

For V4.04.36 Firmware

2016/05/06



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uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications to the equipment that are not expressly approved by the responsible party for compliance could void the user's authority to operate the equipment.

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This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to European Standard EN 55022 and EN 55024. In a domestic environment, this product may cause radio interference in which cause the user be require to take adequate measures.



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 ENRSeries (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.

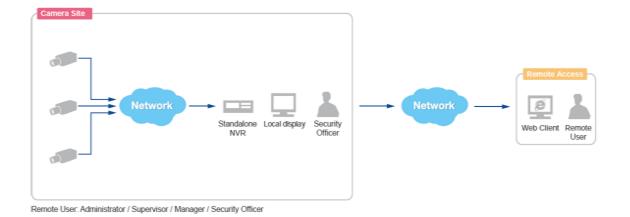
ENR Server / Client Architecture

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

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, 10.0 or 11.0				

- *1 PC spec requirements are the same for 32-bit and 64-bit systems.
- *2 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>.
- *3 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, <u>up to four-megapixel H.264 video stream</u> can be displayed on local live screen and <u>local playback screen</u>.

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, in the meantime, 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 stream.

- *2 H.264 is the only displayable codec for local live view and playback. Although the channels using other formats of codec will appear blank, 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

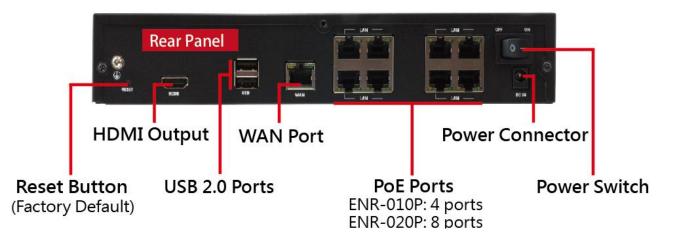
This product package includes the following items:

ltem	Description
1	ENR Server x 1
2	Printed quick installation guide x 1
3	AC power adapter x 1
4	Accessories Pack x 1
5	Adapter converter set x 1
	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





Power Button & Reset Button

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

Turn On the Device

Switch the **Power Button** to "**ON**", the **Power LED** will light up and turn solid red.

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 → Power tab, and click "Shutdown".

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	
	Reboo	it a							mera
	Click to restart this unit, which will take a while.								
	Shutd	own							mera
	Click to shut down this unit, which will take a while. After the system shuts down, the orange System Status LED will go off, please press the Power Button on the front panel to completely power off the unit.								inera
	14 Cam	era			Camera			16 Ca	mera

The local display screen will turn black, with an information dialogue box showing up.
 When the System LED on the front panel is off, you may switch the Power Button to "OFF" 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 <u>default</u>. It is strongly recommended that <u>you back up previous settings with **Backup** function</u> <u>and export the system logs before resetting to factory default</u>.</u>

- 1. To begin, switch the **Power Button** to "**OFF**" position to turn off the unit.
- 2. Press and hold the **Reset Button** with a pin or clip.
- 3. Switch the **Power Button** to "**ON**" position, make sure the **Reset Button** remains in pressed state for a full 5 seconds after the unit is powered on, and then release it. The unit will enter the resetting process immediately and automatically restart.





LED Indicators

The LED indicators on front panel show the current device stat	tus:
--	------

ltem	Indicator Status	Light Color	Description
Power LED	Solid	Red	The device power is on.
LINK(System) LED	Solid	Green	The O/S is running.





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 <u>Dynamic mode (DHCP Client</u>). 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

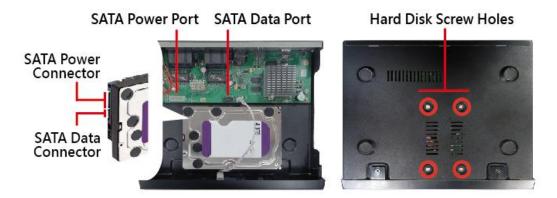
This system requires one hard disk to store video recordings and firmware image when upgrading system. Please follow the instructions below to install your hard disk into the disk bay.

Step 1 Remove the Case Cover



Loosen the five screws tha fix the chassis (one on both the left and the right sides and three on the rear side) and remove the chassis cover..

Step 2 Install the Hard Disk



Align the hard disk to the four holes on the bottom of the unit, and secure the disk with the provided disk screws.





SATA Power Cable SATA Data Cable

Connect the provided SATA power cable from the SATA power port on the motherboard to the hard disk's power connector. And connect the SATA data cable from the SATA data port on the motherboard to the hard disk's data connector.

Step 3 Install the Case Cover Back

Replace the chassis cover and fix it with the five chassis screws.

Network Connection Architecture

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

PoE Ports

<u>There ports are the default camera porst</u> 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 another DHCP server exits</u>. Through these ports, ENR supplies power to the connected devices with the power capacity-- ENR-010P: **80W**; ENR-020P: **140W**.

WAN Port

WAN 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.

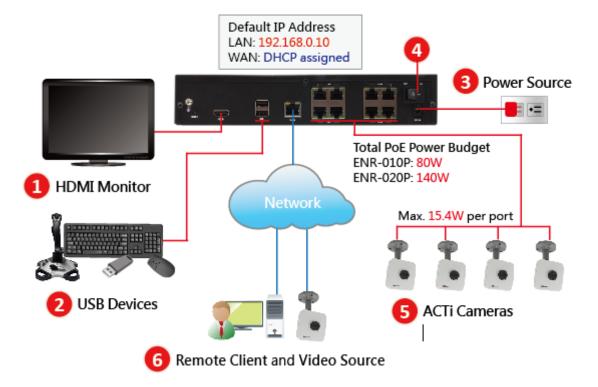
By default, once connecting to a network, it will first try to get an IP address assigned by your network router from DHCP server.

You 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</u> <u>Settings</u> on page 43).



Connect the Devices

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



- 1. Connect the HDMI monitor.
- 2. Connect the USB devices.
- 3. Plug the power adapter into ENR and the electricity outlet.
- **4.** On the unit's rear panel, press down Power Switch to the side with "I" mark, and the Power Status Indicator on the front panel will turn solid red.
- 5. Configure the network setting of the cameras to DHCP-enabled mode, and connect them to the PoE Ports with network cables. ENR will automatically assign IP addresses to these connected cameras. It is essential that your power plan take ENR's total power budget and each connected device's power requirements into consideration.
- **6.** Attach the network cable to WAN Port (optional, required for remote client connection or another remote video source from 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**".

	ACTI Connecting Vision	
	ENR-130	
Account	admin	
Password	*****	
Language	English	2
	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 1 View 2 View		Welcome to HDD	Setup Wizard	
3 View 4 View 5 View		Storage Settings		
– Camera	05 Camera	O Maximum Recording Days Storage Device	7 Days Apply 7 Camera	08 Camera
		SATA-1 WD1002FBYS-02A6B0 SATA-2 WD2500YS-01SHB0		
	09 Camera	1 Storage Information	1 Camera	12 Camera
		Used:	33.76 GB 0.00 GB	
– Event		Recording:	33.76 GB NO unknown Format	
	13 Camera	1 mera Recordable: S.M.A.R.T.:	S Can <mark>NO Enable</mark> PASSED Refresh	16 Camera
		ОК		
	ENR1200	1 192.168.0.10 📮 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		Set <u>Setup</u> 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)		(Fo	ormatted)
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.



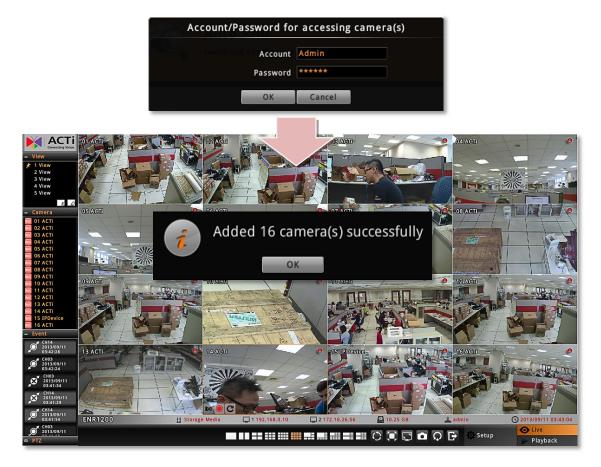
This will add detected H.264 video streams and display all video streams on **Live** screen right away

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



		9	Search Camera	S		
1	АСТі		Search	3		
Accoun	admin	6				
Passwor	d *****		2	47	7 camera(s) f	ound. Supports 0/16
Name	Brand	Model	IP Address	Channel	Stream	Status
асті 🛕	ACT	етт ксмС	172.16 26.1 172.1022	1 1 E	. F	Inaccessible G
АСТІ	ACTi	КСМ7911	172.16.26.2	2	-	<u> </u>
АСТІ	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
АСТІ	ACTi	B81	172.16.26.8	1	1,2	
ACTi	ACTi	TCD2500	172.16.26.9	1	1,2	
АСТІ	АСТі	D54	172.16.26.10	1	1,2	
	ACTi	E96	172.16.26.17			Inaccessible
АСТІ	АСТі	B21	172.16.26.44	1	1,2	T
				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 C

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.

