

eneo NUMINA Server User's Manual



eneo NUMINA Server version 1.2.6 and later Manual version 1.2





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1. INTRODUCTION

1.1 About eneo NUMINA Server

eneo NUMINA Server software is a program that searches audio, video, and image transmission network devices (IP camera, video server, etc.) connected to the network, connects them, and saves the transmitted audio and video data onto the hard disk of the system where the software is installed. It can save up to 64 channels.

Saved audio and video data can be played back using Internet Explorer and eneo NUMINA Web Viewer, and users can play the audio and video data from the connected network devices in real time. Users can search and view recorded video and view live video of up to 16 channels with eneo NUMINA Web Viewer.

Users can adjust the system settings including audio and video settings of network devices, peripheral device settings and network settings.

Other systems with eneo NUMINA Server software can be connected.

1.2 System Requirements

- ♦ CPU Intel[®] Core[™] 2 Duo Processor or higher
- RAM 1GB or larger
- Network
 Ethernet (100 Mbit or higher)
- Graphics Adapter AGP or PCI-Express, 1024x768 or higher
- Hard Disk Space over 10 GB free
- Operating System Microsoft® Windows® XP or later
- Software Microsoft DirectX 9.0 or newer
- Web Internet Explorer 6.0 or later

1.3 Main Functions

- Save audio and video data from network camera connected to the security system
- Save up to 64 channels of audio and video data simultaneously
- Save schedules
- Assign camera group among network devices
- Network device settings
- Saved data search and playback with eneo NUMINA Web Viewer
- Screen output split mode (Layout) configuration and saving



- User management
- System log management
- Event log management
- Event pop-up screen
- Digital zoom
- PTZ control
- Bidirectional audio
- Various screen split mode (1, 4, 8, 16 split, Full-screen)
- Alarm Out control
- Search by date/hours
- Playback control
- Clip Export
- Snapshot/Print

1.4 Devices

The eneo NUMINA recording server supports not only own camera models but also ONVIF(Open Network Video Interface Forum) models.

The ONVIF conformant devices are list in the ONVIF web site (http://www.onvif.org)

1.5 Revision History

This document might be changed to support new and updated features of the software and devices.

Version	Date	Comment	eneo NUMINA version
1.0	2009-Nov-30	Initial version	1.2
1.1	2010-Jan-06	Clip Viewer	1.2.3
1.2	2010-Jun-14	ONVIF conformant devices	1.2.5



2. Installation

- 1) Insert the software CD into the CD-ROM drive of the PC, or run the installation program (Setup-NUMINA.exe) directly.
- 2) When the software installation wizard runs, click [Next] button and follow the wizard guide to install the program.
- eneo NUMINA Management Studio runs automatically when the program installation is completed



3. eneo NUMINA Management Studio

eneo NUMINA Management Studio is a software program to set eneo NUMINA Server and to register cameras and video servers connected to the network.

3.1 eneo NUMINA System

Select and run eneo NUMINA Management Studio from eneo NUMINA program group in the Start Menu of Windows.

3.1.1 Screen configuration

(1) Server List

Server list and server setting items and functions of eneo NUMINA System are displayed. Items shown on Server List are list of servers including service (localhost) and localhost. Service includes the properties of network port number settings for eneo NUMINA Service, Web Service, and FastCGI Service.

Localhost shows Record, Layout, User items of the system with eneo NUMINA Server program.

(2) Status List

Server List shows the status of each item and details for changing the setting values.



Con Yeam Dad	 (None	
Server Less NUMALA System By Service (local) C localhest (102, 162, 10, 4)	Service (local) & localhost 132 160, 90.4	
(1) Server List	(2) Status List	

Figure 1. eneo NUMINA Management Studio execution screen

1) Add server

The users can manage multiple systems with eneo NUMINA Server connected to the network by one eneo NUMINA Management Studio.

① Right-click on the Server List screen, and select Add Server from the pop-up menu.

📔 eneo NUMINA Management S	itudio
: <u>F</u> ile ⊻iew <u>H</u> elp	
Server List NUMINA System Service Add Server Iocalhost 192, 168, 90, 4	P Name Image: Service (local) Image: Imag

Figure 2. Add server



② Enter the eneo NUMINA System server information from the Server Information

screen. Enter IP address for Server Name, port number to connect to Internet for Server Port, and user name and password for Login Name/Password. If Save Password checkbox is checked and user name and password are correct, then it is not necessary to enter user Name and Password when connecting next time. Registered server name means the name of Server shown in the Server List. Users can add additional comments in the Description for convenience.

Server Information	ı 🛛 🔀
Login	
Server Address:	192.168.12.249
Server Port:	88
Login Name:	admin
Password:	•••••
	Save password
Server Information Registered server na 192.168.12.249	ime:
Description:	
Test	Save Cancel

Figure 3 Server Information

☑ Note

• Enter IP address for the Server Name of the server. ex) 192.168.90.4

2) Server Properties

Users can change the properties of the registered servers.

① Right-click on the registered server items (including localhost) in the Server List, and select Properties from the pop-up menu.



∶ <u>F</u> ile <u>V</u> iew	<u>H</u> elp	
Server List	7	
VIMINA Service Cocalho 192,168	(local) Connect to server Delete Properties Web	

Figure 4. Server Properties

② Change the properties of the connected server from the Server Information

screen.

3) Connect to server

Users can connect to the server to change or check the setting information of the eneo NUMINA Server registered in the Server List.

① Right-click on the server item registered in the Server List, and select Connect to server menu from the pop-up menu.

🧃 eneo NUMINA Manageme	nt Studio	
Eile ⊻iew <u>H</u> elp		
Server List NUMINA Service (local) Iocalhos 192,168, Delete Properties, Web,	Yer	

Figure 5. Connect server

② Service, Section, Layout, User, and Log items will be shown below the selected server when the server is connected normally.

4) Delete

Users can delete the servers from the Server List when there is no longer a need to manage the eneo NUMINA Server registered in the Server List.



① Right-click on the eneo NUMINA Server to delete from the Server List, and select Delete menu from the pop-up screen.

😼 eneo NUMINA M	lanagement Studio		
: <u>F</u> ile ⊻iew <u>H</u> elp			
Server List			
🝓 NUMINA			
🛛 🔚 Service (local)			
🕁 localhost			
192, 168, 90, 4		1	
	Connect to server		
	Delete		
	Properties	2	
	Web		
		-	

Figure 6. Delete server

② Clicking Yes from eneo NUMINA Server delete confirmation dialogue will remove the eneo NUMINA Server.



Figure 7. Delete server confirmation

5) Web

Users can search and playback the recorded video in real time with eneo NUMINA Web Viewer after connecting with Internet Explorer.

① Right-click on the eneo NUMINA Server to connect to the web from the Server List screen and select Web menu from the pop-up menu.



🖥 eneo NUMINA Manageme	nt Studio	
: <u>F</u> ile ⊻iew <u>H</u> elp		
§ Server List	P Name	
🙀 NUMINA	🔁 Service	
Service (local)	🔁 Section	
ia	Eayout	
😑 📴 Serv 🛛 Disconnect	🔁 User	
🐻 l Delete	🔁 Log	
Properties		
Web		
teroup		
E Layout 16 D/EW 4X4	n	
Layout-1 [VIEW 2X2]		
User		
u Log		
192, 168, 90, 4		
🖶 🔁 User La 🚨 User E Cog 192, 168, 90, 4		

Figure 8. Open Web Browser

② Internet Explorer will be launched and will try to connect to the address of the selected server.



Figure 9. eneo NUMINA Web Viewer



☑ Note

- Microsoft[®] Internet Explorer 6.0 or later version must be installed, and Internet Explorer must bet set to default web browser.
- Video will not play with a browser that does not support ActiveX.

3.1.2 Service (local)

Users can check and change the status of the service of the local system with eneo NUMINA Server.

- ① Select Service (local) item from the Service List screen,
- ② Then status of the Service will be shown as either Stop or Run.

🔋 eneo NUMINA Management S	tudio		
∶ <u>F</u> ile <u>V</u> iew <u>H</u> elp			
Server List 7	Name	Status	
NUMINA Service (local) Cocalhost Service Server Status Camera Status Section Section Layout Layout-16 [VIEW 4X4] Jayout-4 [VIEW 2X2] User Suser Solution User Section Jayout-4 [VIEW 2X2] Section Sect	Recording Service Port 11440 Web Service Port 68 FastCGI Service Port 5055	Started	Apply
Ready			CAP NUM SCRL

Figure 10. Service (local) status

In order to change the status of the Service to Stop or Run, right-click on the Service item and select Start or Stop from the pop-up menu.



Server List	P Name	Status	
NUMINA	aneo NUMINA	Started	1
localhost	Port 11440	Stop	
Gamma Server Status Gamera Status Camera Status Section Group	Web Service Port 88		
Layout-16 [VIEW 4X4]	PastCGI Service Port 5055		

Figure 11. Service (local) status change

In order to change the properties of the Service, change the properties and click Apply button.

