TeleEye GN Series

HD Digital Video Recorder

GN6516 / GN6816 / GN6916

User Guide

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Section 1: Introduction

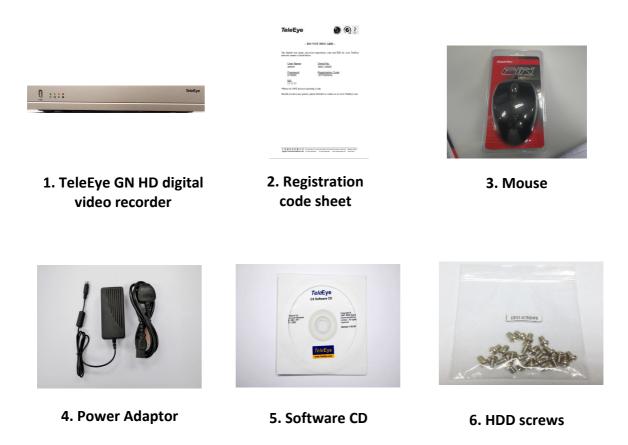
TeleEye GN6608/GN6516 and GN6916 is a range of HD digital video recorders, which is specially designed for dedicated and shared network architecture. All GN models support real-time HD recording up to the maximum frame rate of 480 fps.

TeleEye GN6608/GN6516 and GN6916 has developed special video streaming protocols that provide extra security during Internet transmission. The 5 protection layers incorporated in the TeleEye video surveillance solutions are able to shield off hacker's attacks via the Internet.

TeleEye GN6608/GN6516 and GN6916 HD digital video recorder works with TeleEye cameras and third party ONVIF Profile S cameras, providing extra protection on the video data for safer transmission across any public networks.

1.1. Package Contents

Make sure the following items are included within the package.





7. SATA cable x 8

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1.2. Functional Features

- Independent & efficient HD recording stream
- 3M/4M/1080p/720p HDTV resolution
- Support TeleEye MQ, MP series, IP cameras conform to ONVIF profile S
- Video recording up to 400/480 fps
- Configurable recording frame rate
- Supporting up to 2/8 SATA HDDs
- USB video extraction
- Flexible connections: LAN, broadband & mobile network
- Support both static & dynamic IP
- Dedicated video network: require only one IP for up to 16 MQ HD Video Cameras
- IP filtering
- Single point video throughput control
- Mobile video monitoring
- Triplex operation: simultaneous video monitoring, recording & playback
- HD video output
- Multiple login accounts
- Compliance with BS 8418
- Sophisticated event management
- Multi-language OSD
- Mouse control

1.3. Convention Used in This Manual

[]	Menu or buttons in On Screen Display (OSD) menu or software
	Option in On Screen Display (OSD) menu or software
Ĵ	Remarks

1.4. Hardware Feature

1.4.1. Front View



1. Notification LEDs

LED	Description
٥ ٩	Light up when power on
·	Light up when network connected
•	Light up when performing recording
•	Blink when an event is triggered

2. Front USB port

For mouse control, firmware upgrade, footage extraction, setting import/export



1. Front USB port

For mouse control, firmware upgrade, footage extraction, setting import/export

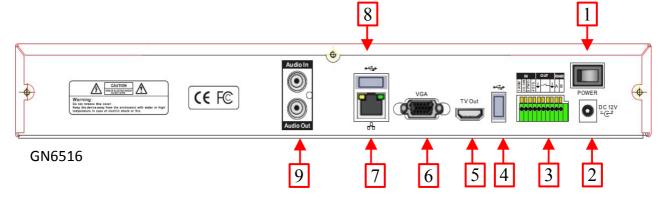
2. Notification LEDs

LED	Description	
POVER	Light up when power on	
LINK	Light up when network connected	

