the channel to bring up Channel Menu and click "Disconnect".
- (E) To remove all camera views at a time, click "Application" on title bar and then "Disconnect All Channels".
- (F) Push the current view to local live view. By doing this, a new local customized view will be created to display this view. Please make sure there is no blank channel in your current remote live view.





Layout Selection Buttons

Patrol Switch



Execute Sequence Patrol

The patrol function will slide-show multiple channels at your defined length of interval. At one time the layout will show as many channels as its maximum display channels. For instance, during the patrol, a 3x3 layout will show channel 1~9, and then 10~16.

3 Ù	1/2 ▶

- 1. On Live screen, input the duration of each view next to U.
- **2.** Click **U** to start the patrol.
- 3. The patrol will go on until you click it again.

Save a Customized View

You may save up to five customized view on local **View List**. A saved view will remember (1) the layout style, (2) camera arrangement, (3) view size (stretched / un-stretched / full-screen)

- 1. Select a View from the View List.
- 2. Customize your layout with the tools provided on Layout Selection Buttons.
- 3. Click in bottom right corner of **View List** to enter Save View window, input the view name and click "**Save**".

All Cameras	Application	Camera List	Hide Toolbar	Help About	t 2013/12/04 17:33:41 Wed
- View 1 1 View 2 View 2 3 View 3 3 View					Live
4 View – View					Pa
- Camera All Cameras (7)					T ba
Rep 01 Fisheve 2 View	Save View				
📑 06 E43 🚽 🙀 3 View	ID		3		Set Set
Event 4 View	Name		All		
No.66 66 643 2013/12/04 17 30.65		Reset	Save	Cancel	
2013/12/04 17:30:65 No. 65 06 E43 2013/12/04 17:30:16	2		3		
No. 64 06 E43 2013/12/04 17 29 59					1 mar
	and in the				
				3 <mark>V</mark>	 1/1 → O # 7

Set a Default View

You may also set one View as default, in this way, you may immediately start live monitoring after logging in to the system. To set a default view, simply select a desired view on **View** list, and click

