

ENR-1000 User's Manual For V1.00.02 Firmware

www.acti.com

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,

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- 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.

European Community Compliance Statement

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 **End Users** who actually execute security tasks such as monitoring ongoing activities in the building, patrolling secured zones, searching video data and managing alarms with use of ENR surveillance system. The reader is expected to own not only the basic operation skills but permissions to access major functionalities, as the access rights are based upon different user roles defined by the **System Administrators**.

You may also check the product page <u>http://www.acti.com/ENR1000</u> for updates and documents.

Technical Support

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



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Introduction

Product Overview

ACTi ENR-1000 (hereafter referred to as ENR) is a compact, delicate and reliable 2-bay 4-channel standalone NVR for small-medium sized IP video surveillance system. It features a stable embedded Linux operation system and capabilities of supporting mega-pixel resolution H.264 streaming, an HDMI output for local display, full PTZ control, video motion detection, scheduled / event-triggered/ event speed-up recording, event management and synchronized playback, time/event-based playback search and video bookmarks. Its smart setup wizard and intuitive user interface allow the system installer enjoy effortless plug&play 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 experiences user-friendly web interface customized for browser-based operation.

ENR Server / Client Architecture

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

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 accessibilities of ENR functions.

•Local Client: In local camera site, the client user directly operates ENR Server by connecting the physical device to an HDMI monitor and a USB mouse.

•Remote Client: Over the TCP/IP network, the Remote Client communicates with ENR Server through HTTP Protocol. This client user will have to use a computer with Internet Explorer to access the ENR Server web interface, without the need of installing any client program beforehand. Logging in ENR Server is as simple as visiting a website.





Remote Client PC Requirements

ENR itself is a self-contained unit. The table below provides basic guidelines only for selecting proper hardware for the remote PC client.

PC Spec (*1)	Minimum Requirements	
CPU Processor	Intel Core 2 Quad 2.66 GHz	
RAM 4GB		
Network	Ethernet (1000 Base-T recommended)	
Operation System	m Windows 7 (all versions) (*2)	
Display Resolution 1080p		
Browser	vser Internet Explorer 9.0	

*1 PC Spec requirements are the same for 32-bit and 64-bit systems.

*2 Please make sure your operation system is fully patched with the latest service packs.



At A Glance

Front Panel



Rear Panel





Power Button & Reset Button

You can turn on/turn off the device with **Power Button**; with **Reset Button**, you may restore the device to factory default settings.

Turn On the Device

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

Turn Off the Device

As the device 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:



 On Live View screen, right-click to bring up Live View Menu, select Setup Menu → Reboot/ Shutdown tab, and click "Shutdown".



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

Reset to Factory Default

By resetting this device, all your system settings will return to factory default, while the previous recording files and system logs are still kept on storage disks. It is strongly

recommended that you back up previous settings with **Backup** function before

resetting to factory default.

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



After the device automatically reboots, the resetting process is done and you may log in.

you may release the Reset Button as the red light is off.

The device will enter the resetting process.

LED Indicators

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

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



Login & Logout

To log into ENR system for the first time, you will have to key in the account name and password in Login window. Please contact your system administrator for account and password information.

Log In

To enter Live View screen:

- 1. Click on screen to bring up the Login window.
- 2. Fill in the Account and Password fields. The window will remember the user account that last logged in to the system.



Log Out

On **Live View** screen, right-click anywhere to bring up the **Live View** menu, click the **U** icon.





System Overview

Main Screens Introduction

ENR system has two main screens:

•Live View screen, which you will immediately see after logging in. You may watch live streaming, operate the PTZ cameras, take live view snapshots, execute manual recording and access the **Setup Menu**.



●Playback screen, where you can search the recordings, view the playback, put video bookmarks and export the video.



Input Devices

IN ENR system, a USB mouse is the required input device to do all the operations on user interface. All the input devices, including USB mouse and USB keyboard are ready to use when you connect them to ENR via USB 2.0 ports. You may adjust the mouse's cursor speed via the path below: on Live View screen, right-click to bring up Live View menu \rightarrow Select "Setup Menu" \rightarrow click "System Settings" tab \rightarrow click "Mouse" or "Keyboard".

Virtual Keyboard Overview

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.