🔋 eneo NUMINA Manag	jement S	tudio		
: <u>F</u> ile ⊻iew <u>H</u> elp				
Server List	4	Name	Status	
NUMINA Service (local) Cocalhost 192, 168, 90, 4		eneo NUMINA Recording Service Port Port Port 88 FastCGI Service Port 5055	Stopped	
Heady				CAP NUM SCAL

Figure 12. Change server properties

Properties of the Service include eneo NUMINA Service, Web Service, and FastCGI Service.



Enter the port number, click the Change button, and press OK button to apply the changed settings.

① eneo NUMINA Service is a connecting service to store video images transmitted from the cameras or video servers connected to the network, and the default port number is 11440.

② Web Service is used for the users on the network to connect to the system with eneo NUMINA Server using web browser, and the default port number is 88.

Ø Note

• Port number must be specified when connecting with Internet Explorer as shown below.

ex) http://192.168.90.4:88/, http://localhost:88/

③ FastCGI Service is a programming interface to improve the speed of CGI, which is a method for calling application programs in the web server, and the default port number is 5055.

3.2 eneo NUMINA server (localhost)

This is for setting the system with eneo NUMINA Server. When the status of Service (localhost) is Run, right-click on Server item registered to eneo NUMINA System, and select Connect to server menu from the pop-up menu.



Figure 13. Connect to server

Service, Section, Layout, User and Log items will be displayed when connection to the server is normal.

① Service shows the status of eneo NUMINA Server, and recording status can be changed.

② Section is for setting channels of network cameras and video servers as well as harddisk drive to store the video.



- ③ Layout is for configuring screen split mode.
- ④ User is for registering users.
- ⑤ Log is for checking system logs and event logs.

🔋 eneo NUMINA Management S	tudio 📰 🗖 🗌 🛛 🖸
∶ <u>F</u> ile <u>V</u> iew <u>H</u> elp	
j Server List 7	Name
Service (local) Jocalhost Service Service Service Server Server Status Camera Status Section Section Section	i≥ Service i≥ Section i≥ Layout i≥ User i≥ Log
■ Ser ■	
Ready	CAP NUM SCRL

Figure 14. Connect to server

3.2.1 Service – eneo NUMINA server

1) eneo NUMINA Server

There are three sub items under the Service item. eneo NUMINA Server item shows the status of server, Started or Stopped. There are 4 options of status, Start All, Stop All, Start Recording, and Stop Recording. The Major functions of eneo NUMINA are recording and relaying multimedia streams from the network devices. The Start All menu is for setting the both functions as running. The Start Recording menu is for setting the recording function as running and disabling the relaying.



Eile ⊻iew <u>H</u> elp			
Server List	📮 Name	Status	
🙀 NUMINA	Server	Started	
Service (local)	Server Status		
🛓 🐺 localhost	🖕 Camera Status		
🛓 🔄 Service			
- C Server			
🛛 📰 Server Status			
🔄 🔚 🙀 Camera Status			
🚍 🔁 Section			
💼 🛅 Group			
🚊 🔁 Layout			

Figure 15. eneo NUMINA Server Status

2) Server Status

The Server Status item shows the system information and status of usages, CPU, Memory, Network and HDDs.

🔋 eneo NUMINA Management Si	udio	
: <u>F</u> ile ⊻iew <u>H</u> elp		
Server List 7 NUMINA Service (local) Iocalhost Server Server Status Camera Status Section Section Section Layout-16 [VIEW 4X4] Iayout-4 [VIEW 2X2] User User Sec 192, 168, 90, 4	Server Status Service Recording server: Run CPU CPU usage: 8 % Memory (Physical) Memory usage: 52 % 1070 / 2046 (MB) Network 도컬 명덕 면클 2(1000 Mbps): 2.04 %	
Ready	CAP N	UM SCRL

Figure 16. Server Status

3) Camera Status

The Camera Status item shows the camera information, Model, Name, IP address and video codec, resolution, framerate and bitrate.



Server List #	Canal a car			
NUMINA Service (local) localhost Service Server Server Server Status	Model: Name: Address: Activate: Video Codec: Resolution: fps: BPS:	2MegaPixel 192.168.91.201 Connection 104 Hi264 1280 X 720 30 \$23367	Model: Name: Address: Address: Video Codec: Resolution: fps: BPS:	2MagaPixel 192.588.91.201 Connection ©# MOPEG 640 X 480 30 767512
Section Section Section Camera Status Section Layout Layout Layout-16 [VIEW 4X4] User User User User Is2, 168, 90, 4	Model: Name: Address: Address: Address: Address: Besciution: fps: BPS:	21/40g2P0xel 192.196.91.201 Connection 10# M.264 640 X 480 30 126600	Model: Name: Address: Address: Address: Video Codec: Resolution: fos: BPS:	21/aga=25xal 192.168.91.201 Geneetien 15* H.264 320 X 240 30 61588
	Model: Name: Address: Address: Address: Address: Video Codec: Resolution: fos: BPS:	Video Genvar 192.166.91.211 Connection 50* M.264 704 X 480 31 239922	Model: Name: Address: Activate: Video Codec: Resolution: Fos: BPS:	Video Berver 192:168-91-211 Connection 16* MJPEG 640 X 480 21 678510
	Model: Name: Address: Address: Address: Address: Video Codec: Resolution: fos: BPS:	Video Berver 192.168.111.198 Connection 104 H.264 704 X 480 30 353362	Model: Name: Address: Activate: Video Codec: Resolution: fos: BPS:	Video Server 192.168.111.198 Connection 15* MJPEG 704 X 480 19 527982

Figure 17. Camera Status

☑ Note

• Configure camera to get video, HDD to store, and storage schedule in Section before starting eneo NUMINA Server

3.2.2 Section - Group

Change the status of Service – eneo NUMINA Server to Stop to change the settings in Section. Users can select channels of network camera and video server to get the video to store in eneo NUMINA server, HDD to store video, and set the storage schedule.

Users can set two groups with eneo $\ensuremath{\mathsf{NUMINA}}$ Management Studio.

1) Adding a group

① Right-click on Section item, and select Add group from the pop-up menu.



Server List 7
NUMINA Service (local) localhost Service Server Server Status Camera Status Section Cameras (8) HDD Schedule Layout Layout-16 [VIEW 4X4] layout-4 [VIEW 2X2] User User Log 192, 168, 90, 4

Figure 18. Add a group

② Enter name of new group from the New name dialogue.

Ņ	lew name		×
	Gate #01 Group		
		ОК	Cancel

Figure 19. Add Group - Edit Group Name

2) Changing group name

① Right-click on the group to change the name, and select Rename menu from the pop-up screen.



: <u>File View H</u> elp		
Server List	P Name	
	😭 Cameras (8)	
📕 🛃 Service (local)	HDD	
🛓 🐱 localhost	😁 Schedule	
🚊 🔁 Service		
🔤 🚟 Server Status		
Camera Status		
E Section		
Delete Group		
Haname Gro	up	
Schedule		
Layout-16 [VIEW 4×4	18	
lavout-4 [VIEW 2X2]		

Figure 20. Rename Group

② Enter new name of the group in the Rename dialogue, and click OK button.

Rename		×
group		
	ОК	Cancel

Figure 21. Rename Group - Edit Group Name

3) Deleting a group

Right-click on the group to delete, and select Delete group menu from the pop-up screen

🔋 eneo NUMINA Management S	tudio	
∶ <u>F</u> ile <u>V</u> iew <u>H</u> elp		
Server List 4	Name	
🙀 NUMINA	Cameras (8)	
- 🛃 Service (local)	HDD	
🖨 🐨 localhost	Schedule	
Service		
Server Status		
📖 🙀 Camera Status		
😑 🛅 Section		
😑 📴 Group		
H Bename Group		
Schedule		
📮 🔄 Layout		
Layout-16 [VIEW 4X4]		
layout-4 [VIEW 2X2]		
Ser Ser		
5. 5		

Figure 22. Delete Group



3.2.3 localhost – Section – Group – Cameras

Up to 32 video channels can be registered in a group.

1) Registering a camera

① Right-click on Cameras item in group, and select Discovery/Add menu from the pop-up menu.

eneo NUMINA Management	Studi	0				
Elle Yew Help						
Server List		Name	Address	RTSP port	HTTP port	MAC
a NUMINA	_	# 1 2MegaPtxel10007D8018213	192, 168, 91, 201	7070	80	0007D801B213
- Es Service (local)		2 2MegaPtxel/000708018213	192, 168, 91, 201	7070	80	0007D801B213
= - to localhost		# 3 2MegaPtxel1000708018213	192, 168, 91, 201	7070	80	0007D801B213
🚊 🦾 Service		# 4 2MegaPixel/0007D8018213	192, 168, 91, 201	7070	80	0007D801B213
B Server		6 Video Server 00070810120C	192, 168, 91, 211	7070	80	0007D810120C
Server Status		6 Video Server 00070810120C	192, 168, 91, 211	7070	80	0007D810120C
Carnera Status	1	# 7 Video Server ACDE490D0501	192, 168, 111, 198	7070	60	ACDE49000501
Section		6 Video Server ACDE490D0501	192, 168, 111, 198	7070	80	ACDE49D00501
😑 🖾 Group						
📻 💽 Cameros (8)	_					
HDD Disc	overy	/ Add				
Schedule						
B layout						
Layout-16 [VIEW 4%	41					
layout-4 [VIEW 202]	£ 1					
😑 🖾 User						

Figure 23. Discovry/Add Cameras

② From the Discovery/Add screen, search the cameras and video servers connected to the network either manually or automatically, enter the information, and click the Save button.