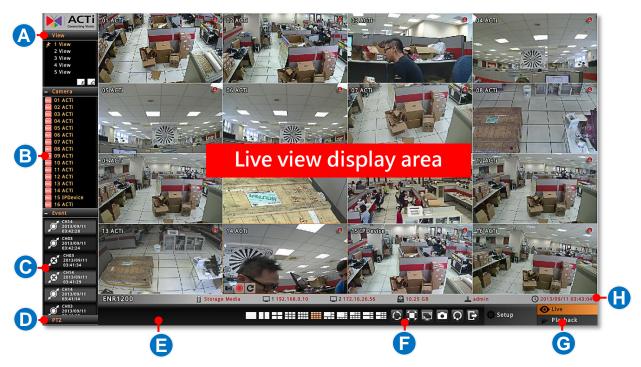
Log Out

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.

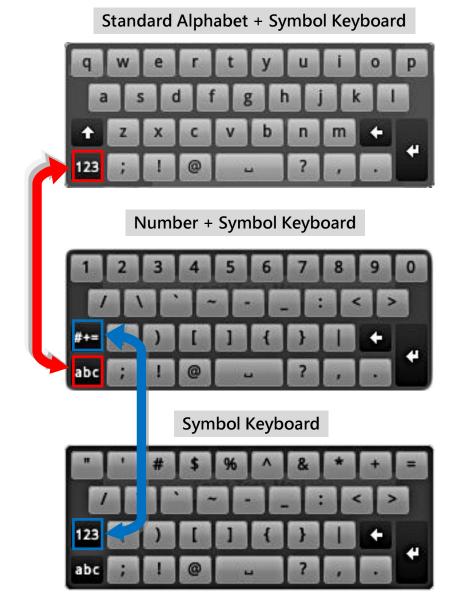


Input Devices

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.





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	446 User	Maintenance	U Power	8
Information			or Speed buttons to adj						
Email			buttons to auj		rsor speed.				
Mouse		\rightarrow		Slow		8	Fast		
Keyboard					-	+			
Joystick									
	- 10 ASTQ							e indi	

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".

System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	8
Information Date and Ti			vare Keyboar		evboard.				
Email Mouse									
Keyboard		\supset							
Joystick									
91. J.C	n nen		1					fifaA	



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.

All Cameras 01 Camera 02 Camera 03 Camera 04 Camera 05 Camera	ID Nam	matically apply thes e	Brand	to cameras u Model	pon connection. IP Address	Channel	Stream
02 Camera 03 Camera 04 Camera 05 Camera	D6 Camera ID Nam	e	Brand	Model	IP Address	Channel	Stream
06 Camera							
07 Camera 08 Camera 09 Camera 10 Camera 11 Camera 12 Camera 13 Camera							
14 Camera 15 Camera 16 Camera				Camera			16 Camera

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.



System Networ	rk Camera		Add Camera	ince I	ower 🙆
All Cameras 01 Camera 02 Camera	Auto ID		Auto Add Search and Add Cameras Automatically (ACTi+H.264)	tress	
03 Camera 04 Camera 05 Camera 06 Camera			Search Cameras Support Other Camera Brands (ACTI, AXIS, SONY, VIVOTEK)		
07 Camera 08 Camera 09 Camera 10 Camera 11 Camera		.	Add Camera Manually Support Other Camera Brands (ACTI,AXIS,SONY,VIVOTEK)		
12 Camera 13 Camera 14 Camera 15 Camera			Add Camera Manually (RTSP) Connect to Cameras via RTSP Protocol		
16 Camera			Cance	1	
			Add	Duplicate	Delete

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 24 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 24 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.
 - 1. 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 (amera Setting Name IP Address User Name	Camera 172.16.26.			P Port 80	US Ca	
09 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16 Camera									mera
	14 Came	r a			15 Camera		Delete	16 Car Save	

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

System	Camera		Event	Log	User I	Maintena		ပ _{ower}	8
All Cameras	Get C	amera Setting	S				犬	@ ×	0
01 Camera				JOT Carmers					
02 Camera		IP Address	172.16.26.	58	HTTP	Port 80			
03 Camera		User Name	admin		Passw	vord ***	****		
04 Camera		Brand	ACTi		Firmw	are A1	D-310-V4.1	12.09-AC	
05 Camera		Model	TCM3511		Serial Num	hor TC	M2E11 10	C X 0001/	1
06 Camera			10110011						
07 Camera		Stream Mode	SINGLE	-	Proto	ocol TCI	P		-
08 Camera		Channel		Ţ					
09 Camera	Stre	4							
10 Camera	Strea	am I							
11 Camera		Encoder	MPEG4	-					
12 Camera		Resolution	N640y480						
13 Camera									
14 Camera		Frame Rate	15						
15 Camera		Max Bitrate	UNLIMITED)					
16 Camera		Bitrate	3M						
								16 Ca	
								6	
						Dele	to	Save	•
						Dele		3446	



- (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".

System	Network	Camera	Schedul	e Event	Log	Us	er	Maintenance	Power	8
All Cameras		RTSI	P Stream	Settings						
01 Camera			Name Ca	imera	3					Camera
02 Camera					<u> </u>					
03 Camera		IP A	ddress 17	2.16.26.15						
04 Camera			URI /				?			
05 Camera		DT	SP Port 55	4			ACTi:			*
06 Camera		RIS	SP Port 5:	4			ACTi: Appro	/unicast/media	1	
07 Camera		Jser	Name ac	lmin				ont Vision: /h26	4.sdp	
08 Camera		Pa	ssword **	****			Avigil	lon: /defaulm		nType=u
09 Camera							AVTec AVTec	:n:/ :h:/live/h264		
10 Camera		PI	rotocol R	P Over UDP				:h: /live.h264		
11 Camera								/mpeg4/media /axis-media/m		*
12 Camera							AAID.	/uxis-inculu/in	curatanip	
13 Camera										
14 Camera										
15 Camera										
16 Camera										
								Delete		4 Save



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	Camera	Event	Log	User Maint		Ower 🚫
All Cameras		Automatically app	ly these settings	s to cameras	upon connection.		
01 ACTi		ID Name	Brand	Model	IP Address	Channel	Stream
02 ACTi		1 АСТІ	ACTI	E97	172.16.26.181		1/1
03 ACTi		2 АСТі	ACTI	B45	172.16.26.185		1/1
04 ACTi		з асті	АСТІ	E22	172.16.26.191		1/1
05 ACTi		4 ACTi	ACTI	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 Camero 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 Scher		Log	User Maint	tenance	Power S
01 ACTi		ID Name	Bran	d Model	IP Address	Channel	Stream
02 ACTi		1 ACTi	ACTi	E97	172.16.26.181		1/1
03 ACTi		2 ACTI	ACTI	B45	172.16.26.185		1/1
04 ACTi		з асті	ACTI	E22	172.16.26.191		1/1
05 ACTi		4 ACTI	ACTI	E97	172.16.26.181		1/1
06 ACTi		5 ACTI	ACTI	B45	172.16.26.185		1/1
07 Camera		6 ACTI	ACTI	E22	172.16.26.191		1/1
08 Camera		, v Ach	Acti		1721101201151		
09 Camera 10 Camera 11 Camera 12 Camera 13 Camera 14 Camera 15 Camera 16 Camera							
	14 Camer	3		15 Camera	Add Du	plicate	filotomena 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	Network	Camera	Schedule	Event	Log	User Mai	ntenance	U Power	8
All Cameras		Get C	amera Setting	ACTi				Ť.	
01 ACTi				172.16.26.1	647 Camera	HTTP Port	20	(C)(B)
02 ACTi					01			\sim	
03 ACTi			tame	admin		Password	*****		
04 ACTi			Brand	ACTi		Firmware	A1D-500-V6	.05.16-AC	
05 ACTi			Model	E97		Serial Number	E97A-XX-1	3K-00569	
06 ACTi 07 Camera			Stream Mode	DUAL		Protoco		V	n l
07 Camera 08 Camera					_			_	
09 Camera			Live Stream	1		Record Stream	1		L
10 Camera		Stre	am 1			Stream 2			era
11 Camera				11064		En codo	11064		-
12 Camera			Encoder	H264		Encoder		•	
13 Camera		A)	Resolution	N1920x108	0 🔽	Resolution	N320x240		
14 Camera			Frame Rate	30		Frame Rate	10	-	1
15 Camera			Max Bitrate	UNLIMITED		Max Bitrate	UNLIMITED		
16 Camera			Bitrate		F	Bitrate		V	
			Ditiate	OM	M	Dittate	2111	M	J
							Delete	Save	

(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.



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(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.

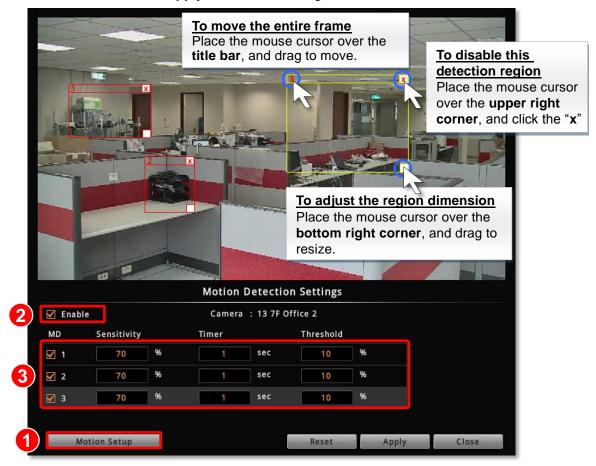
After selecting a camera, click "**Video Adjustment**" window, the fields available for modification (depends on models) will be enabled. Select the desired value for the field, and click "**Apply**".



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%.