3. Main control buttons

Button	Description Power ON/OFF	
OR/OFF		
RESET	Reset	

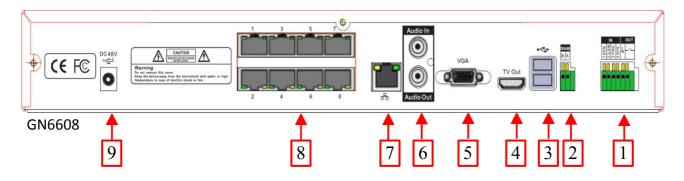
1.4.2. Back View



- 1. Power switch
 - Switch on or off the TeleEye GN HD Digital Video Recorder
- 2. Power input (12V DC)
 - Power supply to TeleEye GN
- 3. Alarm/switch port and RS-485 in/out port
 - In : 4 special inputs, Arm/disarm, security switch, system tamper, power failure
 - RS485 : 2-way terminal block for connecting a keyboard controller to control a PTZ camera
 - Out : 1 alarm out
- 4. Rear USB port
 - For mouse control, firmware upgrade, footage extraction, setting import/export
- 5. TV output
 - HDTV output connector
- 6. VGA output
 - Standard VGA connector
- 7. Ethernet jack (10/100/1000 Base-T)
 - Connect to the corporate computer network (e.g. LAN)

8. Rear USB port

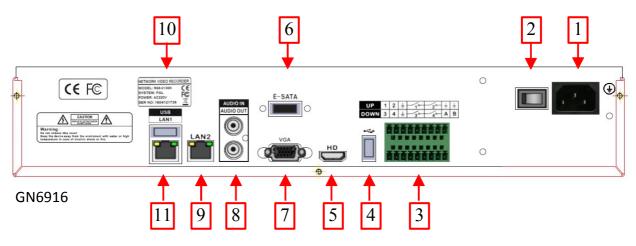
- For mouse control, firmware upgrade, footage extraction, setting import/export
- 9. Audio in/out port, PA
 - Audio In : Connect to audio input device (e.g. amplified microphone) for recording
 - Audio Out : Connect to audio output device (e.g. amplified speaker) to facilitate remote public addressing



- 1. Alarm/switch port and RS-485 out port
 - In : 4 special inputs, Arm/disarm, security switch, system tamper, power failure
 - Out : 1 alarm out
- 2. RS-485 in/out port
 - RS485 : 2-way terminal block for connecting a keyboard controller to control a PTZ camera
- 3. Rear USB port
 - For mouse control, firmware upgrade, footage extraction, setting import/export (Top rear USB port common with front USB port)
- 4. TV output
 - HDTV output connector
- 5. VGA output
 - Standard VGA connector
- 6. Audio in/out port, PA
 - Audio In : Connect to audio input device (e.g. amplified microphone) for recording
 - Audio Out : Connect to audio output device (e.g. amplified speaker) to facilitate remote public addressing

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- 7. Ethernet jack (10/100/1000 Base-T)
 - Connect to the corporate computer network (e.g. LAN)
- 8. Digital video input ports (POE)
 - RJ-45 connectors for video source input
- 9. Power input (48V DC)
 - Power supply to TeleEye GN



- 1. Power input (AC100-240V/3.5-2A)
 - Power supply to TeleEye GN
- 2. Power switch
 - Switch on or off the TeleEye GN HD Digital Video Recorder
- 3. Alarm/switch port and RS-485 out port
 - In : 4 special inputs, Arm/disarm, security switch, system tamper, power failure
 - Out : 4 alarm out
 - RS485 : 2-way terminal block for connecting a keyboard controller to control a PTZ camera
- 4. Rear USB port
 - For mouse control, firmware upgrade, footage extraction, setting import/export (Top rear USB port common with front USB port)
- 5. TV output
 - HDTV output connector

- 6. E-SATA
 - External SATA connector
- 7. VGA output
 - Standard VGA connector
- 8. Audio in/out port, PA
 - Audio In : Connect to audio input device (e.g. amplified microphone) for recording
 - Audio Out : Connect to audio output device (e.g. amplified speaker) to facilitate remote public addressing
- 9. Ethernet jack (10/100/1000 Base-T)
 - Connect to the corporate computer network (e.g. LAN)
- 10. Rear USB port
 - For mouse control, firmware upgrade, footage extraction, setting import/export (Top rear USB port common with front USB port)
- 11. Digital video input ports
 - RJ-45 connectors for video source input