③ From the Add tab screen, enter Name and IP Address in Camera Information and select Connection (TCP/UDP). Enter User, Password, HTTP(S) port number in Login Information. Select whether to enable https connection in Enable HTTPS.

NUMINA Server.



🖻 🕎 Cameras	P Address MAC Addre Firmware	18
- 👾 2MegaPtxel		
- 👾 2MegaPtxel	Model: HPCG-C1AAW4N10	
2MegaPtxel	HPCG-C., HPCG-C1AAW4, 192,168,12,179 AC:DE:48:D., 0,0,3-Ifsec	
2MegaPtxel	HPCG-C., HPCG-C1AAW4, 192,168,12,205 D2:15:5E:7F., 0,0,3-ifsec	
- 📯 Video Server	HPCG-C.,, HPCG-C1AAW4,, 192,168,12,194 AC:DE:48:D,, 0,0,3-ifsec	
- Video Server		
Video Server	Model: NXC-1302M	
Video Server	NXC-130, NXC-1302M000, 192,168,90,210.00:07:08:01: 1,2,1	
	CH 1 NXC-1302M000 192,168,90,210 00:07:D8:01: 1,2,1	
	CH 2 NXC-1302M000 192,168,90,210 00:07:D8:01: 1,2,1	
	CH 3 NXC-1302M000 192,168,90,210 00:07:D8:01: 1,2,1	
	CH 4 NXC-1302M000 192, 168, 90, 210, 00:07:08:01: 1, 2, 1	
	Model: ONVIF Device	
	Contraction of the second s	1
	T : - ch1 HPCG-C1AAW4 192,168,12,179 AC:DE:48:D 0,0,3-Ifsec	
	L ch1_, HPCG-C1AAW4, 192,168,12,179 AC:DE:48:D, 0,0,3-Ifsec	
	ONVIE D., HPCG-C1AAW4, 192,168,12,205 um:uuid:d2, 0.0.3-Ifsec	
	L ch1HPCG-C1AAW4192.168.12.205.D2:15:5E:7F0.0.3-ifsec	
	Discourse (Add/Modifi 2	0
	> Discovery / Hourmouny /	

Figure 24. Discovery/Add Cameras

Note Enter Camera Information accurately. IPv6 is not supported. Enter the address in IPv4 format as below. ex) 192.168.90.123 It is recommended to register with user information with administrator privilege in Login Information since peripheral devices such as PTZ and alarm out are controlled through

④ When Discovery tab is selected, devices connected to the network are

searched and details of network cameras video servers such as name, channel number, IP address, MAC address, Model, and Firmware version information are displayed. Select the camera channel to manage with eneo NUMINA Server system and click Save button. Cameras with ¹ icon means that the camera channel is not registered.



Cameras Image: Cameras	Camera Information Name	
2MegaPixel 2MegaPixel 2MegaPixel Video Server Video Server	Address UDP	
Video Server	User Password HTTP(5) port 80 Enable HTTPS	
¢	Discovery Add/Modify /	

Figure 25. Add/Modify Cameras



2) Change IP address in discovery

You can change the network IP address of the detected network device from Discovery screen.

① Right-click on the camera in the list, and select Assign new IP address menu from the pop-up menu.



🔮 🙅 Cameras	: 19	Name	IP Address	MAC Addre	Model	Firmware	1
2MegaPtxel	0	Uideo Server	192, 168, 12, 244 192, 168, 1	AC:DE:48:D Assign new IP	address,.,	5,8-sample 5,8-sample	
2MegaPtxei	10	L CH 2 (M	192, 168, 12, 244 192, 168, 12, 220	AC:DE:48:D AC:DE:48:D	Video Server),5,8-sample),7,2-pp	
Video Server	10	L CH 1 (H	192, 168, 12, 220	AC:DE:48:D AC:DE:48:D	Video Server Video Server	0.7.2-pp	1

Figure 26. Assign new IP address

② Enter new IP address from Assign IP address screen and click Assign button.

s 🚺
-
MPEG4
MPEG4
0007D8012150
192.168.1.14
Assign Cancel

Figure 27. Assign IP Address

3) Change camera information

You can change the information of the registered camera.

① Select Add tab, and select the camera to change the setting from the camera tree screen.

② Camera Information and User Information items of the selected camera will be displayed.

③ Modify items and click the Modify button.



Cameras 2MegaPixel	Camera Informatio	n .
2MegaPixel 2MegaPixel 2MegaPixel 2MegaPixel	Name Address	2MegaPixel 192.168.91.201
Video Server	Connection	TCP.
Video Server	Login Information	admin
	Password HTTP(S) port	
		Enable HTTPS
	Discovery Add	I/Modify /

Figure 28. Modify Camera Information

 $\textcircled{\sc 0}$ Click the Close button to finish the camera setting.

4) Delete camera

① Right-click on the camera to delete and select Delete menu.

Elle Yew Help						
Server List	4	Name	Address	RTSP port	HTTP port	MAC
V NOMINA	10	# 1 2MegaPixel	192, 168, 91, 201	7070	80	000708018213
E Service (local)		Gef 2 2MegaPixel	192, 168, 91, 201	7070	80	000708018213
s 3 localhost		Q 1 3 2MegaPtxel	192, 168, 91, 201	7070	80	000708018213
B Service		Ge# 4 2MegaPixel	192, 168, 91, 201	7070	80	000708018213
- B Server		# 5 Video Server	192, 168, 91, 211	7070	80	0007D810120C
Server Status		# 6 Video Server	192, 168, 91, 211	7070	80	000708101200
Camera Status		Ge# 7 Video Server	192, 168, 111, 198	7070	80	ACDE490D050
🗟 😂 Section		# 8 Video Server	192, 168, 111, 198	7070	80	ACDE490D050
⊖ Group ⊖ Group ⊖ Cameras (8) - ⊕ 1 2Meg	aPtxe					
- 👾 # 2 2Meg	jaP (Delete Camera				
- 👾 # 3 2Meg	jaP 🚦	Setup Camera				
- 👾 / 4 2Meg	aPixe					
- 👾 / 5 Video	Servi					
📿 # 6 Video	Serve					
- 👾 # 7 Video) Servi					

Figure 29. Delete Camera



② Clicking Yes in the delete confirmation dialogue will delete the registered camera information.



Figure 30. Delete Confirmation



5) Setup camera

You can change or check the settings of registered camera through the web.

① Right-click on the camera that you to change or check the settings, and select Setup menu from the pop-up menu.



Elle Yew Help						
Server List	4	Name	Address	RTSP port	HTTP port	MAC
VI NOMINA	10	# 1 2MegaPixel	192, 168, 91, 201	7070	80	000708018213
E Service (local)		Go # 2 2MegaPixel	192, 168, 91, 201	7070	80	000708018213
s 🕹 localhost		A 3 2MegaPixel	192, 168, 91, 201	7070	80	000708018213
🚊 🔛 Service		+ 4 2MegaPixel	192, 168, 91, 201	7070	80	000708018213
B Server		G I 5 Video Server	192, 168, 91, 211	7070	80	0007D810120C
- Server Status	0.0	G # 6 Video Server	192, 168, 91, 211	7070	80	0007D810120C
Camera Status		# 7 Video Server	192, 168, 111, 198	7070	60	ACDE490D050
🖹 😂 Section		6 Video Server	192, 168, 111, 198	7070	80	ACDE490D050
⊟ Group ⊟ Q Cameras (8)						
₩ # 2 2Me	gaP I	Delete Camera				
-\\\# 3 2Me	gaP 🔡	Setup Camera				
- 4 4 2Me	gaPixe					
- W S Vide	o Servi					
1 # 5 Vide	o Servi					
- We & 1 Aide	o servi					

Figure 31. Setup Camera

② You can change the settings of the selected camera through web service.

3.2.4 HDD

You can assign a hard-disk drive for saving the channel assigned to the camera

1) HDD allocation

① Select HDD items in group will display HDD connected to the system in Status List. Disk drive, total capacity, available space, and used space are displayed in Status List, and usage of HDD is shown as Allocated, Invalid Record, or Not.

- Allocated: Disk set to save video/audio data

- Not: Disk not set to save video/audio data

- Invalid Record: Disk is set to save video/audio data but the files cannot be saved due to some problems in the disk, and the disk can be used after running Allocate or Reallocate.



Server List	•	Drive	Total (GB)	Available (G8)	Used (GB)	Status	
NUMINA	A R L	"C:₩	97,67	9,95	87,72	Allocated	
Service (local)		_ ∎0 :₩	135,16	80,38	54.78	Not	
Schedule	1.0	DD Usage					
B S Layout		Once	© Ove	rvette			

Figure 32. HDD Status

② Right-click on the disk to save video/audio data from the camera in the group from the Status List, and select the Allocate Record Storage from the pop-up menu. Select Allocate Record Storage, then the status will be changed to Allocated.