No	Description		
1	Aa -> Aa Press once to change a single input to uppercase.		
	Aa -> Aa Long press to set the default input mode in which typed letters are uppercase.		
2	Press once to switch to symbol characters page.		
3	Close onscreen the keyboard.		
4	Delete one character backwards.		
5	Confirm the input and close the onscreen keyboard.		
6	Space		



Monitoring

You can perform most live monitoring tasks on **Live View** screen. ENR may display all live channels on the screen, or 1x1 single channel in succession automatically.

Aside from keeping an eye on the video, you may also take snapshots, control PTZ cameras, start or stop manual recording on a selected channel. In this section, you will be given instructions on the said fundamental operations. To start, log on to the system first.

Live View Menu

Live View menu is a toolbar listing the most used functions required for live view operations and system setup.



You can always bring it up on Live View screen by right-clicking anywhere on screen.





No	Description
1	Layout Styles
	Click to switch layout styles
2	Single Channel Switch
	Click to switch to a specific channel in 1x1 layout
3	Take a snapshot
	The image of current live view layout will be saved as jpg format (at 720x480
	resolution) onto the USB mass storage. Please make sure the USB mass
	storage has already been connected to ENR device.
4	Patrol (only enabled on 1x1 screen layout)
5	Setup Menu
6	Playback screen
7	Logout

Change Live View Layout

ENR provides 1x1 and 2x2 layouts for monitoring.

Watch All Channels

2x2 layout is used by default. You may <u>double-click</u> on a specific channel to watch it in full screen, and double-click again to return to **2x2** layout.

Watch a Single Channel

On Live View menu, click to swtich to 1x1 layout. By clicking the Singe Channel Switch 1234, you may watch desitred channel in full screen.





Layout Patrol

By performing the **Patrol** function, all the four channels can be displayed by **1x1** layout in turns.

- 1. On Live View menu, click to swtich to 1x1 layout.
- 2. Click
- **3.** On **Patrol Time Setting** window, input the patrol interval (the maximum value is 999 seconds), and the click "**OK**".
- 4. To exit Patrol mode, click

	Patrol Tir	me Setting
	ОК	Cancel
Live □ Ti Corporation - EN 200		

Single Channel

On **Live View** screen, you may select a channel to perform below functions on a single channel:

- (1) Take a snapshot of this single channel
- (2) Start manual recording of this single channel
- (3) Enter PTZ operation mode



Single Channel Menu

To start, select a channel by mouse, and the channel menu will appear:



1 Take a Snapshot

The image (at original resolution size) of current channel will be saved as jpg format onto the USB mass storage, named as **yyyy-MM-dd-hh-mm-ss.jpg**. Please make sure the USB mass storage has already been connected to ENR device.



2 Start Manual Recording

This function is useful when you need to record a specific video when no event recording or schedule recording is proceeding. This video will be displayed as normal scheduled recording on the Playback bar. You will have to set a length for this recording, and ENR will automatically stop when the duration ends.



3 Reconnect this camera 4 Enter / Exit PTZ mode

This button is enabled when this camera supports PTZ function. You may enter PTZ operation mode by clicking this button to bring up the PTZ panel, and click it again to close the panel. (Please refer to **Operate PTZ Camera** on page 21 for PTZ operation instructions)

Note

To take a snapshot of **2x2** layout, please make sure your current layout is **2x2**, and then click **6** on **Live View** menu.

Acknowledge Channel Status

On **Live View** screen, it is essential to observe the system status events, since unexpected environmental factors or human behaviors may take place, and they might pose security threats to your site. The channel status icons display important camera status and motion alerts for you.

Channel Status

On top of each channel window displays certain status information of this device.



No	Description
1	Camera Name
2	Digital Input Motion Alert
	This will flash along with the channel outline border when the digital input device
	detects motion on camera site.
3	Video Motion Alert
	This will flash along with the channel outline border when the camera detects video
	motions on camera site.
4	Recording Status
	This will appear when ENR is recording this channel by schedule, event or user's
	manual control.



Operate PTZ Camera

On ENR **Live View** screen, you may also use the UI controls to perform PTZ navigation. The preset points move the camera to see pre-defined views; a preset tour is a combination of preset points, which can perform an auto-scan tour.

Open PTZ Panel

- 1. Click to select the PTZ camera channel, and then click 🕂.
- 2. The PTZ Panel will appear on bottom right.