Section 2: Hard Disk Installation, Formatting and Scanning

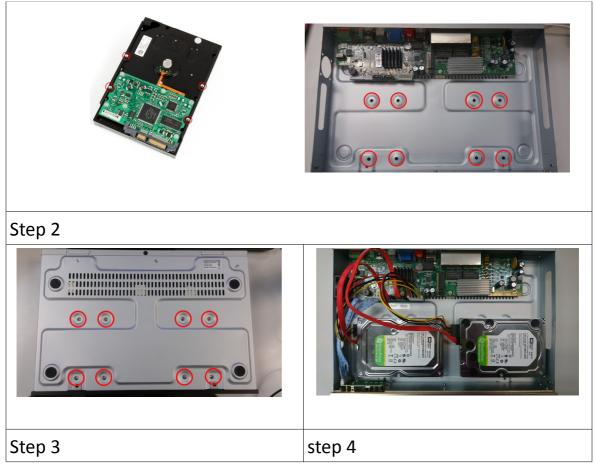
2.1. Hard Disk Installation

Hard disk is required in recording, video playback and keeping different types of log. Follow the steps below for disk installation. A hard disk recommendation list has been included in the package as a reference.

GN6608/GN6516

- 1. Loosen the screws of cover.
- 2. Pull off the cover and put HDD into bottom case. Ensure the screw holds are aligned.
- 3. Mount the HDD on the bottom case with attached screws.

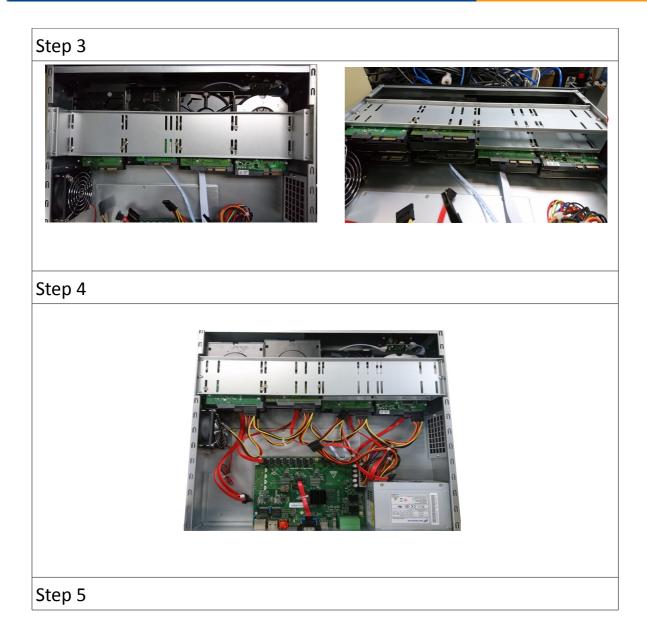
4. Connect the SATA and power cable to the HDD.



<u>GN6916</u>

- 1. Loosen the screws of cover.
- 2. Pull off the cover and take out hard disk holder.
- 3. Mount the HDD on the hard disk holder with attached screws. Maximum 8HDD can be install.
- 4. Mount the hard disk holder to Teleeye GN.
- 5. Connect the SATA and power cable to the HDD.





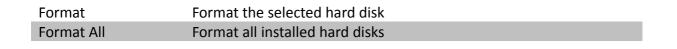
2.2. Hard Disk Formatting

Formatting is required when the format of an installed hard disk cannot be recognized by the digital video recorder, most likely a hard disk that has not been used by the video recorder. Another purpose of disk formatting is to clean up recording space and redeem the file allocation. An unrecognized hard disk will be formatted automatically after TeleEye GN starts up. Formatting will erase all data inside the disk. Hence make sure that important data has been backed up before performing this function. Once it is reconstructed, it would be readable and writable by the digital video recorder.