	97,67	9,95	81,72	Allocated	
I Calow	135,15		1 M A 1999	8 F	
		80,38	54,78	NOT	
		1	Allocate He	cord Storage	
HDD Usage					
Once	() Över	write			
	HDD Usage O Once	HDD Usage O Once O Over	HD0 Upage O Once O Overweite	HDD Usege O Once O Verwitte	HDD Upage C Once © Overwrite

Figure 33. Allocate Record Storage

③ You can select the method of using the disk in HDD Usage.

- When set to Once, recording will stop when there is no more free space.

- When set to Overwrite, earliest recorded files will be overwritten and recording continues when there is no more free space.

2) Deallocate Record Storage

① In order to stop using the HDD for storage space, right-click on the Allocated HDD, and select Deallocate Record Storage menu from the pop-up menu.

t Stu	idio					
7	Drive	Total (GB)	Available (GB)	Used (GB)	Status	
~	⊠ 📥 C:₩	97,67	9,95	97 72 Double of D	Allocated	
	□ _ D:₩	135,16	80, 38	Deallocate Reci	ord Storage	
				Reallocate Reci	ord Storage	
			<u>, 10</u>			
	≠ Stu	t Studio Drive		P Drive Total (GB) Available (GB) Image: C:₩ 97,67 9,95 Image: C:₩ 135,16 80,38	t Studio P Drive Total (GB) Available (GB) Used (GB) P □ C:₩ 97,67 9,95 97 77 Deallocate Rec Reallocate Rec	P Drive Total (GB) Available (GB) Used (GB) Status Image: C:₩ 97,67 9,95 97,72 Allocated Image: D:₩ 135,16 80,38 Deallocate Record Storage Image: Reallocate Record Storage Reallocate Record Storage





② Selecting Yes from the delete confirmation dialogue will change the HDD Status to Not, and all audio/video data on the disk will be erased.

eneo NUMINA	×
Are you sure that you want to remove record fo	older?
예(Y) 아니오(N)	

Figure 35. Deallocate Record Storage Confirmation



3) Reallocate

① You can use the Reallocate menu to delete the saved files in HDD to secure more free space. Right-click on the Allocated disk drive in HDD Status List, and select Reallocate menu from the pop-up menu.

🖥 eneo NUMINA Managem	ient St	udio					
: <u>F</u> ile <u>V</u> iew <u>H</u> elp							
Server List	ą	Drive	Total (GB)	Available (GB)	Used (GB)	Status	
🝓 NUMINA	~	⊠C:₩	97,67	9,95 r	87 72	Allocated	
🔚 🔤 Service (local)		□ _ D:₩	135, 16	80, 38	Deallocate	Record Storage	
🖨 🔂 localhost					Reallocate	Record Storage	
😑 🖾 Service				Ľ	di la constante de la constante		
🐻 Server							
Server Status							
🗆 🖙 🖓 Camera Status							
🖨 🔁 Section							
🚊 📴 Group							



② Selecting Yes in initialization confirmation dialogue will delete the files saved



on the disk.

eneo NUMINA
Are you sure that you want to initialize record foloer
예(Y) 아니오(N)

Figure 37. Reallocate Record Storage Confirmation



3.2.5 Schedule

You can set the channel-saving method configured in Cameras to Event saving or Normal saving depending on the Schedule setting. Event saving saves the video from the camera during the event periods including pre-event period (up to 30 sec) and post-event period (up to 30 sec) when an event occurs within the specified period, and Normal saving saves all data during the period specified by the Scheduler. Weekly scheduling is supported.

1) Schedule setting

① Select Schedule items in group. Select the camera to set the schedule from the camera list in the group.



Server List	and a contract the	
 NUMNA Service (local) Jocalhost Service Server Server Status Camera Status Group Cameras (8) 1 2/MegaPtxel 2 2 MegaPtxel 2 3 2MegaPtxel 2 4 2/MegaPtxel 4 5 Video Serve 5 Video Serve 4 8 Video Serve 8 Video Serve 8 Video Serve 8 1000 	 ♀ 1: 2MegaPixet ♀ 2: 2MegaPixet ♀ 3: 2MegaPixet ♀ 4: 2MegaPixet ♀ 5: Video Server ♀ 6: Video Server ♀ 7: Video Server ♀ 8: Video Server 	Sun Man. Tue Wed Thu Fri Sat. 00 01 02 03 04 05 05 06 07 08 09 10 11 12 13 14 15 16 15 16 17 18 19 30 21 22 23 Normal Recording □ None
Schedule		

Figure 38. Schedule

② Select the time in weekly Schedule screen. You can select multiple cells simultaneously by clicking and dragging over the timetable. You can select saving method through New schedule menu with left-click, or no saving with Clear menu.






Figure 39. New Schedule

③ You can choose Record Type and whether to record audio through New schedule

menu in Schedule Settings screen. Selecting Always will save all data during the specified period, and selecting Event will save the data during an event configured if the camera exists when an event occurs. If Enable Record Audio is checked, audio data will be saved together with video depending on the selected recording method.



Schedule Settings	X
Record Type Normal Recording Event Recording	
Audio	
	OK Cancel

Figure 40. Schedule Settings

④ Click Apply All button and click Yes in the confirmation dialogue, and the current Schedule setting items will be applied to all cameras in the group.

amera this schedule?
D

Figure 41. Schedule Apply All



3.2.6 Layout

You can choose various screen split mode (4/8/13/16) and set the camera channels for each screen mode.



1) Add Layout

① Right-click on Layout item and select Add Layout from the pop-up menu.

and the second se		

Figure 42. Add Layout

② Select the type of layout to add to Layout screen and enter the name.



Layout	×
Select Layout VIEW 2x2 VIEW 8 VIEW 13 VIEW 4x4	
Name	OK Cancel

Figure 43. Layout

 $\ensuremath{\textcircled{3}}$ Select the Layout added to Layout items, select the camera registered to the

group, and drag and drop it to the desired screen area.

Elle Yew Help		-		
Server List	4 Layout-16			
Service Server Server Server Status Camera Status Section Section Secton Secto	CH: 0 Name: 2MegaPixel Address: 192,168,91,201	CH: 1 Name:Video Server Address: 192,168,91,211	CH: 2 Name: Video Server Address: 192,168,111,198	CH: 3 Name: Video Server Address: 192, 168, 111, 19
	EH: 4 EH: 4	CH: 5 Name: Address: 192, 168, 91, 201	СН: 6	СН: 7
Generation of the service of the ser	NE CH: 8	CH: 9	CH: 10 Name: 2MegaPixel Address: 192,168,91,201	СН: 11
Layout-15 [VIEW 4x4] User User Log 192,168,90,4	CH: 12	Сн: 13	Сн: 14	CH: 15 Name: 2MegaPixel Address: 192, 168, 91, 201





2) Rename

① Right-click on the name of the registered layout and select Rename menu to change the name.

 2 2MegaPixel 3 2MegaPixel 4 2MegaPixel 4 5 Video Serve 		Address: 192, 166, 91, 201		
# # 0 video Serve # 7 Video Serve # 8 Video Serve # HDD Schedule = Layout	CH: 8	CH: 9	CH: 10 Name: 2MegaPixel Address: 192, 168, 91, 201	CH: 11
User Log 192,168,90,4	ayout • Layout,	CH: 13	CH: 14	CH: 15 Name: 2MegaPixel Address: 192, 168, 91, 201
Ready				CAP NUM SCRU

Figure 45. Rename Layout

② Enter name of new Layout in Rename screen.

Rename	
New layout	
	OK Cancel

Figure 46. Enter Layout Name

3) Delete Layout

① Right-click on the registered layout and select Delete layout menu from the pop-up menu to delete it.

# * 2MegaHb # 5 Video Ser # 6 Video Ser # 8 Video Ser # 8 Video Ser # 8 Video Ser # 8 Video Ser # 100 Schedule = Eayout Layout-16 [VIEW 404	rvé rvé rvé Name: rvé Address: 192, 168, 91, 211	CH: 3 Name: Video Server Address: 192, 168, 111, 198
B-B User	Delete Layout	
🔓 User	Rename Layout	
a log ↓ 192, 168, 90, 4	~	
<	>	
Ready		CAP NUM SCRU

Figure 47. Delete Layout



② Clicking Yes in the Layout delete confirmation dialogue will delete the layout.



Figure 48. Delete Layout Confirmation

3.2.7 User

You can manage the users of eneo NUMINA Web Viewer and eneo NUMINA Management Studio programs. There are two user levels, administrator and user levels. The user level authority may be limited by the configuration, Live View and Search & Playback. The user name and authority of admin is not configurable.

1) Add User

① Select the User item in the Server List, and click the Add user menu from the

pop-up screen.



Figure 49. Add User

② At the Add User dialog, fill out the form to add user and select the User Group, administrator or user. Select the authority of new user. The user may be configured as live viewer with PTZ control, Alarm Out control, and Popup event. The user may be configured as search and playback user.



Add User	
User Setting	
User Name:	
Password:	
Confirm Password:	
User Group:	User 🔽
Permition Live PTZ Control Alarm Out Control Popup Event Search/Playback Event Search Make Clip	
	OK Cancel

Figure 50. Add User and Select Permissions

2) Modify User

① Select a user to modify in the User List and click the Modify User menu from the popup menu.



② Modify the user information. In the case of 'admin', It is available to be changed the password. And select the OK button to save.