No	Function
1	8 directional arrow keys:
	Click to pan or tilt the camera. (only available for cameras with Pan/Tilt/ capability)
2	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)



Zoom out (available for cameras with a controllable zoom)
Zoom in (available for cameras with a controllable zoom)
Near focus (available for cameras with controllable focus)
Far focus (available for cameras with controllable focus)
Start/Stop Preset Tour
Previous / Next 32 Preset Points
Preset Point ID:
Click to go to this point.

Go to a Preset Point

Click the preset point ID on 9

Start/Stop a Preset Tour



	Stop								
17	18	19	20						
21	22	23	24						
25	26	27	28						
29	30	31	32						

Close PTZ Panel

To exit PTZ operation mode, click +



Playback

Playback is the service that processes recorded video clips. You may search by time. by event or the bookmarks you have set. **Playback** may include up to 4 channels synchronized playback. Video clips may also be exported in either RAW or AVI formats.

On Live View screen, click **D** on Live View menu to enter **Playback** screen.

Search Video

Upon entering **Playback** screen, you will have to choose a search method to start searching. On **Playback Search** window are three search methods: **Time Search**, **Event Search** and **Bookmark** search.

Time Search

If you have known the specific time of the recording, you may start from choosing the precise, date and the hour.



1. Select **Time Search** tab, and specify the date. In the beginning, your current system time is selected.



Previous — month			Jan	uary_ 2	013		۲	— Next month	January 2013 🚔
monun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	monun	January
	31	1	2	3	4	5	6		February
						-			March
	7	8	9	10	11	12	13		April
	14	15	16	17	18	19	20		May
	21	22	23	24	25	<mark>26</mark>	27		June
	28	29	30	31	1	2	3		July
									August
	4	5	6	7	8	9	10		September
	_								October
	22	Recordin	g exists	22	No re	cording	exists		November
									December

Click Month or Year to choose exact value

2. As the date has been selected, choose the hour from the 24-hour time bar. The color represents the event type of the recording.



Color	Description
	Full-time or manual recording
	The camera's video motion detection function had been enabled, and the camera detected motion events during this period.
	The digital input device (e.g. PIR sensor) connected with the camera detected motion events during this period.
	ENR lost network connection with this camera during this period.

3. Click "Play" to start the playback.

Event Search

If you want to filter the recording by **Camera** or **Event Type**, you may perform an event search to locate the desired video clip.



			Pla	ayback	Search	I			
Time	Search	1	Even	t Search)		Bookmark	1	
Sea	rch Tim	ne 2013/01/23	0	4 🔽 : 🛛	00 🔽	Duration	4 hrs	¥	
1 Came	ra Sele	ct 🖌 1	Ŀ	2		3		4	
Ev	ent Typ	oe 🗹 Motion	Z	DI		🖌 Networ	k Loss		—
	↑ ↓	Page: 1					Sea	arch	(2)
	No.	Date				Event			
	1	2013/01/23 04:3	0:28	Camera	4 - Moti	on 1 Detec	ted		
	2	2013/01/23 04:4	7:41	Camera	4 - Moti	on 1 Detec	ted		
(3)	3	2013/01/23 04:5	5:43	Camera	4 - Moti	on 1 Detec	ted		
	4	2013/01/23 05:3	3:32	Camera	4 - Moti	on 1 Detec	ted		
	5	2013/01/23 05:5	3:46	Camera	4 - Moti	on 1 Detec	ted		
	6	2013/01/23 05:5	5:41	Camera	4 - Moti	on 1 Detec	ted		
	7	2013/01/23 06:2	4:24	Camera	4 - Moti	on 1 Detec	ted		
	8	2013/01/23 06:5	1:08	Camera	4 - Moti	on 1 Detec	ted		
	9	2013/01/23 06:5	2:58	Camera	4 - Moti	on 1 Detec	ted		
	10	2013/01/23 06:5	5:33	Camera	4 - Moti	on 1 Detec	ted		
						4	PI	ay	Cancel

- Select Event Search tab, and define the start time and a search duration (In the example below, ENR will search recording from 2013/01/23 04:00 to 08:00.) the Cameras and Event Type.
- 2. Click "Search".
- 3. On search result list, select an entry.
- 4. Click "Play" to start the playback.