User can also perform disk formatting manually. The function can be found in the OSD menu:

Page 11

	Disk Managerr	nent
Total Size		953.75 GB
Total Usage		0 %(Cyclic Mode)
	Slot	2
	Model	ATA WDC WD10EURX-73(
	S/N	WD-WCC4J3TYJXYX
	Capacity	953.75 GB (0%)
2	Status	IN RECORDING
	Condition	GOOD
		2016-09-07 09:13:37
FORMAT		DISABLE
FORMAT A	LL	SCAN ALL



2.3. Hard Disk Scanning

Hard disk scanning is a maintenance function similar to the Scan Disk function provided by the operating system of a personal computer. This function is provided in an attempt to rescue the hard disk in case errors are found, and to enhance its performance and reliability. The function can be found in the OSD menu:

[Main Menu] ----> [HDD/Recording] --->[Disk Management].

Clicking on the [Scan All] button will start scanning all installed hard disk.

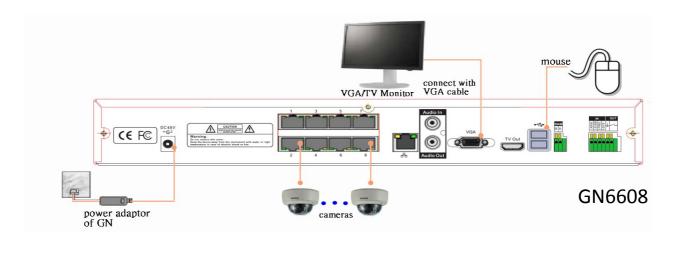
Section 3: Camera

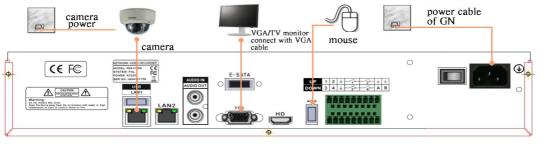
There are two video network mode: Dedicated Video Network and Shared IP Network.

3.1. Camera Installation

3.1.1. Setup for Local and Remote Monitoring

Dedicated Video Network

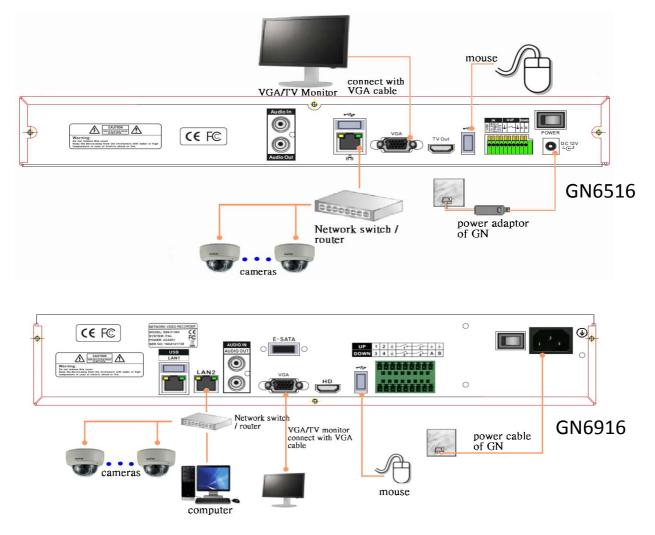




GN6916

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Shared IP Network



- 1. Follow above to install cameras to the video ports of TeleEye GN.
- 2. Power on TeleEye GN. A startup screen will appear on the connected monitor.



3.1.2. Adding New Camera

Dedicated Video Network

Cameras will be search automatically after install camera to the video ports of TeleEye GN6608.

Shared IP Network

[Main Menu] —->[Add Camera]



2. Click 💽 to search cameras. The details of cameras such as CAM number, IP port, Type, Model,

Status will shown on the screen.

3. Select the camera you want to add, click **and** to edit camera information.

4. Click **[OK]** to connect. There are three type of cameras: TeleEye MQ, TeleEye MP and ONVIF. Please make sure that you have selected the corresponding type of cameras.