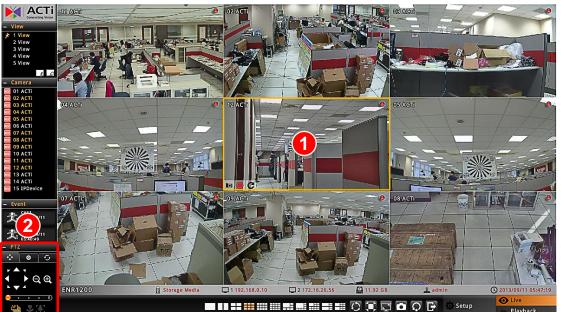


Configure PTZ Presets

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.

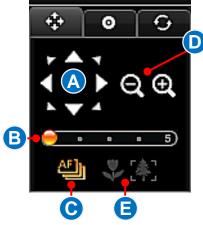
Open PTZ Panel

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.



PTZ

No	Function
Α	Eight-direction arrow keys Click to pan or tilt the camera (only available for camera with Pan/Tilt/ capability).
В	Pan/Tilt/Zoom speed Click to change the speed. Provided speed scale is from 1 to 5 (available for cameras with Pan/Tilt/Zoom capability).
С	Auto focus (available for cameras with auto focus capability)
D	Zoom (Available for cameras with a controllable zoom)
E	Manual focus(Available for cameras with a controllable focus)Near focusFar focusThese buttons are enabled when the "Auto Focus" is disabled.



Go to Preset Points

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

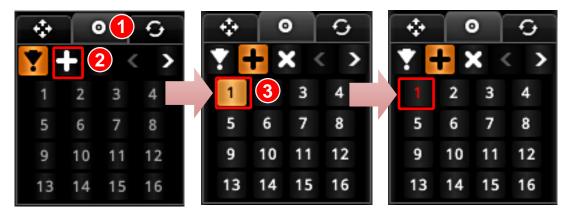
Go to a Preset Point

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 **I**, use onscreen buttons to define a view.
- 2. Click the tab to enter **Preset Points Operation** mode.
- 3. Click 🗲 🗖
- 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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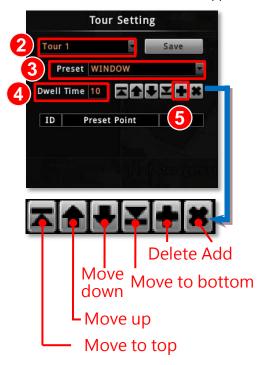
9

Edit PTZ Preset Tour

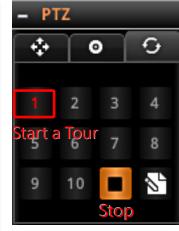
Preset Tour is a preconfigured PTZ sequence that directs the camera to cycle through multiple preset points, including where to look and how long to look at each location. With this preset tour, your PTZ device can perform an automatic patrol to scan through your cared areas.

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

- 1. On PTZ Panel, click [99] and then N 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**

Dower Log • Event mm User Maintenance Network Camera Date and Time System Name ENR1 Network ENR-010-V3.02.02-AC BLD-V2.06-A Firmware Email Serial Number ENR1200-A-13D-00006 Mouse LAN 1 MAC Address 00:0F:7C:0A:A1:32 Keyboard LAN 2 MAC Address 00:0F:7C:0A:A1:4B Joystick Company Name ACTi Corporation ENR1200 Product ID Channel Number 16 SATA Port Number Save

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 → 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 Network	Camera	Schedule	Event	Log	User	Maintenance	U Power	8
Information	Co	nnection Info	rmation					
Network Connection				LAN 1		LAN 2		W.
Port Mapping DHCP Server						LAN 2		
DDNS		Stat						
		Hardware Addre Spe		0:0F:7C:0A:A1:32	2 00:0	0F:7C:0A:A1:4B		
-1112		Connection Ty		Manual		DHCP		
		IP Addre	255	192.168.0.10	1	72.16.26.56		
		Subnet Ma		255.255.255.0		55.255.255.0		
		Gatew DNS Setti	2	192.168.0.254 Manual	1	72.16.26.253 Auto		
	P	rimary DNS Serv				172.16.5.19		*
	Seco	ondary DNS Serv	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	Main	X itenance	Power	8
Information		L	AN 1					LAN 2		
Network Connection Port Mapping DHCP Server DDNS	Y	Configuratio	on In IP address					cludes a Di	HCP server	
	I	f it does not, th Cor	nection Type IP Address	Manu				. 10		
			Subnet Mask Gateway		. 29		255 0	 . 0 . 254 		
			DNS Setting	Manu	Jal					
			ry DNS Server ry DNS Server		• [] • [•		
	Defau	lt Gateway 🛛 🛛	N 2						Sa	ve:

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
0	your network administrator.
Connection Type	DHCP : Use this connection type if you have a DHCP server on your
	network router.
	PPPoE : 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	Lload to define if the destination is in the same subnet I ANIA default
Subilet 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 <i>Auto</i> .
	The DNS server that translates domain names to actual IP
DNS Setting	addresses. If this LAN is Manual mode, and you will set an SMTP
Primary DNS Server Secondary DNS Server	server for event notification, be sure to set the Primary DNS and
	Secondary DNS. LAN1 default is <i>Manual</i> ; LAN2 default is Auto.
	Choose the gateway of the LAN card whose network is to connect
Default Gateway	with Internet. Default uses LAN2's setting.

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.

System	Network	Camera	Schedule	Event	Log	User	Maintenance	Power	8
Information		Po	rt Mapping						
Network Conne	ection	Pl	ease set your H	TTP port for re	mote clients	and comma	nds.		N.
Port Mapping									
DHCP Server				HTTP Port	80				
DDNS									
									500
								Sav	/e



Enable DHCP Server

You may enable the built-in DHCP server for either LAN1 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.
- 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 Network	and the second	era Schedule	Event	Lo	=		User	м	ainte	nance	U Power	8
Information Network Connection Port Mapping DHCP Server		DHCP Server Please enable C clients on the s	DHCP server to pecified netwo	automat ork.		y assig	n IP	addres	s lea	ses to a	II DHCP	
DDNS		Sut	Network onet Address	LAN 1 192	•	168		0		0		
		Broad	Subnet Mask cast Address g IP Address	255 192 192	• •].[255 168 168].[255 0 0	•	0 255 101		
File			g IP Address	192].[168].[0].[200		
											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	8
Information	nection	DDI							
Port Mapping		Dyr tho	ugh it does no	ws your serv t possess a s	ver to have a un static IP addres	s.	s on the Internet	, even	
DHCP Server			Servic	e Provider	DynDNS				
				lost Name	acfitest)	T THEAT	
				lser Name Password	actier				
								Sa	/e



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.

		Camera	Schedule	Event	E	190		Date/	Time S	etting		-
System	Network	Camera		Event	Log			March		2013		►
Information	n	Date	e and Time		N	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Date and Ti	me			-		25	26	27	28		2	
and the second		Click	k the button to c	hange system	□ \ {. /	4	5	6	7	8	9	
Network				20	13/09/0_01	11	12	13	14	15	16	
Email				20	15/05/0201	18 en pr	19	20	21	22	23	
Mouse						25 25	26 2	27	28 4	29 5	30 6	31 7
Mouse		Tim	e Zone				2	3	4		0	/
Keyboard		Sele	ct time zone an	d configure d	aylight savir	NTP Serve	: 56	3 1	om I	OK		Cancel
Joystick			Time Zone (UTC+08:00) Asia/Taipei									onni
				🗌 Enable	e Daylight Sav	ving Time						
		NTP	Server									
		Sync	Synchronize system time with the NTP server.									
			NTP Serve	er acti-ad.ac	ti.com				A	pply	1	

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".

System Network Information Date and Time	Email	hedule Even	nt Log ail when an event o	User	Maintenance	Power	
Network Email Mouse Keyboard Joystick		Sender Email Server Port Account Password	wen.cheng@acti.c smtp.acti.com 25 wen.cheng *********	om	2		
						26.7-TCM6630	

- 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	Came		Schedule	Event	Log	User	Maintenance	U Power	8
Information Date and Time Email	06 Camer	3		e Settings ximum Reco	rding Days	07 Cam <u>ara</u> 7	Days	Apply	- - 08 Ca	
Storage			Storag	e Device						
Mouse Keyboard Joystick			S/	TA-1 WD100 TA-2 WD250 itorage M	OYS-015HB					
JUJUCK		a 1	Storag	e Informat	ion				12 Ca	
				Capacit	y:	927.72	2 GB			
				Use	d:	9.98	B GB			
				Fre	e:	917.74	4 GB			
				Recordin	g:		YES			
				File Syster	n:	15 CameræN	R-FS	Format	📕 16 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 Disable	Recordable:	YES	Disable
S.M.A.R.T.:	PASSED Refresh	5.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.	
	Certain error has been found on	1.On "Storage" page, select the
WARNING	this disk.	disk and click "Disable" next to
E 4 11 E D	A number of errors have been	Recordable status to stop the
FAILED	found on this disk.	system from saving recording
	Linchla to get the disk	into it.
UNKNOWN	Unable to get the disk	2.Watch playback and export
	information.	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.