Bookmark Search

If you have previously set bookmarks on certain video time spot, these bookmarks are listed here. For instructions on how to set a bookmark on video, please refer to **Set Video Bookmark** on page 30.

- 1. Select **Bookmark** tab, on bookmarks list, click an entry.
- 2. Click "Play" to start the playback.



		Playba	ck Search		
Time S	Search	Event Sear	ch	Bookmark	
	Bookr	narks			
	NO	Воо	kmark Time		
	1	2012/11/29 08:10:03			
(1)	2	2013/01/18 10:30:04			
	3	2013/01/18 10:30:04			
		De	4.172.16.2	6.60-TCM1111	
				2 Play	Cancel

Play Back Video

ENR will start playing back the video after you click "Play" on Playback Search window.





Current Playback Time

Current Play Speed

Playback Menu

On Playback screen, right-click anywhere on screen to bring up the Playback Menu.



No	Description
1	Layout Styles
	Provided layout styles are 1x1 / 2x2 screen
2	Single Channel Switch
3	Playback Controls
	< Reverse Play 📕 Pause 🕨 Play
	\pm Increase Play Speed Ξ Decrease Play Speed
4	Take a Snapshot
5	Add Bookmark
6	Playback Search window
7	Live View screen
8	Next Hour Vervious Hour
9	Time Bar
	From top to bottottom display timebars of Camera 1 ~ Camera 4 .
	The green indicator display current time position.

Video Playback Controls

When the video is playing, you may use the playback controls on **Playback** menu to find your interested spot.

Pause the playing

To pause the video playing, click ${
m I\hspace{-.1em}I}$. You may continue playing later by clicking ${
m I\hspace{-.1em}I}$.

Play the video

Click k to play the video. During the playback, you will see the current time on bottom of the screen is moving forward.

Reverse playback

Click \checkmark to play the video in reverse. During the playback, you will see the current playback time on bottom of the screen is moving backward.



Change play speed

Increase the play speed by clicking $\underline{-}$, and decrease the speed by clicking $\underline{-}$. The provided speed rates are $\frac{1}{2}x$, 1x, 2x, 4x, 8x, 16x and 32x. The current play speed will be shown on bottom of the screen $\underline{\otimes x1}$.

Change Screen Layout

2x2 layout is used by default, once you srtart playingg back, all the four channels will be played synchronisedly.

To watch a single channel playback, click on **Playback** menu to swtich to **1x1** layout. By clicking the **Singe Channel Switch 1234**, you may watch desitred channel in full screen.

If there is no recording of certain channel at the time position you select, the channel will appear blank while playback is proceeding.



Take a Snapshot

On **Playback** menu, click **O**, the image of current screen will be saved as jpg format (at 720x480 resolution) onto the USB mass storage. Please make sure the USB mass storage has already been connected to ENR device.

If you want to get a snapshot of certain channel in its full resolution size, select the channel and click



Export Video

You may export video of the selected channel to **.avi** or **.raw** file. The provided exported video duration is from 1 minute ~ 30 minutes.





- 1. Select a channel and click
- 2. Select the Export Duration and Export Type.
- 3. Click "Start"

The exported video will be saved onto the USB mass storage. Please make sure the USB mass storage has already been connected to ENR device and the available storage space is enough.

Set Video Bookmark

When the video is playing, you can set a bookmark on current playback time for later quick retrieval.

To set a bookmark, make sure the green indicator is on your desired time position, and then click



You may view or delete the saved bookmarked video spots in **Bookmark** list. To enter **Bookmark** list, click On **Playback** menu, and select "**Bookmark**" tab on **Playback Search** window.



System Log

The activities performed by logged-in Users are recorded on server as **System Log**. With the access permission to **Setup** (for how to change the user group permissions, please refer to the **User Group** section in <u>ENR1000 System Administrator Manual</u>), a user may view, search and export this record for analysis or investigation.

ENR keeps the system log of last 45 days on the storage disk. Both a local client user's and a remote client user's behaviors will be recorded

Client Type	Behaviors
	Login, Logout, Shutdown / Reboot the system
	Add / Delete cameras, Update camera configurations
	Update recording schedule
	Update User / Group permissions
Local	Upgrade the firmware
LUCAI	Backup / Restore system configurations
	Update event handling list
	Format hard disks
	Update system time, e-mail server configurations, system
	information, network settings
	Login, Logout, Reboot the system
	Update camera list / configurations
	Update recording schedule
	Update User / Group permissions
Remote	Upgrade the firmware
Kemole	Backup / Restore system configurations
	Update event handling list
	Format hard disks
	Update system time, e-mail server configurations, system
	information, network settings, and workspace parameters

To enter **System Log**, please right-click on screen to bring up **Live View** menu \rightarrow Select **"Setup Menu"** \rightarrow click **System Log** tab.