(Whatever the type of cameras you selected, you are requested to enter the username and

password.)

amera	Connect	Camera	Connect	Camera
210.17.139.5	IP	210.17.139.31	IP	210.17.139.36
80	Port	80	Port	80
🛶 TeleEye MQ 🛶	Туре	<table-cell-rows> TeleEye MP</table-cell-rows>	Туре	- ONVIF
	Security Mode	ADVANCED	Security Mode	
admin	User Name	admin	User Name	admin
*****	Password	*****	Password	*****
CANCEL	ок 👌	CANCEL	ок 🧏	CANCEL
	210.17.139.5 80 TeleEye MQ ADVANCED admin ******	210.17.139.5 IP 80 Port TeleEye MQ Type ADVANCED Security Mode admin User Name Tessword Password	210.17.139.5 IP 210.17.139.31 80 Port 80 TeleEye MQ Type TeleEye MP ADVANCED Security Mode ADVANCED admin User Name admin Password ******	210.17.139.5 IP 210.17.139.31 IP 80 Port 80 Port TeleEye MQ Type TeleEye MP Type ADVANCED Security Mode ADVANCED Security Mode admin User Name admin User Name ***** Password ****** Password

(For TeleEye MQ / MP, the default user name is "admin" and the password is "123456".)

3.2. Camera swapping

In Dedicated Video Network mode, the assigned camera numbers in digital video recorder are not dependent to the port number. It is dependent to the order of inserting camera to the recorder. For example, if the camera A is connected to the video port 2, and then camera B is connected to the video port 1, the CAM 1 is connecting with Camera A as it is the first camera to insert. Similarly, the CAM 2 is connecting with Camera B as it is the second one to insert. Therefore, "First come, First connected". However, it is possible to swap the camera numbers you desired.

1. Switch on the video recorder. Open the main OSD menu by right click of mouse. Click the [Menu] and Select [System].

2. Select [Camera Setting].

System Setting	
Information	
Registration Checking	DISABLE
Built In Web Server	ENABLE
Language	🔶 English 🄶
Video Network Mode	- DEDICATED
Shared Network Setting	
Dedicated Network Setting	
Camera Setting	X
Date/Time	
Network	

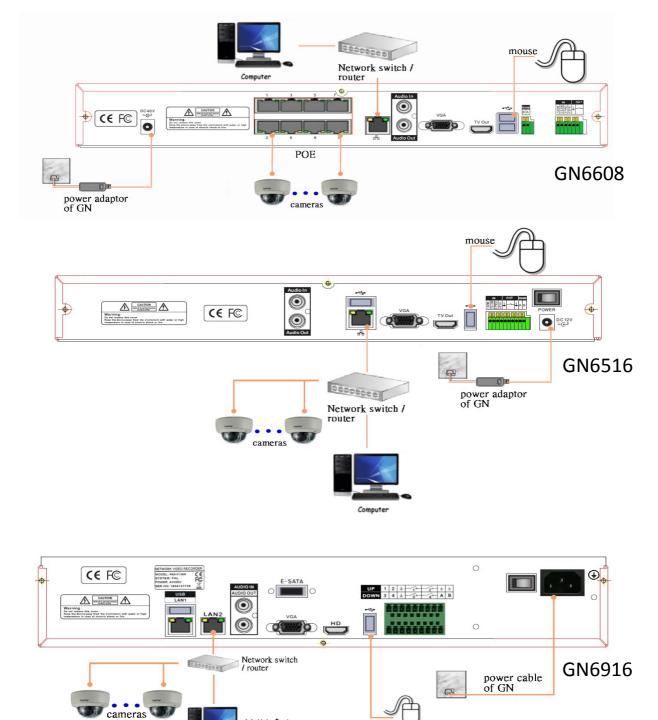
3. Click [Camera], and select the original camera number of camera you want to swap. Then click [Swap Position], and select the desired camera number. Click [Apply].