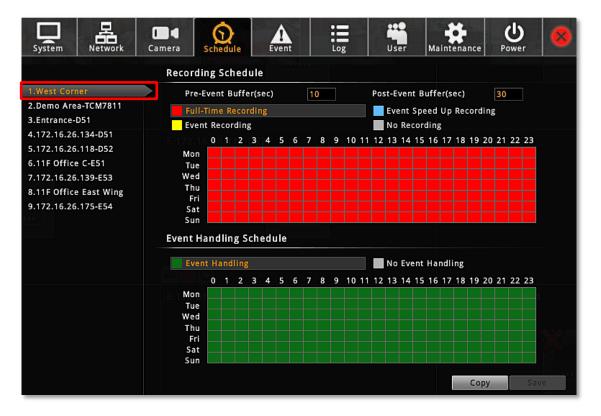


Schedule Recordings

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

Set the Recording Schedule

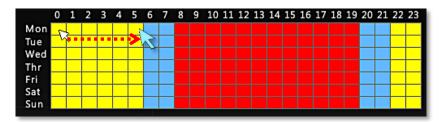
On the time table

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

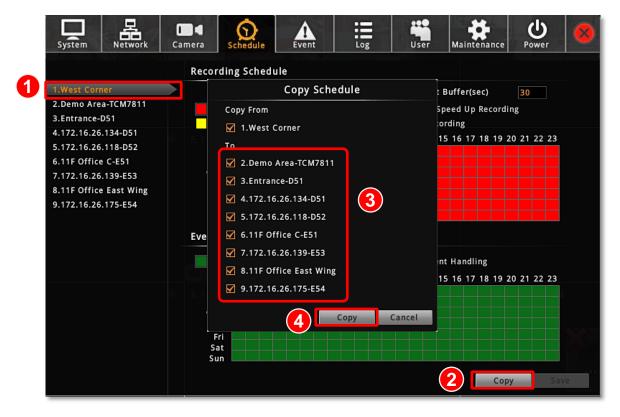
- 1. Click on the recording mode "No Event Handling".
- 2. Click and drag over the "Time Track" to set time period.
- 3. Click "Save".

Tue Med	Event	t Ha	nd	ling											No	Eve	ent	Hai	ndli	ing					
Tue Wed Thu Tue Tue Tue Tue Tue Tue Tue Tue Tue Tu		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																								
Fri	Thu										_	-				-			-1		5				
	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

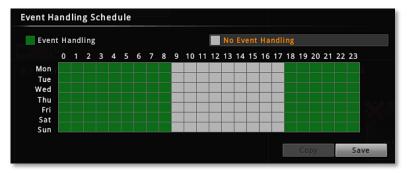
When something happens on camera site, such as someone walks by, the door opens or a fire breaks out – these are all **Events**. The event which occurs in the environment and was pre-programmed in the camera serves as **Triggers**. Triggers cause the device to react with **Responses**. The link between 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		Maintenance	Power 🙆
1.West Corner	Camera West	Corner		Motion Dwell Ti	me (Sec) 10
2.Demo Area-TCM7811 3.Entrance-D51	Event Motion 1		Respons	e	
4.172.16.26.134-D51 5.172.16.26.118-D52 6.11F Office C-E51	Motion 2 Motion 3				ce C-E51
7.172.16.26.139-E53 8.11F Office East Wing	DI 1 On				
9.172.16.26.175-E54	Network Loss Network Recovery				
					26.175-E54
					×
	Set	Сору	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: M	otion 1 Mon Dwell Time
✓ Trigger DO	Send Mail 🔕 Go	to Preset Be	ep Enlarge	
	🗹 Enable			
	011 Camera	1 West Corner		
	Matwork Loss DO	DO1 On		
	After Duration	30	Second(s	
	Then DO	DO1 On		
			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 49) before this trigger is enabled.

🖉 Trigger D	o 🗹 Send Mail 🔕	Go to Preset Beep Enlarge
-051	Enable	
	Motion 3 To	wells.wei@acti.com
	DI 1 On Subject Network Loss	Camera: 1 West Corner - Event: Motion 1
	Network Recovery Body	Camera: 1 West Corner Channel ID: 1 Event: Motion 1 Server: ENR
	Attach a Snapshot	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>40Go to Preset Points</u> on page 40) 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.

Came	ra 172.16.26.7-TCM6630		Event: Mot	ion 1 ollon Owell Time (S
Trigger DO	Send Mail ✔ Go to Pre	eset Beep	Enlarge	
	🗹 Enable			
	Camera	9 172.16.26.7-T	СМ6630	
	Go to Preset	1		
	After Duration	5	Second(s)
	Then Go to preset	2		
			ОК	Cancel



●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	0 6.7-TOM46330	Event:	Motion 1
Trigger DO	Send Mail 🐓 Go to	Preset 🐓 Bee	p Enlarge	
4-051	M Enable			
1-052 851				
9-653				
ist Wing	DI Do Duratio	on 5	Second(s)	
	Network Lonal Time	es 3		
			0	K 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	Well Time (S
Trigger DO	Send Mail	🖊 Go to Preset ✔ Beep	🐓 Enlarge	
	🗹 Enable			
	Camera	3 Entrance-D51		
	Duration	5	Second(s)	
			OK Cano	el

- 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.

System Network	Camera	Schedule	Event	Log	User	Maintenance	Power	
1.West Corner			Copy Ever	ıt	Respons	Motion Dwell Ti	me (Sec) 10	
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	Motic Motic DI 1 DI 2 Netw Netw	To ✓ 1.West (✓ 2.Demo ✓ 3.Entrar ✓ 4.172.10	Area-TCM7811 nce-D51 6.26.134-D51 6.26.118-D52	nd Mail>		6.11F.Off		
			6.26.139-E53 ffice East Wing Copy	Cance	èl			



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.