Modify User	X
User Setting	
User Name:	user_a
Password:	
Confirm Password:	
User Group:	User 🔽
Permition Live PTZ Control Alarm Out Control Popup Event Search/Playback Event Search Make Clip	
	OK Cancel

Figure 52. Modify User

3) Delete User

① Select a user name to delete and click the Delete User menu from the pop-up menu.





② Clicking Yes in the User delete confirmation dialogue will delete the user.





Figure 54. Delete User Confirmation



3.2.8 Log

You can manage the system log for the system with eneo NUMINA Server program and connection with network camera system and event log that records the changes in settings through eneo NUMINA Management Studio.



1) System Log

Figure 55. Log

The System item under the Log shows the system logs, Information, Warning and Error which happened in the eneo NUMINA Server System.



Server List Server Status Camera Status Section Section	System L	.og		
Server Status	Tune			
Section	Tune			1/
S P Group	A Cost	Date & Time	Contents	
E Group	() Info	2009-09-17 16:09:38	Disconnect camera	
😑 🔮 Cameras (8)	() Info	2009-09-17 16:09:38	Disconnect camera	
a 🦢 Layout	() Info	2009-09-17 16:09:38	Disconnect camera	
Layout-16 [VIEW 4X4]	() Info	2009-09-17 16:09:38	Disconnect camera	
layout-4 [VIEW 202]	() Info	2009-09-17 16:09:38	Disconnect camera	
E Geber	() Info	2009-09-17 16:09:38	Disconnect camera	
a User	() Info	2009-09-17 16:09:38	Disconnect camera	
E Sustan	() Info	2009-09-17 16:09:38	Disconnect camera []	
El Ewict	A Warning	2009-09-17 16:09:38	Recording server stopped []	
El cross	() Info	2009-09-17 16:00:20	Connection is successful [2MegaPixel] 192.168.91.201:7070	
	A Warning	2009-09-17 16:00:18	Disconnect camera Error Code: 1	
	() Info	2009-09-17 15:23:22	Connection is successful [2MegaPixel] 192.168.91.201:7070]	
	() Info	2009-09-17 15:23:22	Connection is successful [2MegaPixel 192.168.91.201:7070]	
	() Info	2009-09-17 15:23:20	Connection is successful { 2MegaPixel } 192.168.91.201:7070	
	() Info	2009-09-17 15:23:18	Connection is successful [2MegaPixel 192.168.91.201:7070	
	A Warning	2009-09-17 15:23:17	Disconnect camera Error Code: 1	
2	A Warning	2009-09-17 15:23:17	Disconnect camera Error Code: 1	

2) Event Log

The Event item under the Log shows the event logs, Information, Warning and Error.

🙀 eneo NUMINA Management St	udio				
Elle View Help	-10				
Server List	4	Samanan	CONCINE CONCERNING OF		-
Camera Status	~	Event (M	anagement) Log		1/3
🚊 🚘 Group		Type	Date & Time	Contents	
😑 💇 Cameras (8)		(j) Info	2009-09-17 16:36:43	Server: Add schedule recording [2MegaPixel] 127.0.0.1:3004	
Layout-16 [VIEW 4X4]		Warning	2009-09-17 16:36:40	Server: Delete schedule recording 2MegaPixel] 127.0.0.1:3004	
layout-4 [VIEW 2x2]		() Info	2009-09-17 16:21:45	Server: Stop discovery camera 127.0.0.1:3004	
📾 🚂 User		(i) Info	2009-09-17 16:20:15	Server: Stop discovery camera 127.0.0.1:3004	
S User		() Info	2009-09-17 16:18:14	Server: Start discovery camera 127.0.0.1:3004	
😑 😂 Log		(i) Info	2009-09-17 16:16:52	Server: Stop discovery camera 127.0.0.1:3004	
System		() Info	2009-09-17 16:15:46	Server: Start discovery camera 127.0.0.1:3004	
Event		A Warning	2009-09-17 16:09:28	Server: Stop recording server 127.0.0.1:3004	
\$ 192,168,90,4		() Info	2009-09-17 15:07:04	Login Administrator admin 127.0.0.1:3004	
		() Info	2009-09-17 14:32:04	Login Administrator admin 127.0.0.1:2844	
		() Info	2009-09-16 22:55:15	Logout Administrator admin 127.0.0.1:4799	
		A Warning	2009-09-16 16:25:28	Login is failed admin 127.0.0.1:5399	
		(i) Info	2009-09-16 16:23:41	Server: Start recording server 127.0.0.1:4799	
		(Info	2009-09-16 15:25:30	Server: Stop discovery camera 127.0.0.1:4799	
		() Info	2009-09-16 15:25:18	Server: Start discovery camera 127.0.0.1:4799	
		A Warning	2009-09-16 15:25:06	Server: Stop recording server 127.0.0.1:4799	
		() Info	2009-09-16 15:25:02	Login Administrator admin 127.0.0.1:4799	
	Y	() Infó	2009-09-16 15:12:13	Logout Administrator admin 127.0.0.1:4410	
2 3	-	(i) Info	2009-09-16 15:09:40	Server: Start recording server 127.0.0.1:4410	
Ready	- 34			CAP N	UM SCRL



4. eneo NUMINA Web Viewer

You can connect to the system with eneo NUMINA Server with eneo NUMINA Web Viewer using Internet Explorer. You can check the list of cameras registered to eneo NUMINA Server with eneo NUMINA Web Viewer, adjust the screen split with the various Layout such as 4, 8, 13, 16 splits depending on the settings of Layout, and search and play back the real-time or recorded video. And you can control PTZ and Alarm Out, and select audio output.

4.1 Connection and Login

Check the IP address of the system with eneo NUMINA Server and Web Service Port, and connect to the server using Internet Explorer.

① Run Internet Explorer and enter IP address of the system with eneo NUMINA Server and port number in the address entry field.

ex) to access localhost, http://127.0.0.1:88/



Figure 56. eneo NUMINA Web Viewer Login

② Enter user information in Login ID/Password and click Login button.



☑ Note

- You can find the IP address of the system from Start Menu of Windows - Control Panel - Network and Internet Connection Properties.
- The status of eneo NUMINA Server registered in eneo NUMINA Management Studio must be set to Run to connect with eneo NUMINA Web Viewer.
- Check the Server Port number (default port is '88') in the Properties of the eneo NUMINA Server connected to eneo NUMINA Web Viewer.
- Login ID and Password and ID and Password of the user registered in the eneo NUMINA Server.
- Microsoft Internet Explorer 6.0 or lower version and other web browser such as Mozilla are not supported.

4.2 eneo NUMINA Web Viewer screen configuration

eneo NUMINA Web Viewer screen supports Live View mode for real-time playback and camera control and Search & Play mode for searching and playback of recorded video using date and time information.

1) Live View mode

① Camera List that shows the list of cameras registered to the server and Layout list of 4, 8, 13, or 16 split Layout registered to the server by the user are shown on the left of the screen in Live View mode.

② Alarm Out control panel for controlling cameras and PTZ control panel for controlling PTZ control are shown on the left of the screen.

③ Audio output control function and volume adjust function panel are provided to control bidirectional audio transfer to and from the camera.

④ Other functions include Popup Event Viewer button to pop up and display the channel in case of an event, Hotspot button with digital zoom function to zoom part of the video, Digital PTZ button, Snapshot button for capturing and printing still image from video, Previous/Next button to switch to cameras in other group in split-screen mode, and a button to switch between full-screen model and 2x2, 8, 13, 16 split-screen mode.



Ö Numina – Windows Internet Explorer	
🔄 😔 - 🙋 http://127.0.0.1:88/	🛛 😽 🗙 Live Search
🚖 🗇 Numina	💁 • 🔊 🐇 🖶 페이지(만) • 🛞 도구(인) •
🮺 eneo 🛛 Numina Web Viewer 🗖	
□ Camera List	
WeiMINITRAX0007D800F17 WeiFASTRAX0007D800F28 WeiFASTRAX0007D8012136 WeiFASTRAX0007D8018034 WeiFASTRAX0007D8018049 WeiFASTRAX0007D8018049 WeiFASTRAX0007D8018049 WeiFASTRAX0007D8018049 WeiFASTRAX0007D8018040 WeiFASTRAX0007D8018050	
eFASTRAX0007D801B055 eFASTRAX0007D801B056 efASTRAX0007D801B056 e2x80X0007D801B057 e2x80X0007D801E082 a2x8E0X0007D801E082 a2x8E0X0007D801E082 a2x8E0X0007D801E082 a2x8E0X0007D801E082 a2x8E0X0007D801E082 a2x8E0X0007D801E082	
Ø ⊑ 111 Ø ⊒ 123	
Alarm Out Control	
Preset	

Figure 57. Live View Mode

2) Search & Play mode

① This mode is for searching and playback of recorded audio and video data saved in eneo NUMINA Server, and it includes Layout List that shows Layout configured with channels to show on the screen.

② Audio control panel to control the output of saved audio data is provided.

③ Timetable in hour units showing recording information for up to 16 channels and date for recorded data is shown on the lower part of the screen, and users can choose the date and time to search the data.

④ Playback control buttons such as forward/reverse playback, pause, stop, and fast playback, and Clip Export button are provided.