Camera	🐠 1 🕪	Camera	🔶 1 🏟
Installed	YES	Installed	YES
Name	CAMERA 1	Name	CAMERA 1
Swap Position	2	Swap Position	🔷 2 🅩
	APPLY		APPLY

Section 4: Setup for Local and

Remote Monitoring

4.1. Setup for LAN Connection



computer

mouse

Equipment:

- TeleEye GN HD Digital Video Recorder and its power adaptor
- Cameras
- CAT-5 cable
- Network switch or router
- PC
- Mouse

PC Requirements:

- CPU : Intel [®] Core i3 Processor
- RAM : 2 GB
- HDD : 10 GB free space
- Display : Direct 3D, Nvidia GeForce GT 220 / ATI Radeon HD 5450 or above
- OS : Windows XP, Windows Vista or Windows 7

Other Requirements:

- Java : Sun Microsystems Java 2 runtime Version 1.5.0 or above
- IE : Windows Internet Explorer Version 6 or above

Setup Procedures on GN Side:

1. Install a hard disk to the TeleEye GN.

🕝 If there is no hard disk installed, Recording and Playback are not functional

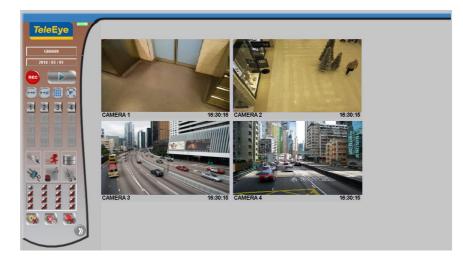
- 2. Connect cameras to the network switch or video ports of TeleEye GN.
- 3. Connect TeleEye GN to the network switch.
- 4. Plug in the power adaptors to TeleEye GN.
- 5. If all installed hard disks are not in TeleEye GN recognized format, they would be formatted automatically when startup completes.

Setup Procedures on PC Side:

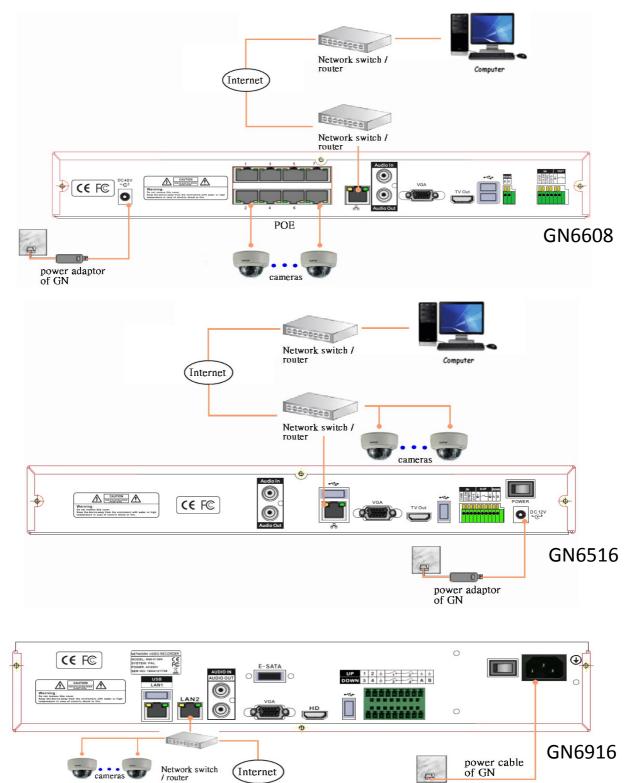
- 1. Install TeleEye IP Setup Utility. .NET framework is also needed for the operations. Both can be found in the included software CD.
- 2. Run IP Setup Utility.