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Syster] m	Network (Camera Schedu	le Event	Log	User	Maintenance Power
	Bac	k Expor	t			Total	42 🔄 🔄 1 🔽 / 5 ⋗ ≫
	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	Local	7	Add Camera 08 Combro
	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 deleted</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="5">Camera 9 is added</Log>
<Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="5">Camera 9 is added</Log>
<Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="6">Camera 9 is added</Log>
<Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="5">Camera 9 is added</Log>
<Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="6">Camera 9 is added</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">Camera 9 is deleted</Log>
<Log Source="Local" Account="admin" Date="2013/09/07 00:48:40" ID="7">Sackup system configuration</Log>
<Log Source="Local" Account="admin" Date="2013/09/07 00:44:13" ID="6">System start up</Log>
<Log Source="System" Account="admin" Date="2013/09/07 00:44:13" ID="6">System start up</Log>
</Log Source="System" Account="#" Date="2013/09/07 00:44:13" ID="6">System start up</Log>
</Log Source="System System Syste
```

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	
Group		Grou	P						
User		Admi	Name nistrator	Full perm	nission and sy	Descri stem contro			
				Add New uard ecurity	Group OK	Cancel	6.11F Off		
		Perm	ission: East V	Wing	A	dd	9.172.16 Edit Dele	26.7-TCM te S	6630 ave

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



System Network	Camera	Schedule	Event	Log	User M	t aintenance	Power 🔕
Group	Grou	р					
User	Admi	Name nistrator	Full parmics	ion and system	Descriptio	n	
	Guard		security	ion and system	Control		
	91 5 .172		2			bahir Oin	ce C-E51
	Derr	ission: East W				0.470.46.7	
			ing				26.7-12M6630
	🗹 Liv	ve	🖌 Playback	Set	tup	Remote	e
				Add	Edit	Delete	e 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.



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System	Network	Camera	Schedule	Event	Log	User	Maintenance	U Rower
Group		Use	r					
User			Name		Group		Email	
			in Ac	dd New U	ser			
			Passv Confirm Passv	word ** mail sec@	acti.com nistrator OK	Cance	5.11F Of	fice C-E51
					A	dd	Edit Dele	ete Save

Edit / Delete a User

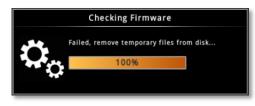
You may edit an existing user or delete it. Select the user on **User List**, click "**Edit**" or **Delete**". Please always click "**Save**" before leaving this page.

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 Upg	grade					
Firmware Upgrade Settings Backup/Restore Troubleshooting	4 5.1	Select file(*.up		e system. 10-V2.01.00-	AC.upg		Upgrade	
Language 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_[yyyymmdd].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	U Power	8
Storage		В	ackup						
Firmware U	pgrade	В	ack up settings	to USB flas	h drive (*.nvr)			Bac	kup
Settings Ba	ckup/Restore						(
Troubleshoo	oting						6.11F		
Language A	djustment		g up settings				e Name: Backu	p_20130312	.nvr
			File Nam	ie Backup	20130312.nvr			Rest	tore

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 flas	h drive (*.nvr))		Ba	ckup
Troubleshoe		5.17							
Language A	djustment		Restore						
			Select file(*.nvr)				ngs		
			File Nam	Backup	_20130312.nvr _20130312.nvr _20120217.nvr	r	x	Kes	store
							~		
									5630

- 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.



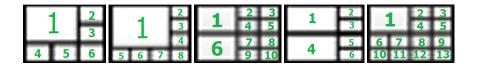
You can **Reset** the camera positions by clicking **O** on **Live Menu**.

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.

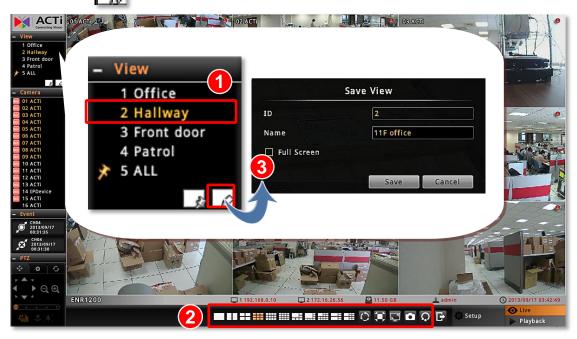
Patrol Tin	ne Setting
5	Second(s)
ОК	Cancel

- 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 Cin 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 26), 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

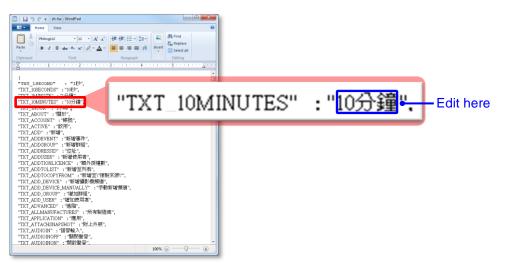
After the USB disk is connected,

- 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.

System	Network	Camera	Schedule	Event	Log	User	Maintenance	Power	
Storage		E	xport Langua	age					
Firmware	Jpgrade	E	xport language	translation f	ile (*.json).				
Settings B	ackup/Restore								
Troublesh	ooting			File	Name 中文(素	<體) (zh-tw.j:	son) 🔽	Export	
Language	Adjustment		mport Langu	age	Lang	uage file	e name		
	Exp it.	ort zh-tv	v.json to I		n storage	succes	s. Please	check	
				OK					
			testore Langu						
		F	lestore default	language trar	slation file.				
				File	Name Český	(cs.json)		Restore	

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.

Camera	Schedule	Event	Log	User	Maintenance	U Power	8
			file (*.json).				
(8) 05 Ca	mera-1		Name Englis	sh (en-us.jsor	n) 🔽 🖓	Export	
		-	file (*.json).				
R	estore Lang		Name 中文(啓體) (zh-tw.js	son)	Import	
08 C _R	estore default			(cs.json)	09 Came	Restore	
	Camera E OS Ca In In	Camera Schedule Export Langu Export languag OS Camera-1 Import Langu Import languag Restore Lang	Camera Schedule Event Export Language Export language translation File Import Language Import language translation File Import language File File Restore Language Schedule Schedule	Camera Schedule Event Englist Export Language Export language translation file (*.json). File Name Englist Import Language Import language translation file (*.json). File Name Proc(star) Bestore Language Restore Language Restore default language translation file.	Camera Schedule Log User Export Language Export Language User Export language translation file (*.json). Export language translation file (*.json). Import Language Import Language Import language translation file (*.json). File Name English (en-us.json) Import language translation file (*.json). File Name 中文(繁麗) (zh-tw.json) Restore Language Restore default language translation file.	Camera Schedule Log User Maintenance Export Language Export language translation file (*.json). Export language translation file (*.json). Import Language Import Language File Name English (en-us.json) Import language Import language translation file (*.json). File Name 中文(繁麗) (zh-tw.json) Restore Language Of Camera Restore default language translation file. Of Camera	Camera Schedule Event Log User Maintenance Power Export Language Export language translation file (*.json). Export Export Export Export 05 Comerant File Name English (en-us.json) Import Export Import Language Import language translation file (*.json). Export Export Import language File Name Po(繁雜) (zh-tw.json) Import Restore Language Of Camerant Of Camerant 03 Restore default language translation file. Of Camerant

- 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



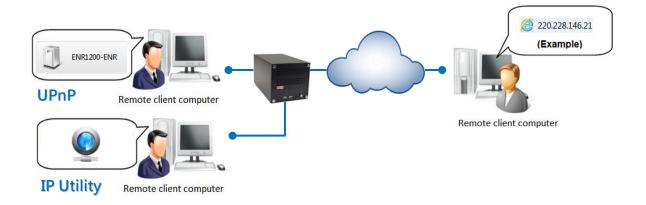
Find ENR in Your Network

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.

\bigcirc	🗢 📬 🕨 Network 🕨					✓ 4 ₂	Search Net 🔎
File E	dit View Tools Help						
Organiz	e 🔻 Search Active Directory	Network and Sharing Center	Add a printer Add a	wireless device			• 🔳 🔞
-	Internet gateway device						^
 Other 	Devices (54)						
Ũ	ACD2000-09C-X-00043	ACD2100-10A-X-00	0450	ACM1431-08H-X-00040		ACM3401-07L-X-00008	
Ũ	ACM3701-10H-X-00473	АСМ3701-12G-Е-0	0300	ACM4201-09C-X-00538		ACM5801-10A-X-00008	
Ũ	ACM7411-10C-X-00373	ACM8511-08E-X-0	0002	CAMERA-091545	J	CAMERA-0969F8	E
Ũ	CAMERA-09D558	CAMERA-09D8FF	Ĵ	CAMERA-0A01FA	Ĵ	D32A-XX-13A-00038	
Ũ	D51A-02-12H-00010	D52A-XX-12L-00	051	E12A-XX-12K-00107		E12A-XX-12L-00501	
Ũ	E41A-XX-12L-00112	E42A-XX-12L-002	286	E43A-XX-12L-00107		E51A-XX-12J-00073	
Ũ	E53A-XX-12K-00147	E53A-XX-13A-00	089	E62A-XX-13D-00232		E72A-XX-13D-00166	
Ũ	E73A-XX-13A-00028	E83A-XX-13A-00	163	ENR1200-ENR			-



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 	1 v			
							Durit	0	
\mathbf{v}	Refres	sh Device Setting	S Change Network Ad	dress Firmware Upgrade	Config. Backup	Config. Restore	Reset	Save&Reboot	-
otal: 59	Account	admin F	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			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			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			1
	172.16.26.170	00:0F:7C:0A:A1:4B	ENR-010-V3.02.01-AC	16 CH Embedded Non END1200	ENR1200-A-13D				1

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 Toolba	r Help Ab	bout 2013/07/22 18:43:48 N	/lon
🗕 Camera	I Lake	Video Ti	tle Bar	2011	- 1	1	
 All Cameras (0) 		Un-stret	ich Video	1			Live
		Disconn	nect All Chann	els			
- Event		Decode	I-frame	21			σ
- Event		Logout		-			Playba
		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.

(←) (←) (←) (→	ර් 🗙 🎯 Connect Vision 🛛 🗙 💮 🛣
File Edit View Favorites Tools Help	
ActiveX Control 'nvViewer' Is Downloading, Please Required Activex Control 'nvViewer' Instal Internet Explo	
Internet Explorer - Security Warning	to install this software?