⑤ Buttons for controlling screen split mode are provided.

📀 - 🛛 🔊 http://127.0.	0,1:88/											4	+ ×	Li	ve S	earch				
🕸 🙀 Numina												<u>}</u>	. 1	- 8	÷ -	Ð	페이지	(<u>P</u>)	• 💮	도구(
eneo' Numina	Web View	er 🗖											ØÐ	6	2	0]	8	1	
Layout List	K D	F) (4)	a) (•) (•) (8)								(4)			
111																				
									_											
]																				
	-			_					+											
				_																
	20	10-07-20 1	5:40:(04					G)6	00	20)			
	•	07 / 20	10		•						5	6	7 8		10		12 1	13 1	a 11	a n
	Sun Mon	Tue Wed	Thu	Fri S	at	01	ç	5		10	1	5	20		25		30	35		4
	27 28	29 30	-1	2	3	02														
	4 5	6 7	8	9	10	04														
	11 12	13 14	15	16	17	05														
	18 19	20 21	22	23	24	09	_												_	
	25 26	27 28	29	30	31	11 12 13														
						14	_													
						16														ΞJ.

Figure 58. Search and Play Mode

☑ Note

• eneo NUMINA Web Viewer is a 16 channel Live View/Search & Play Viewer that requires ActiveX installation. Connect to eneo NUMINA Server and follow the Active X installation related instructions under the Internet Explorer tool screen.

• Screen configuration may be different depending on the settings of Internet Explorer.

4.3 Live View

1) Camera List

① Right-click on the camera items in the camera list, and drag it into the screen

to display the real-time video.

② The playback screen displays name of camera, date, time, and received data

size on the screen.

③ Panel can be expanded/collapsed with the button in Camera List Panel.

2) Layout List

① Left-click on Layout item in screen split mode configuration (Layout) defined

by the user, and drag it onto the screen to display the video with the configuration of Layout in real time.

② The playback screen displays name of camera, date, time, and data size on the screen.

③ Panel can be expanded/collapsed with the button in Layout List panel.

3) Alarm out control

① You can select the camera channel from the screen and control ON/OFF

from Alarm out control panel.

and the other	Control
On	Off

Figure 59. Alarm Out Control

☑ Note

 Alarm control function of the network device must be configured to control Alarm out control.

4) Audio in/out control

① Select the camera channel from the screen, select mute on/off, and adjust the volume level from Audio out control panel to adjust the volume of the audio sent from the camera.

② Select the camera channel, select mute on/off, and adjust the volume level in Audio in control panel to send the audio from the microphone connected to the system to the camera.

Ø Note

- In order to send or receive audio data, speaker and microphone must be connected to the system, and mute function in recording and playback in Windows volume control must be off.
- Bidirectional audio may not work depending on the configuration of network devices.

5) PTZ control

① You can control the camera in eight directions using Pan/Tile function of the

camera in PTZ control panel of eneo NUMINA Web Viewer.

② Iris/Focus/Zoom control functions are provided.

③ The panel can be expanded/collapsed with the button in PTZ control panel.

Figure 61. PTZ Control

☑ Note

• The connected network device must have PTZ function to use PTZ control.

6) Screen split mode

eneo NUMINA Web Viewer supports 1, 4, 8, 13, and 16 screen split mode and full-screen mode.

① Select the camera channel that is shown on the screen, and double-clicking will switch to one screen mode, and double-clicking one more time will switch back to previous split mode.

② Clicking View 2x2(4), View 8(8), View 13(13), or View 4x4(16) screen split mode changes the screen split mode depending on the configuration of cameras registered in Camera List.

③ Clicking Full-screen button or selecting Full-screen menu from the pop up menu by right-clicking enables full-screen model.

④ In full-screen mode, hitting ESC key with keyboard or selecting Full-screen Close menu from the pop-up menu by right-clicking changes back to previous screen mode.

⑤ Clicking Previous/Next button in split-screen mode changes the selected channel, and it plays video on the screen by grouping cameras registered in Camera List while maintaining the current split mode.

Figure 62. Screen Split Control

⑥ Right-click on the screen channel and select Remove button from the pop-up menu to remove the selected channel from the current split mode.

Figure 63. Channel Removal From Split Mode

7) Popup Event

① When event pop-up window function is activated and motion or other events

occur from the connected sensors in the network devices, a window that displays the video from the channel with event is generated.

Figure 64. Popup Event

② After event pop-up window is created, event time and camera channel information are added to the event.

③ Video from the camera with an event is displayed on the window. When an event occurs in the camera, 30 seconds long video right before the event is added to the event list only without displaying, and the 30 seconds long video after the event will be displayed on the event pop-up window.

Figure 65. Popup Event Window

☑ Note

- When Event Pop-up Window is closed with the Close (⊠) button, it will be generated again when an event occurs.
- In order to stop event pop-up window function, click Event Pop-up button in the web browser.

8) Hot spot

① Hot button allows a specific selected channel to be displayed on a separate window.

Figure 66. Hot spot

② If a camera channel is selected from the web browser after Hot Spot window is generated, Hot Spot window output video will change to the selected channel.

Figure 67. Hot spot Window

9) Digital Zoom

① Clicking Digital Zoom button will zoom part of the output video.

Figure 68. Digital Zoom

② Drag the selected area with the mouse to change the zoom area.

③ Use the wheel function of wheel mouse to change the size of zooming area.

Figure 69. Wheel Move on Digital Zoom

☑ Note

• Digital PTZ function zooms part of the screen but it does not improve or change the received video quality.

Figure 70. Digital Zoom Window

10) Snapshot

① If you click Snapshot button or select Snapshot menu from the pop-up menu by right-

clicking on the channel in the screen, you can save the video of the selected channel into image file or print the image.

Figure 71. Snapshot/Print

② Original resolution of the image is displayed on the Snapshot window title, and clicking on Original button will change the image to the original resolution.

③ Click the Print button to print with the printer connected to the system.

④ Click the Save button to save into JEPG file.

Figure 72. Snapshot/Print

11) Freeze

 Right-click on the channel to freeze the video output on the screen, and select Freeze menu from the pop-up menu.

② To resume the frozen video, uncheck the Freeze function from the pop-up menu using the same method as above.

Figure 73. Freeze

12) Aspect Ratio

① In order to make the output on the screen proportional to the size of the video encoded by IP camera or video server, right-click on the channel in the screen and click Aspect ratio button from the pop-up menu.

② In order to make the output video fill the screen, uncheck Aspect ratio menu from the pop-up menu using the same method as above.

Figure 74. Aspect Ratio

13) Filter – Deinterlace

- ① Right-click on the channel encoded in interlaced type and select Deinterlace
- of Filter from the pop-up menu to produce smoother video.
- O To disable the Deinterlace function, uncheck Deinterlace menu of Filter using

the same method as above.

☑ Note

- Deinterlace function improves the quality of only the video encoded in interlaced type, the video quality may depend on the amount or direction of the motion of image.
- Deinterlace function does not affect the quality of saved video.

4.4 Search & Play

1) Date/Time Search & Play

① From the Layout List defined by the user, right-click on Layout item to drag it

into the screen for displaying the video, then video files saved in the format of Layout configuration will be searched and shown on the corresponding date.

② Select the saved date from the calendar, then the timetable shows the time

of the saved video. Select the video shown in the timetable and press Play button in playback control buttons to play the saved video.

③ Click the buttons in Layout List panel to expand or collapse the panel.

eneo NUMINA Server: User's Manual

Figure 75. Date/Time Search & Play

2) Event Search

① From the Layout List (screen split mode configuration) defined by the user,

right-click on Layout item and drag it into the screen for displaying the video, then video files saved in the format of Layout configuration will be searched and shown on the corresponding date.

② Select Search Event button to search and playback by date/time or event

type from the events generated from the cameras included in the selected layout.

Figure 76. Event Search

③ When First/Last check box is checked in Event Search screen, all events recorded in eneo NUMINA server will be searched. When First/Last is unchecked and Today, 3 Days, Week, or Month is selected, the range of searching event log will be limited to today, last three days, last one week, and last one month from today, or users can change the searching range with a specified date and time. Alarm In or Motion can be selected for the type of event to search.

④ Users can select the device to search the event from the list and change the range of searching.

(5) When the search condition is set and Search button is clicked, the search result will be shown on the screen. If there is no event that meets the condition then a message box indicating no event will be displayed. If there is an event that meets the condition, the search result will be shown on the screen for each camera.

naryo	Trans 1 ranse 1	WAR HAVE	
	P Feg 20091 7 8 2012 4	8.9 - 9.23 (2:00:00	-
	₩ Last 2009년 7월20일 월	EB - 24 7:55:42	1
Event			
	🖓 Alam In		
	P Motion		
Ú.E			
1	Name	CH	~
	MPEG4MINI	CH 1	1
	MPEG4PTZ	CH 2	
	MPEG4	CH 3	
	MPEG4PTZ	CH 4	
	MPEG4PTZ	CH 5	
	I MOCCADTZ	CH 6	
	MPEG4P12	CU 7	
	MPEG4PTZ	CH /	
	MPEG4PTZ MPEG4PTZ	CH 8	

Figure 77. Event Search

⑤ Events on a camera are shown under the camera tab in the Event Search result screen, and the result of a search event is displayed as a list by event type and event time. Up to 20 searched events are shown on one page and users can navigate to different pages.