Search Log

To search the log of certain time period, select the date from **Log** dropdown list, the result list will immediately be refreshed. Each log entry will display [time + client type + behavior + user name].For example, this entry shows that the **Local** user logged in as **Admin deleted**.

Camera 4 at 2013/01/30 20:51:37.

14 2013/01/30 20:51:37 Loca camera 4 is deleted admin



Log	2012,	/01/30 ~ 2013/01/31 /11/07 ~ 2012/11/08 /11/08 ~ 2012/11/09	Description				
	2012,	/11/12 ~ 2012/11/13	System start up				
		/11/13 ~ 2012/11/14	Local user login(admin)				
		/01/30 ~ 2013/01/31	Local user logout(admin)				
	4	2013/01/30 20:16:03	Local user login(admin)				
	5	2013/01/30 20:16:17	Local user logout(admin)				
	6	2013/01/30 20:16:30	Local user login(John)				
	7	2013/01/30 20:20:21	Local user logout(John)				
	8	2013/01/30 20:20:35	Local user login(admin) Remote user login(admin) Remote update camera list(admin)				
	9	2013/01/30 20:33:33					
	10	2013/01/30 20:33:59					
	11	2013/01/30 20:51:09	Remote update recording schedule(admin)				
	12	2013/01/30 20:51:10	Remote update event handling schedule/settings(admin)				
	13	2013/01/30 20:51:10	Remote update camera list(admin)				
	14	2013/01/30 20:51:37	Local camera 4 is deleted(admin)				
	15	2013/01/30 20:58:02	Local update user(admin)				
	16	2013/01/30 20:58:02	Local update permission(admin)	2			

Export Log

You may export the system log of selected time period as .txt file onto the USB storage disk by clicking "**Export**".

20121	112 ~ 20121113 - Notepad	
File Edi	it Format View Help	
<u>በ</u> 2	2012/11/12 13:23:32	Local shutdown system(admin)
2	2012/11/12 13:35:13	System start up
3	2012/11/12 14:05:03	Local user login(admin)
4	2012/11/12 14:05:11	Local user logout(admin)
5	2012/11/12 14:05:19	Local user login(admin)
6	2012/11/12 14:05:37	Local camera 4 is deleted(admin)
7	2012/11/12 14:14:24	Local camera 4 is added(admin)
8	2012/11/12 14:14:46	Local camera 4 is deleted(admin)
9	2012/11/12 14:15:17	Local camera 4 is added(admin)
10	2012/11/12 14:15:26	Local camera 4 is deleted(admin)
11 12	2012/11/12 14:18:50	Local update user(admin)
13	2012/11/12 14:18:50	Local update permission(admin) Local update user(admin)
14	2012/11/12 14:19:15	
15	2012/11/12 14:19:15 2012/11/12 14:19:22	Local update permission(admin) Local user logout(admin) =
16	2012/11/12 14:19:22	Local user logout(admin)
17	2012/11/12 14:19:47	Local camera 4 is added(wen)
18	2012/11/12 14:21:30	Local camera 4 is deleted(wen)
19	2012/11/12 15:26:11	Local shutdown system(wen)
20	2012/11/12 15:43:05	System start up
21	2012/11/12 16:28:21	Local user login(admin)
22	2012/11/12 17:00:55	Local camera 4 is added(admin)
23	2012/11/12 17:20:51	Local update recording/event handling
24	2012/11/12 17:46:42	Local camera 4 is deleted(admin)
25	2012/11/12 17:47:22	Local camera 1 is deleted(admin)
26	2012/11/12 17:47:22	Local camera 2 is deleted(admin)
27	2012/11/12 17:47:22	Local camera 3 is deleted(admin)
28	2012/11/12 17:54:12	Local camera 1 is added(admin)
29	2012/11/12 17:58:10	Local camera 4 is added(admin)
30	2012/11/13 13:32:59	Local shutdown system(admin)
•		