Do you want to install this software? Name: nvViewer.dll Publisher: ACTI Corporation Image: More gptions Image: More gption	Name: nvService.ocx Nisher: ACTI Corporation pns 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. What's the nisk?
This website wants to install software from: 'ACTi Corporation'. What's the rist	k? Install ×



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

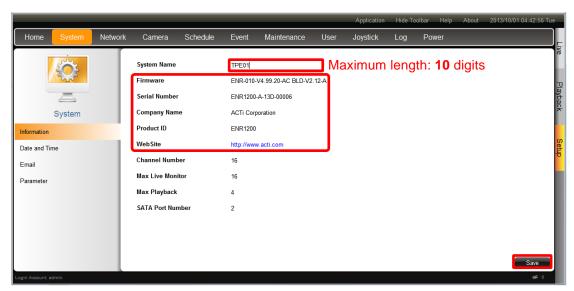
Before adding cameras to the system or starting up the recording and event handling, it is essential to configure certain system-wise settings on **Setup** page.

Set System Name

Go to Setup page \rightarrow System tab \rightarrow Information

								Application Hi	de Toolbar 🛛 Help	About	2013/10/01 04:33:29 Tue	e
Home S	stem Network	Camera	Schedule	Event Ma	aintenance Use	er Joysti	ck Log	Power				
	System System Information and	Setting		etwork twork Setting	6		Camera Add / Delete / Mo Setting	odify Cameras		Schedu Add / Dele Setting	te / Modify Schedule	ive Playback
	Event Add / Delete / Modify Ev	vents		aintenance stem Maintenanc	ce	EIN	User Add / Delete / Mo Group Permission			Joystick Joystick c		Setup
	Log View System Log			ower boot								
Login Account: admin											6 4 0	

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		~					
			Date and Time			6 15:04:29							гаураск
	System				Enable	Daylight Saving Time							Ż
Information			NTP Server		watch.std	time.gov.tw		Apply					
Date and Tir	me				Synchi	onize with the NTP se	erver autom	atically					oetub
Email													
Storage													
Parameter													
												_	
Login Account: a											Loca	Sync	Date and Time

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**".

	nd					
< Sun	Mon	<u> </u>	ly 20' Wed		Fri	⇒ Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21			24	25	26	27
28	29	30	31			
18	•	: 18	3 .	: 2	24	•
			OK			Car

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".





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.

									Application	Hide Toolbar	нер	About	2014/02/06 15:04:29 Thu
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
	Ö		Time Zone		(UTC+08:0	00) Asia/Taipei		×					
6			Date and Time		2014/02/0	6 15:04:29							
	System				Enable	Daylight Saving Time							
Information			NTP Server		watch.std	time.gov.tw		Apply					
Date and Ti	me				Synchr	onize with the NTP se	erver automa	tically					
Email													
Storage													
Parameter													
										_			,
											Local S	Бупс	Date and Time
Login Account: a	admin												## -3



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	p About	2013/09/30	23:09:58 Mor
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
			Default Gatew LAN 1	Connection Type		<u></u>		LAN 2 Con	nection Ty	pe DHCP	•	•••••	·
	Network			168 . 0	ddress . 10 t Mask								-
Information Network Cor				Ga 168 . 0	ateway . 254	_							
DHCP Serve	er			DNS Settin	g Manual	v			DNS Setti	ng Auto	•		-
HTTP Port				Primary DNS . Secondary DNS									
			L	AN1 Co	nfigu	ration		LA	N2 C	onfi	gurat	ion	
													Save



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

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 <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 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.



								Application	Hide To	olbar Help	About	2013/09/30 23:20:01 Mon
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
	Network			Subnet Ad	twork LAN dress 192. Mask 255.	168.0.0 255.255.0						Live Payback
Information Network Con DHCP Serve				Beginning IP Ad Ending IP Ad				200				Setup
HTTP Port												
Login Account: a	dmin											Save

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	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
				HTTF	Port 80							Lie P
	Network											Playback
Information Network Co												Setup
DHCP Serve												
HTTP Port												
DDNS												
												Save
Login Account: a	dmin											sa∓ 0

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: <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.

								Application	Hide To	olbar Help	About	2013/09/30 23:49:54 Mon
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
					VE	nable						ive
				Service Pro								
F				Host N	lame guns	snroses						Playback
	Network				lame wen							8
Information				Pass	word	•••••						
Network Cor	nnection											Setup
DHCP Serve	er											
HTTP Port												
DDNS												
												Save
Login Account: a	dmin											6 - 6



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 111.

								Application	Hide Too	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						
			Server		smtp.acti	com						- layback
	System		Port		25							
Information			Account		wen.chen	g						
Date and Tin	ne		Password		•••••	•••						Jointo
Email Parameter			Description Set email server	to send mail whe	en an event o	ccurs.						
										Sand	Test Mail	Save
Login Account: ac	dmin									Ochia	Hootevilaii	644C

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 Eve	ents	30							ve Playback
Information Date and Time										Setup
Email										đ.
Parameter										
										_
										_
Login Account: admin										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.

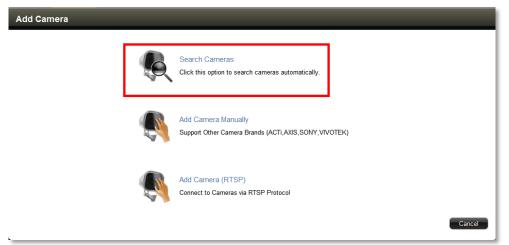
Add Cameras

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	ation Hide Toolbar	Help About	2013/10/01 07:46	:45 Tue
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power			
			Auto-save	e settings into car	neras upon c	onnection							Live
		8	ID Nan	те	E	Brand Model	IP Ac	ldress	Channel ID	Encoder	Resolution	Frame Rate	_
	1												Playback
	Camera												×
All Came	eras (0)												0
													Setup
										_	_		
										Add	Duplic	ate Dele	te
Login Account: a	ıdmin											4	F 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)	found. Supports 2/1
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.

										Applica	tion Hide Toolbar	Help About	2013/10/01 07:52:23 T
Home	System	Network	Camera	Schedule	Event	Mainte	nance	User	Joystick	Log	Power		
			Auto-sa	ve settings into car	neras upon co	nnection							
		1	ID Na	me	Br	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	Ті	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	Ті	A	сті	TCM3111	172.16	26.11	2	H264	N1280x1024	4
\sim	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	N1920×1080	15
	ACTi		08 AC	Ti	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	CTi	TCM3411	172.16	26.49	1	H264	N1280x1024	18
<u> </u>	ACTI ACTI		11 AC	Ti	A	CTi	D52	172.16	26.45	1	MJPEG	N1920x1080	15
	ACTi		12 AC	Ti	A	CTi	TCM7411	172.16	26.15	2	MPEG4	N1280x720	3
	ACTi		13 AC	Ti	A	СТі	TCM6630	172.16	26.67	1	H264	N720x480	30
- <u>-</u>	ACTi		14 AC	Ti	A	СТІ	TCM6630	172.16	26.67	2	H264	N720x480	30
	ACTi ACTi		15 AC	Ti	A	СТі	KCM7111	172.16	26.59	1	MJPEG	N1280x720	30
0	ACTI										Add	Duplic	ate Delete
Account: ac	dmin												⊯ ¥ 18





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 Ch	annel								Application	Hide Toolbar	Help About	2013/12/04 15:21:39 Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	: Log	Power		
 All Cam 0" 	Camera eras (1) 1 New Channel)	Basic	01 New (ve Camera S Conne	ettings I	pefore			ACTi		Firmware	
				X	-		s	Channel ID Resolution		•		H264 • 15 • UNLIMITED •
					Motion Dete	ction Settings	Vie	deo Adjustme	nt	Web Configur	Bitrate rator C:	4M •
Login Account:	admin											s# 0

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



		_							Application	Hide Toolbar	Help About	2013/12/04 15:23:12	Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystic	k Log	Power	_	_	
			Basic									Camera List	
			01 New Cha	nel 2013/12,	04 15:23:1			Name	New Channel				
					I TA			IP Address	172.16.26.5		HTTP Port	1005	
			angrees - 1		E ST	0.2		User Name	admin		Password	•••••	
	Camera		and the second s		20						Get 0	Camera Settings	
All Came	eras (1)		4		and the second	1 12 702		Brand	ACTi		Firmware	A1D-500-V6.04.15-A	C
	New Channel							Model	E63		Serial Number	E63-A-XX-13C-0007	1
			and the second			2/1	SI	ream Mode	DUAL	*	Protocol	TCP	1 •
			- Andrew		\sim			Channel ID	1	-	Encoder	H264	*
				~>				Resolution	N2592x1944	*	Frame Rate	15	Ŧ
											Max Bitrate	UNLIMITED	-
											Bitrate	4M	*
					Motion Dete	ection Settings	Vid	eo Adjustme	ent	Web Configur	ator C	ancel Save	

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.



Add Camera (RTSP) Connect to Cameras via RTSP Protocol 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".

Basic Camera List Camera UN 2014/04/01 17:21:21 Name New Channel IP Address 172:16:26:98 URI / ? All Cameras (1) RTSP Pot Toro User Name				Application Hide To	olbar Help	About 2014/04	\$/01 17:21:21 Tue
Basic Camera List Camera II N. 2014/04/01 17:21:21 Name [New Channel] IP Address [172:16:26:98] URI / IV RTSP Pot T070 User Name [admin] Password Protocol RTP Over UDP IV	Home System Network	Camera Schedule Ev	rent Maintenance	User Joystick	Log l	Power	