⑦ Date and time of the calendar will be changed to the time when the event occurred and the saved video will be played back if you select and double-click the searched

event from the list.

MPEG4MINI	MPEG4PTZ	MPEG4	4
Event	Date & Time		-
	2009-07-20 20:04:20		
	2009-07-20 20:03:30		
Motion	2009-07-20 20:02:41		
	2009-07-20 20:01:44		
	2009-07-20 20:01:17		
	2009-07-20 19:59:02		
	2009-07-20 19:58:38		
	2009-07-20 19:54:07		
	2009-07-20 19:51:36		
🔮 Motion	2009-07-20 19:51:25		
Motion	2009-07-20 19:51:14		
	2009-07-20 19:51:07		
	2009-07-20 19:50:56		
Motion	2009-07-20 19:50:45		
	2009-07-20 19:50:35		
	2009-07-20 19:49:57		~
	1/27		
-			

Figure 78. Event Search

3) Hot spot, Digital Zoom, Snapshot

Hot spot, Digital Zoom, and Snapshot functions are the same as in Live view mode. (Refer to 4.3. (8)~(10))

Figure 79. Function Bottons

4) Screen split mode

The functions of Previous, Next, View 2x2, View 8, View 13, View 4x4, and Full-screen buttons are same as in Live view mode. (Refer to 4.3.(6))

Figure 80. Screen Split Control

5) Play Control

① Time information of the video to display is shown.

② Calendar showing the date of the video to play, time line in 24H format, and the table showing the recording status of each channel with the resolution of minute are provided.

	20	010-0	7-21 1	10:11:	41	
		07	/ 20	10		×
Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Figure 81. Play Controls, Date/Time Table

③Following are the descriptions of play control buttons.

- Fast Backward Play: to play backward fast

- Step Backward: to display and advance by one frame backward for each click

- Backward Play: to play backward

- Stop: to stop playback. The mode will be changed to initial Search & Play mode.

- Pause: to pause playback.

- Play: to play forward
- Step Forward: to display and advance by one frame forward for each click
- Fast Forward Play: to play forward fast

④ Clicking the Make Clip File button will save the files into the local system as exe files.

Figure 83. Clip Copy

⑤ Enter Start/End time in Make Clip File and select the channel to save into the

local system. You can check the required capacity by clicking Estimation button. Click the Save button and enter the name of folder and file to save.

☑ Note

- The capacity shown when clicking Estimation button from Make Clip File screen may not be the same as the actual size of the saved file.
- Clicking Close button while saving will not delete the saved file.
- Continue Loading is not supported.

Make Clip Fil	e	×
Start	2009년 7월 20일 월요일 🔽 오전 8:08:32	•
End	2009년 7월20일 월요일 🔻 오후 8:15:32	•
Chappel		
Channer		
		_
	Estimation Save Close	

Figure 84. Make Clip File

4.5 Server Status

There is the Server Status menu for checking the server information and Logs. Click the Server Status menu button on the top.

Figure 85. Server Status

1) Server Information

There are two sub items, Server Status and Camera Status. The Server Status item shows the CPU, Memory, Network and Disk usages.

Ø ::: ::: - Windows Internet Explorer		×
http://127.0.0.1:88/status.php		
Status		
Server Information	Server Status	
Server Status Camera Status	Service	
Log	Recording server: Run	
System Log	CPU	
Event Log	CPU usage: 3 %	
	Memory (Physical)	
	Memory usage: 60 % 1233 / 2046 (MB)	
	Network	
	테스트망(1000 Mbps): 4.22 %	
	회사망(100 Mbps): 1.40 %	
	Disk	
	Drive C:\ (Total: 232.88 GB)	
	Drive D:\(Total: 195.31 GB) 🛛 Used: 63.90 GB 🖉 Free: 131.41 GB	
	Drive E:\ (Total: 102.77 GB) 🗰 Used: 91.46 GB 📑 Free: 11.31 GB	
완료	● 인터넷 보호 모드: 설정 🛛 🍕 🔹	• @ 100% •

Figure 86. Server Status

The Camera Status item shows the cameras information, Model, Name, Active, Video Codec and others.

http://127.0.0.1.88/status.php?type=stat	Camera Sta Camera List Model: Name: AddrAddressess: Video Codec: Resolution: fps: BPS: Model: Name: AddrAddressess: AddrAddressess:	tus HEB2MPN-0007D800F314_1 192.160.90.212 Connection ♥ H.264 1600 X 1200 15 843228 	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	eFASTRAX0007D80150 192.168.90.51 Connection ∰ MPEG4 720 X 576 25	49
Status Server Information Server Status Camera Status Log System Log Event Log	Camera Sta Camera List Model: Name: AddrAddressess: PS: BPS: Model: Name: AddrAddressess: AddrAddressess:	HEB2MPN-0007D800F314_1 192.168.90.212 Connection State H.264 1600 X 1200 15 843228	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	eFASTRAX0007D801B0 192.168.90.51 Connection ∰! MPEG4 720 X 576 25	49
Server Information Server Status Camera Status Log System Log Event Log	Camera Sta Camera List Model: Name: AddrAdressess: AddrAdressess: AddrAdressess: BPS: Model: Name: AddrAddressess: AddrAddressess:	HEB2MPN-0007D800F314_1 192.168.90.212 Connection Set H.264 1600 X 1200 15 843228	Model: Name: AddrAddressess: Adtivate: Video Codec: Resolution: fps: BPS:	eFASTRAX0007D801B0 192.168.90.51 Connection 92 MPEG4 720 X 576 25	49
Server Status Camera Status	Camera List Model: AddrAddressess: AddrAddressess: AddrAddressess: Resolution: fps: BPS: Model: Name: AddrAddressess: AddrAddressess: AddrAddressess:	HEB2MPN-0007D800F314_1 192.168.90.212 Connection M H.264 1600 X 1200 15 843228	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	eFASTRAX0007D801B0 192.168.90.51 Connection W MPEG4 720 X 576 25	149
C Log System Log Event Log	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS: Model: Name: AddrAddressess: Activate:	HEB2MPN-0007D800F314_1 192.168.90.212 Connection M H.264 1600 X 1200 15 843228 NXC-1302M0007D801P23 1	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	eFASTRAX0007D80180 192.168.90.51 Connection M MPEG4 720 X 575 25	149
I Log System Log Event Log	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS: Model: Name: AddrAddressess: Activate:	HEB2MPN-0007D800F314_1 192.168.90.212 Connection H. H.264 1600 X 1200 15 843228 NXC-1302M0007D801P23 1	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	eFASTRAX0007D801B0 192.168.90.51 Connection 👾 MPEG4 720 X 576 25	149
Event Log	Activate: Video Codec: Resolution: fps: BPS: Model: Name: AddrAddressess: AddrAddressess:	Connection M H.264 1600 X 1200 15 843228	Activate: Video Codec: Resolution: fps: BPS:	Connection 99 MPEG4 720 X 576 25	
	Model: Name: AddrAddressess: Activate:	NXC-1302M0007D801B23_1	BPS:		
	Video Codec: Resolution: fps: BPS:	192.168.90.210 Connection 💬 H.264 1280 X 720 30 175191	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	145277 e22xBOX0007D801E08 192.168.90.155 Connection % MPEG4 720 X 480 30 379119	3
	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	e22xBOX0007D801E0A6 192.168.90.56 Connection M MPEG4 720 X 576 25 375525	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	e22xAIO0007D801E0C 192.168.90.79 Connection 9 MPEG4 720 X 480 30 379500	4
	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	e22xAIO0007D801E0FD 192.168.90.119 Connection 👾 MPEG4 720 X 480 30 366540	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	e22xAIO0007D801E120 192.168.90.105 Connection M MPEG4 720 X 576 25 254998	J
	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	e22xAIO0007D801E133 192.168.90.108 Connection (R) MPEG4 720 X 576 25 448135	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	eSS5400007D80275A1 192.168.95.31 Connection M MPEG4 720 X 576 25 241664	
	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	eSS5400007D80275A7 192.168.95.33 Connection MPEG4 720 X 576 25 230748	Model: Name: AddrAddressess: Activate: Video Codec: Resolution: fps: BPS:	eSS5400007D80275B6 192.168.95.42 Connection WM MPEG4 720 X 576 25 204958	

Figure 87. Camera Status

2) Log

There are two sub items, System Log and Event Log The System Log item shows the system logs, Information, Warning, and Error.

後 📰 🗉 - Windows Internet Explorer					x
http://127.0.0.1:88/status.php?type=log					
					-
Conver Information					
Server Information	System L	og			
Server Status				1/2	
Camera Status	Туре	Date & Time	Contents		
	🚺 Info	2010-07-21 10:09:08	Login is successful admin 127.0.0.1:49929		
Log	(i) Info	2010-07-21 10:09:03	Logout admin 127.0.0.1:49892		
System Log	(i) Info	2010-07-21 10:05:58	Login is successful admin 127.0.0.1:49892		
Event Log	(i) Info	2010-07-21 10:05:00	Connection is successful [HPCB-C1AA4ACDE48DD08 ch1_stream2] 192.168.12.185:554	36-	
	(i) Info	2010-07-21 10:05:00	Connection is successful [HEV0118H0007D810120C_ 192.168.91.210:80	1]	
	(i) Info	2010-07-21 10:05:00	Connection is successful [eSS5400007D8027609] 192.168.95.45:7070		
	(j) Info	2010-07-21 10:05:00	Connection is successful [eSS5400007D80275B6] 192.168.95.42:7070		
	(i) Info	2010-07-21 10:05:00	Connection is successful [eSS5400007D80275A7] 192.168.95.33:7070		
	(i) Info	2010-07-21 10:05:00	Connection is successful [eSS5400007D80275A1] 192.168.95.31:7070		
	(i) Info	2010-07-21 10:05:00	Connection is successful [e22xAIO0007D801E133] 192.168.90.108:7070		
	(j) Info	2010-07-21 10:05:00	Connection is successful [e22xAIO0007D801E120] 192.168.90.105:7070		
	(i) Info	2010-07-21 10:04:51	Connection is successful [e22xAIO0007D801E0FD] 192.168.90.119:7070		
	(j) Info	2010-07-21 10:04:51	Connection is successful [e22xAIO0007D801E0C4] 192.168.90.79:7070		
	(j) Info	2010-07-21 10:04:50	Connection is successful [e22xBOX0007D801E0A6] 192.168.90.56:7070		
	(j) Info	2010-07-21 10:04:49	Connection is successful [NXC-1302M0007D801B23_ 192.168.90.210:80	1]	
	(i) Info	2010-07-21 10:04:49	Connection is successful [e22xBOX0007D801E083] 192.168.90.155:7070		
	(j) Info	2010-07-21 10:04:48	Connection is successful [eFASTRAX0007D801B049] 192.168.90.51:7070		
	(i) Info	2010-07-21 10:04:47	Connection is successful [HEB2MPN-0007D800F314_: 192.168.90.212:80	1]	
	🚺 Info	2010-07-21 10:04:44	Recording server started Port: 11440		
	🛕 Warning	2010-07-21 10:03:41	Recording server stopped		
			1 2		
)	J
					_
					-
완료	_		😌 인터넷 보호 모드: 설정 🛛 🖓 🔻	• 100%	•

Figure 88. System Log

The Event Log item shows the Information, Warning, and Errors.

Error Code	Description
1	No video stream during 6 seconds after requesting
2	Disconnected from the server or camera
3	No response keep-alive from camera
4	Socket error
5	Connection failure

Server Status Camera Status 3 Log System Log	Type Date & Time nfo 2010-07-21 10:08:33	
Camera Status	Type Date & Time	Contents 3 Server: Add layout list View 3 127.0.0.1:49643
Log I I System Log I I	nfo 2010-07-21 10:08:33	3 Server: Add layout list View 3 127.0.0.1:49643
System Log	- C	
System Log (j) I	nro 2010-07-21 10:07:35	5 Server: Add layout list View 4 127.0.0.1:49643
	nfo 2010-07-21 10:04:44	4 Server: Start recording server 127.0.0.1:49643
Event Log	nto 2010-07-21 10:04:4	1 Server: HDD allocated D:\ 127.0.0.1:49643
10	nro 2010-07-21 10:04:3:	Server: Stop discovery camera 127.0.0.1:49643
	2010-07-21 10:04:2.	Server: Add camera [HPCB-C1AA4ACDE48DD0836-
	nto 2010-07-21 10:04:2:	ch1_stream2] 127.0.0.1:49643
() I	nfo 2010-07-21 10:04:11	Server: Add camera [NXC-1302M0007D801B23_1] 127.0.0.1:49643
(i) I	nfo 2010-07-21 10:04:10	Server: Add camera [HEB2MPN-0007D800F314_1] 127.0.0.1:49643
(i) I	nfo 2010-07-21 10:04:09	Server: Add camera [e22xBOX0007D801E083] 127.0.0.1:49643
(i) I	nfo 2010-07-21 10:04:09	Server: Add camera [eFASTRAX0007D801B049] 127.0.0.1:49643
(i) I	nfo 2010-07-21 10:04:09	Server: Add camera [e22xAIO0007D801E120] 127.0.0.1:49643
(i) I	nfo 2010-07-21 10:04:09	Server: Add camera [eSS5400007D80275A1] 127.0.0.1:49643
() I	nfo 2010-07-21 10:04:08	³ Server: Add camera [e22xBOX0007D801E0A6] 127.0.0.1:49643
() I	nfo 2010-07-21 10:04:08	Server: Add camera [e22xAIO0007D801E0C4] 127.0.0.1:49643
(i) I	nfo 2010-07-21 10:04:08	3 Server: Add camera [e22xAIO0007D801E0FD] 127.0.0.1:49643
() I	nfo 2010-07-21 10:04:07	7 Server: Add camera [eSS5400007D80275A7] 127.0.0.1:49643
() I	nfo 2010-07-21 10:04:07	7 Server: Add camera [eSS5400007D8027609] 127.0.0.1:49643
(i) I	nfo 2010-07-21 10:04:03	Server: Add camera [e22xAIO0007D801E133] 127.0.0.1:49643
	nfo 2010-07-21 10:04:03	7 Server: Add camera [eSS5400007D80275B6]
(i) I		
	1	1 2

Figure 89. Event Log

5. Clip Viewer

The Clip Viewer is the exported file player. There are playback controls, digital zoom, snapshot and print, Clip/AVI exporting, and split controls (1, 4, and 16-split mode). The function and user interface are dependent on the clip viewer version.

Figure 90. Clip Viewer

5.1 Clip Viewer

The Clip viewer is consisted of screens and control panel. The control panel has recorded time of the file, time-line progress bar, playback controls, function buttons (digital zoom, snapshot and print, and clip/AVI exporter), speed control progress bar, and split controls (1, 4 and 16-split mode)

5.2 Time-line Progress Bar

The time-line progress bar shows the current position in the file. And if the time thumb is moved

in the time-line by dragging, the viewer shows the video frames of that time. The time thumb would be moved by second.

2009-10-04 14:42:14	<u>`</u>	2009-10-04 14:45:55
()		

Figure 91. Time-line Progress Bar Control

5.3 Playback Controls

There are playback controls. The step by step (frame by frame) operations are enabled in 1-split mode.

	Move to the begging of the file
	Fast reverse play (skipped I-frames)
	Reverse play (I-frame based)
	Reverse play by step (frame by frame)
	It is enabled in 1 split mode
	Stop and close playback mode
	Pause play
	Forward play with normal speed
	Forward play by step (frame by frame)
	It is enabled in 1 split mode
	Fast forward play (I-frame based)
	Move to the end of the file

Table 3. Playback Controls in Clip Viewer

5.4 Digital Zoom

It is the same function of 4.5.3 Digital zoom.


① Click the Digital Zoom button (

) in the control panel.

② Select the region to zoom in by drawing a rectangle on the screen. The region is able to be moved by dragging the rectangle in the original screen viewer. And the region is able to be scaled by the mouse wheel operation.



Figure 92. Digital Zoom in Clip Viewer

5.5 Snapshot and Print

The displaying screen is able to be saved as JPEG file format and printed.



② The Original button is to display the captured image as original size. The Print button is to print the current image. The Save button is to save the image as JPEG file.





Figure 93. Snapshot and Print Image in the Clip Viewer

5.6 Clip / AVI Exporting

Each video stream is able to be exported as AVI file format or Clip viewer type.

① Click the Clip/AVI Exporter button (

② The Clip/AVI Exporter shows the recorded time of the file. Select the time range to export using From and To. The file name is generated automatically by the file name, channel and time range.

③ Select the channel to be exported by checking the number. The All button is to select or deselect all available channels in the file.

④ Select the destination folder to be exported by clicking the Destination button or Editing the directory path directly.

⑤ Check the to AVI button to export as AVI file. Otherwise the exporting file format is clip viewer (exe). The AVI file is generated by channel as one file. The Clip viewer file is generated as one file no matter how many channels are selected.

6 Press the Export button to start exporting.



Recorde	ed : 2009-11	1-04, 14:42	:14 ~ 2009	-11-04, 14:	45:55			
From	2009-11-	04 🛟	오후 2:42	::14 拿	То 20	09-11-04	ि ठिव	‡ 2:45:55
Channels								
V 1	2	🗹 З	4	5	6	7	8 🗹	
9 🗹	V 10	11	12	V 13	V 14	15 🗹	V 16	🗹 All
								_
Destinatio	n D:	ψ						to AVI

Figure 94. Clip/AVI Exporter

5.7 Speed Control

The Speed Control is to determine the file reading time interval in playback. There are 5 steps of interval. The speed is not absolute time value. It is dependent on the recorded channels, frame rate and system performance for decoding and displaying. The left side is slower and the right side is faster.



Figure 95. Speed Control Progress Bar

5.8 Split modes

|--|--|

There are split mode buttons (1, 2x2(4), 4x4(16)-split mode). By clicking the split mode button, the split mode would be changed including selected channel. If you select channel number 6 in 16-split mode, and click the 4-split mode, then the channel 5, 6, 7 and 8 would be displayed.





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