	Camera All Cameras (1)	Basic	Name IP Address URI RTSP Port User Name Password	New Channel 172, 16, 26, 98 / 7070 admin	· · · ·		Playback



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.

Home	System	Network	Came	era	Schedule	Event	Maintenance	User	Joystick	Log Power		
			Aut	to-save	settings into c	ameras upon	connection					
		V	ID	Nam	Brand 👻	Model	IP Address	Channel ID	Encoder	Resolution	Fram	ne 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 selected (cameras?		
									ок с	Cancel		
in Account: a	admin									Add Duplic	ate	Delete ⊯ 1
								Applica			2013/	10/01 23:52:09 -
Home	System	Network	Cam	era	Schedule	Event	Maintenan	Applic: User		lbar Help About	2013/	10/01 23:52:09 '
Home	System	Network	r		Schedule settings into o						2013/	10/01 23:52:09 `
Home	System	Network	🗹 Au	ito-save	settings into (cameras upon	connection	User	Joystick	Log Power		
Home	System	Network	r	ito-save		cameras upon			Joystick			10/01 23:52:09 1 me Rate
Home	System	Network	ID Au	ito-save Narr	e settings into o Brand ACTi	cameras upon Model	connection IP Address	User Channel ID	Joystick Encoder	Log Power Resolution	Frai	
Home	System)	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
All Cam	Camera Reras (2))	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
All Cam	Camera Cameras (2) 1 Fisheye)	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
All Cam	Camera Reras (2))	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
a All Cam	Camera Cameras (2) 1 Fisheye)	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
a All Cam	Camera Cameras (2) 1 Fisheye)	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
a All Cam	Camera Cameras (2) 1 Fisheye)	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
a All Cam	Camera Cameras (2) 1 Fisheye)	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
a All Cam	Camera Cameras (2) 1 Fisheye)	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5	me Rate
a All Cam	Camera Cameras (2) 1 Fisheye)	ID 01	ito-save Narr Fi	e settings into o Brand ACTi	cameras upon Model E96	connection IP Address 172.16.26.85	User Channel ID 1	Joystick Encoder H264	Log Power Resolution N2048x1536	Fran 5 5	me Rate



Delete Cameras

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

								Applica			Help About	2013/10/01 23:59:13 T
Home	System	Network	Cam	era	Schedule	Event	Maintenance	User	Joystick	Log	Power	
			Au	to-save	settings into o	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	ras (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
o∏ 03	ACTi ACTi		07	A	ACTi	D52	172.16.26.45	2	H264		N1280x720	5
	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	ACTi		10	A	ACTi	D52	172.16.26.45	1	MJPEG		N1920x1080	15
80 🐨 🖸	ACTi ACTi											
	ACTI											
			I							Add	Duplic	ate Delete
n Account: a									_			e¥ 10

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 W	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	REAL		IP Address	172.16.26	6.85		HTTP Port	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		-	Eirmun	A1D-500-V6.04.15-AC	
	1 Fisheye		64				E96				E96A-XX-13H-00023	_
	2 Fisheye					Widde	1230			Senai Number	L 30A-AA-1311-00023	Setup
	3 ACTi 4 ACTi					Stream Mode	DUAL	-	•	Protocol	TCP	•
	5 ACTi					Channel IE	0 1	•	•	Encoder	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

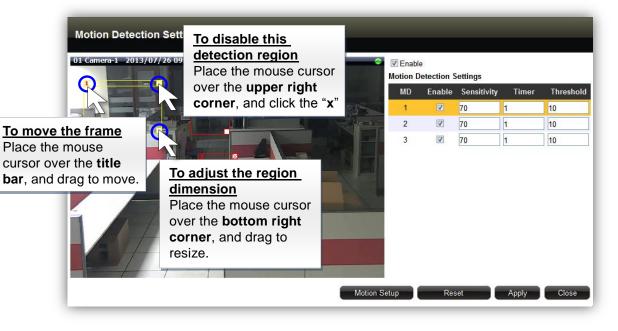


(B) Motion Settings

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.

Fisheye							Applica			<u> </u>	2013/10/02 00:06:13 V
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power	
			Basic								Camera List
			01 Fisheye	2013/10/02 0	0:06:14 🥥	Na	ame Fishey	e			
			1	ARE THE	4	IP Addr	ess 172.16	26.85		HTTP Port	80
				11 12		User Na	ime admin			Password	•••
	Camera			111						Get C	amera Settings
All Came	ras (10)			To U	107	Br	and ACTi		7	Firmware	A1D-500-V6.04.15-A
9 🌱 01	Fisheye			The Ball			del E96		-		E96A-XX-13H-00023
	Fisheye						200			oonar Hambor	230-24900-1311-00020
	ACTi ACTi					Stream M	ode DUAL		~	Protocol	TCP
- <u>-</u>	ACTi					Channe	I ID 1		-	Encoder	H264
	Domo1					Resolu	tion N2048	x1536 -	-	Frame Rate	5
	ACTi ACTi									Max Bitrate	2M
	ACTI										
	ACTi										
					_						
						Motion Detection	Video A	djustment	Web Co	nfigurator C	ancel Save
n Account: ad	dmin					-B-	-				⊯ A 10

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 🔵	Nar	ne Fisheye	e			
			15	APA TAK		IP Addre	s 172.16.	26.85		HTTP Port	80 2
	1			A1 121	We.	User Nar	ne admin			Password	amera Settinos
	Camera		lan-							Get (Camera Settings
All Came			-	ER HU	197	Bra	nd ACTi			Firmware	A1D-500-V6.04.15-AC
	Fisheye Fisheye			17-54 Pages		Moo	el E96			Serial Number	E96A-XX-13H-00023
									-		
	ACTi					Stream Mo				Protocol	
	ACTi					Channel		~	·	Encoder	H264 -
	Domo1					Resoluti	on N2048	x1536 -	r	Frame Rate	5 🔻
	ACTi ACTi									Max Bitrate	2M -
	ACTi										
						Motion Detection	Video A	djustment	Web Cor	nfigurator	ancel
Login Account: a	ıdmin						(⊯ # 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	blication Hide	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							Cam	nera List
			01 ACTi 20	13/10/02 02:4			-	ID	Name	Go to	Add	Delete
								1	Left	->	9	× 1
	1							2	Right	-	2	Playback
	Camera					-		3	Middle	÷	2	×
All Cam	and a state of the state					1		4			2	×
	ACTi					AR E		5		→	2	×
	2 ACTi			1200 at	-		5	6			2	× Setup
	3 ACTi 4 ACTi							7		-	2	×
	5 ACTI							8			2	×
	6 ACTi		The second				1	9		-	2	×
	7 ACTi							10			2	×
08 🐨 🧰	B ACTI							11		*	2	×
								12			2	X
								13		*	2	×
								14			2	×
								15		*	2	×
								16			2	×
Login Account:	admin											af 8

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.





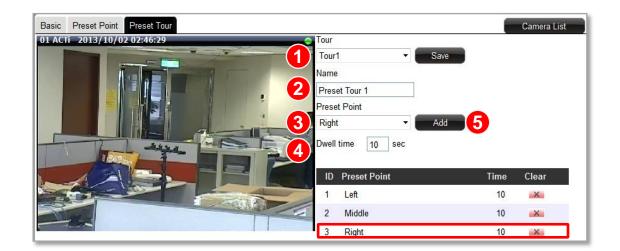
ID 1	Name Left	Go to →	Add	Delete	2. Save to a Preset Point
2	Right			×	On Preset Point list, select an ID, input the point name
3	Middle	3	2	×	
4		→	2	×	and click
5		_→	1	×	
6		→	2	×	
7		→	2	×	After a point is saved, click 🗾 next to its name to go
8		→	2	×	to this point
9		→	2	×	to this point.
10		→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

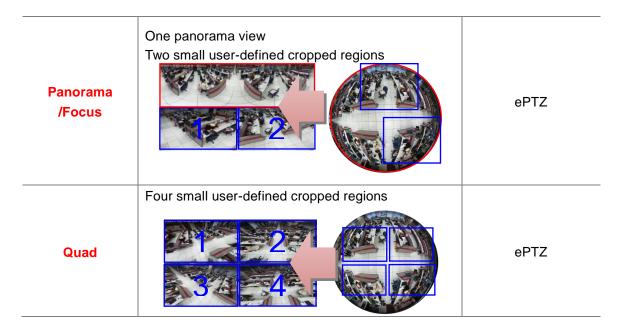
Select your **Mounting Type**, and then **Default Fisheye Mode**. For a fisheye mode containing panorama view, you may want to configure the **Default Rotate X** (width of view) and **Default Rotate Y** (height of view) configurations.



			_						_	Application Hide	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		
	10		515	CE			10	IF	Address	172.16.26.85	HTTP Port	80
	~		22		£		FR.	U	ser Name	Admin	Password	80
	Camera				i tria		100.1				Get C	amera Settings
All Came	ras (13)			-1.0	*		1		Brand	ACTi	Firmware	A1D-500-V6.04.15-AC
	Fisheye Overvi				1 3				Model	E96	Serial Number	E96A-XX-13H-00023
	Storage Room GNR3000							Stre	am Mode	DUAL	- Protocol	TCP •
	GNR3000		A COL				-	C	hannel ID	2	 Encoder 	H264 •
	E43		-1-1-1	-1+++		1-1-1+1+1-1	-++	R	Resolution	N640x480	✓ Frame Rate	5 👻
	E63 GNR3000		13-0	S- was	3	- and					Max Bitrate	UNLIMITED -
	GNR3000 GNR3000		TAN I				120				Bitrate	зм 👻
a 11	ACTi						Fi	sheye Display	Contraction (Contraction)			
1 2	GNR3000							Moun	ting Type	WALL	 Default Rotate X 	1.0 👻
	7F West Wing							Default Fish	eye Mode	PanoramaFocus	 Default Rotate Y 	1.0 -
	7F East Wing GNR3000								V	Absolute PTZ		
10	GINKJUU				_		-					
						Motion Detection Se	attings	Video	Adjustme	nt Web	Configurator Ca	ancel Save
	dmin			S.M.A.R	T. chec	king of this HE	D failed					e 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.

Home	System	Network	Camera	Schedule	Event	Maintena	ince U	ser J	oystick	Log	Power			
	0000 0		Pre-Event B	uffer(sec) 10	Post-Ev	vent Buffer(sec)	30							
			Recording S	chedule 🔍 📕	Full-Time R	ecording 🔘	Event R	ecording	🗇 📃 Eve	ent Speed	Up Recording	0	No Record	ling
				0 1	23	4 5 6	7 8 9) 10 1	1 12 1	3 14 1	5 16 17	18 19	20 21	22 23
	-		Mon											
			Tue							_				
	Schedule		Wed											
All Camer	ras (8)		Thu											
ේ 👼 01			Fri											
	ACTi		Sat											
	ACTi ACTi		Sun											
_ ~	ACTI		Event Handli	ng Schedule 🔍		landling 🔘		Handling						
06 🐨 🔤	ACTi			0 1	2 3	4 5 6	7 8 9) 10 1	1 12 1	3 14 1	5 16 17	18 19	20 21	22 23
	ACTi		Mon											
08 🐨	ACTi		Tue											
			Wed											
			Thu											
			Fri											
			Sat											
			Sun											
												Co	ру	Save
n Account: ad	den la													e¥ 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																								

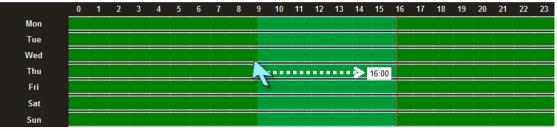
- 3. Click "Save"
- 4. To delete the recording configuration, select No Recording and drag on the desired section on time table.

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 111. By default, the event handling is full-time activated; you may disable it for a certain period.



Event Handling Schedule O 📕 Event Handling 💿 🔜 No Event Handling

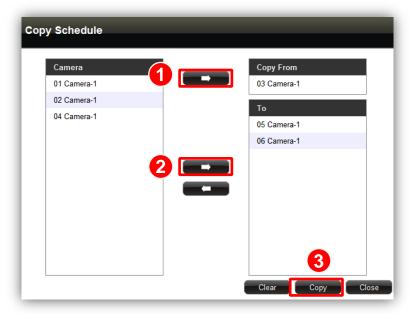


- 1. Click

 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 2013/1	0/02 03:33:08 Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
			Show warn	ing messages wh	ien system ev	vent occurs.						
)	Event		Response	e						
		/	Hard Disk								Set	Clear
	-											
												Clear
	Event											
	IR1200 System	Event										
All Came	eras (8) ACTi											
	ACTI											
	ACTi											
	ACTi		B									
	ACTI		שו									
■ 06 ■ 07	ACTi ACTi											
00 🖚 🔤												
			í l									
									_			
								Сору	C	lear All	Clear This	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	n Event		
Geep After Duration:Second(s) Times	3	Camera	1 Fisheye Overview 💌
Camera Go to Preset After Duration:Second(s) Then Go to preset	8 GNR3000	Camera DO After Duration:Second(s) Then DO	8 GNR3000 * DO1 On, DO2 On * 30 DO1 On, DO2 On *
To 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 *
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	N		
K Beep After Duration: Second(s)	1	🗇 🏬 Popup Instant Playbac Camera	k 1 Fisheye Overview 🔻
Times	3	🔳 🗻 Trigger DO	
Camera Go to Preset After Duration:Second(s) Then Go to preset	8 GNR3000 v 1 v 5 1 v	Camera DO After Duration:Second(s) Then DO	8 GNR3000 * DO1 On, DO2 On * 30 * DO1 On, DO2 On *
■ Send Mail To <u>■</u> *		Enlarge on Local Displ Camera Duration:Second(s)	ay 1 Fisheye Overview ▼ <u>5</u>
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 User Joystick Power System Event Resp Motion 1 Set Clear Motion 2 Beep Set Clear Motion 3 Beep Event DI 1 On Beep Clea ENR1200 System Event DI 2 On Clea Se ras (8) Network Loss 01 ACTi Clea Network Recovery Clea ACT ACT ACTi 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 103) 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 -

Beep

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 90) 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

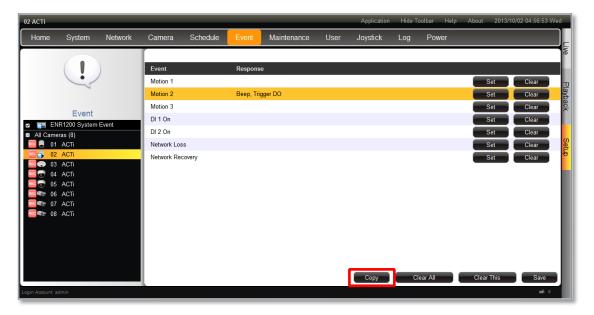
Local Live screen will display certain channel view in full screen for a while when the system is triggered. Select the camera whose live view will be enlarged on **Live** screen and the duration time.

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		
	Camera 02 Storage Room 1	1	Copy From 01 Fisheye Overview
	06 E43 07 E63		То
	11 ACTi	2	13 7F West Wing 14 7F East Wing
			3
			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	3/10/02 05:07:36	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	
	Event R1200 System	Event	DI 1 On								Set	Clear	
All Came		Lyon	DI 2 On		Beep						Set	Clear	
01 👵 💿	ACTi		Network Los	55							Set	Clear	
	ACTI		Network Re	covery							Set	Clear	
	ACTi ACTi												
	ACTi												
	ACTi												
	ACTi												
cita (1910)	ACTi												
								Сору	CI	lear All	Clear This	Save	

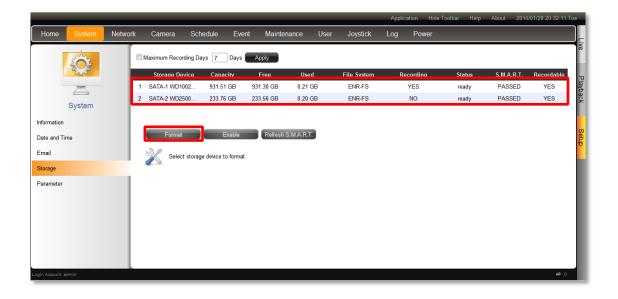
Please remember to click "Save" after deleting any rule.



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 18) 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 52.

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

- 1. 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 54.

						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_[yyymmdd].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.

							Application			
Home System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power	
Maintenanc		Name	.nvr) to restore se	ettings.			irowse			ive Playback
Storage Firmware Upgrade										Setup
Settings Backup/Restore Troubleshooting Language Adjustment										
									Backup	Restore
Login Account: admin										65 8

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

Do you want to save Backup_20130727.nvr (4.95 KB) from 172.16.26.184?	Save	•	Cancel	×	
					1



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 \rightarrow Maintenance tab \rightarrow Settings Backup / Restore.

							Application	Hide To	olbar Help	About	2013/10/02 06:15:50 Wed
Home System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
Maintenance	File Na		p_20130907.nvr	ttings.			rowse				Playback
Storage Firmware Upgrade Settings Backup/Restore											Sector Se
Troubleshooting Language Adjustment											
Login Account: admin									Ba	ckup	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 T	oolbar Help	About 20	013/10/02 06:18:25 Wed
Home	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power	_	
			Name	Descriptio	n							IVe
1	BIKK		Administrator	Full permis	ssion and sy	stem control					Edit	- 1
	User			Add Nev	v Grou	ıp		-				Playback
Group User				Name		Mana	ger]		Setup
Permission				Description	ı	Full P	ermissio	ns]		
								ОК	Cano	el		
									Ado	d Group	Add User	Save
Login Account: ac	dmin											# :

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 Wed
Home	System	Netwo	rk	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		_
			Group)	Manager		-						ive
	GIAR			Applicatio	n								
The second se			1	Live									P
L.			V	Playback									Playback
	User		V	Setup									8
Group				Remote									
													ရွှ
User		_											Setup
Permission													
										Ado	i Group	Add U	ser Save
Login Account: ac	Imin												64 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	System	Network	Camera	Schedule	Event	Maintenance	User	Joystick	Log	Power		
Group User Permission	User		Nam Pass Con Ema	sword firm Password	r	nail Nick Fadden Nick.F@acti.com					Edit	
Login Account: ad	min		_			0	ĸ	Cancel	Add	Group	Add User	Save

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 J
Zoom Out 1 Go to Preset 1 - Zoom In 2 Go to Preset 2 - Joystick 3 Go to Preset 3 - 4 Go to Preset 4 -
Logitech 9 Go to Preset 5 - IP Desktop 9 Go to Preset 6 - 7 Go to Preset 8 - 9 Go to Preset 9 - 10 Go to Preset 10 - 11 Go to Preset 11 - 12 Go to Preset 12 -

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	Camera S	Schedule	Event	Maintena	nce	User	Joystick	Log	Power		
1		● s	Show All Days Select Single Day 1013/10/01				V F	öystem temote ocal]0				
		ID	Date		Account	So	urce	Descriptio	n				
	Log	1	2013/10/	01 22:54:52	admin	Rer	mote	User login					
		2	2013/10/	01 08:10:07	admin	Rer	mote	Camera 1 i	s deleted				
		3	2013/10/	01 08:04:21	admin	Rer	mote	Camera 1 i	s added				
		4	2013/10/	01 08:03:24	admin	Rer	mote	Camera 15	is deleted				
		5	2013/10/	01 08:03:24	admin	Rer	mote	Camera 14	is deleted				
		6	2013/10/	01 08:03:24	admin	Rer	mote	Camera 13	is deleted				
		7	2013/10/	01 08:03:24	admin	Rer	mote	Camera 12	is deleted				
		8	2013/10/	01 08:03:24	admin	Rer	mote	Camera 11	is deleted				
		9	2013/10/	01 08:03:24	admin	Rer	mote	Camera 10	is deleted				
		10	2013/10/	01 08:03:24	admin	Rer	mote	Camera 9 i	s deleted				
		11	2013/10/	01 08:03:24	admin	Rer	mote	Camera 8 i	s deleted				
		12	2013/10/	01 08:03:24	admin	Rer	mote	Camera 7 i	s deleted				
												Export	Refresh
jin Account: ac	Imin												# # 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					
Dellaviors	settings, modify system information, modify network settings, modify user &					
	permissions, import language file					
	Login & logout, reboot / shutdown system,					
Remote	modify camera settings, modify event handling schedule/settings, upgrade					
User	firmware, format storage, backup / restore system configuration, modify recording					
Behaviors	schedule, modify time, modify e-mail server settings, modify system information,					
Denaviors	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 deleted </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="3">Camera 9 is deleted </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="6">Camera 9 is added </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="6">Camera 9 is deleted </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:49:50" ID="7">Backup system configuration </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 04:43:40" ID="7">Backup system configuration </Log>
        <Log Source="Local" Account="admin" Date="2013/09/07 00:48:40" ID="8">User login 

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

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.

6	
3 U	1/2 ▶

- 1. On Live screen, input the duration of each view next to $\buildrel U$.
- **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	2013/12/04 17:33:41 Wed
- View 1 1 View 2 View 3 View					Live
View View					Pa
- Camera 1 View					yback
I VZ Globage	Save View				
Contended Contended	ID Name		3		Setup
No. 66	Name		All		
06 E43 2013/12/04 17:30 55 No. 65 F64	\wedge	Reset	Save	Cancel	
06 E43 Control 17:30:16			3		
No. 64 06 E43 2013/12/04 17 29 59		and and and	. /		
N:: [∩] P/Z □ Preset Point 2 1 1 1 1 1 1 1 1 1 1		and a second	>	3	 1/1 →
					54 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