TeleEye IP Se	tap Utility				
<u>File A</u> ction <u>H</u>	<u>I</u> elp				
Serial Number	Site Name	Model Name	IP	sureLINK	Discovery Time
GNS11221	GN6608	GN6608	210.17.139.116:1024		9:20:01

- 3. Find the TeleEye GN according to the serial number provided by the provider.
- By default, TeleEye GN obtains the IP address, netmask and gateway automatically through DHCP. To assign a static value, deselect the *"Obtain an IP address automatically"* checkbox and enter the corresponding information. The gateway should be the IP address of the router.
 The DNS setting is used for sureLINK, time synchronization and e-mail notification.
- 5. To access the TeleEye GN, double click the row representing the digital video recorder. A web browser should be opened automatically.
 The first 3 fields of IP address of the PC should be the same as that of TeleEye GN.
- Besides accessing through IP Setup Utility, user can also open a web browser and type the IP address plus port number in the format http://IPAddress:PortNumber (e.g. http://192.168.0.12:1024) or *sure*LINK address in address bar directly.
- 7. By default, user name is *"admin"*. Enter password and press [Connect].
 (The default administrator password is *"0"+"digits of serial number"*. There is an example: Serial Number :GNS11529 User Name : admin Default Password : 011529 Details can be found in the registration code sheet)
- 8. Live video is shown after successful connection.



4.2. Setup for Broadband Internet Connection



00000000

computer

Equipment:

- TeleEye GN HD Digital Video Recorder and its power adaptor
- Cameras
- CAT-5 cable
- Network switch or router
- PC

PC Requirements:

- CPU: Intel [®] Core i3 Processor
- RAM: 2 GB
- HDD: 10 GB free space
- Display:Direct 3D, Nvidia GeForce GT 220 / ATI Radeon HD 5450 or above
- OS: Windows XP, Windows Vista or Windows 7

Other Requirements:

- Java: Sun Microsystems Java 2 runtime Version 1.5.0 or above
- IE: Windows Internet Explorer Version 6 or above

Setup Procedures on GN Side:

- Install a hard disk to the TeleEye GN.
 If there is no hard disk installed, Recording and Playback are not functional
- 2. Connect cameras to the network switch or video ports of TeleEye GN.
- 3. Connect TeleEye GN to the network switch.
- 4. Plug in the power adaptors to TeleEye GN and cameras.
- 5. If all installed hard disks are not in TeleEye GN recognized format, they would be formatted automatically when startup completes.

Setup Procedures on PC Side:

- 1. Configure the network settings of TeleEye GN through PC with LAN connection.
- 2. Install TeleEye IP Setup Utility. .NET framework is also needed for the operations. Both can be found in the included software CD.
- 3. Run IP Setup Utility.

7 TeleEye IP Se	tup Utility				
<u>F</u> ile <u>A</u> ction <u>I</u>	<u>H</u> elp				
Serial Number	Site Name	Model Name	IP	sureLINK	Discovery Time
GNS11221	GN6608	GN6608	210.17.139.116:1024		9:20:01

- 4. Find the TeleEye GN according to the serial number provided by the provider.
- 5. By default, TeleEye GN obtains the IP address, netmask and gateway automatically through DHCP. To assign a static value, deselect the *"Obtain an IP address automatically"* checkbox and enter the corresponding information. The gateway should be the IP address of the router.
 The DNS setting is used for sureLINK, time synchronization and e-mail notification.
- 6. Reconnect the digital video recorder to the Internet network.
- 7. Configure other network settings for TeleEye GN and the PC if necessary, such as router port mapping, firewall, etc. Please refer to the manual of the router.
- 8. Open a web browser and type the IP address plus port number in the format http://IPAddress:PortNumber (e.g. http://192.168.0.12:1024) or *sure*LINK address in address bar directly.
- 9. By default, user name is *"admin"*. Enter password and press [Connect]. (The default administrator password is *"O"+"digits of serial number"*. There is an example: Serial Number :GNS11529 User Name : admin Default Password : 011529 Details can be found in the registration code sheet)
- 10. Live video is shown after successful connection.



Section 5: Local Operation

5.1. Icons Description

When observing video from local monitor, icons may be shown on the screen. Each of the icons has its special meaning. A summary of their meanings can be found in the following table.

lcon	Representation	lcon	Representation
×	Tamper event	🥏 😒	Arm/disarm control
٢	Alarm event		Security switch control
<u>_</u>	Motion event	REC	Recording
	Video loss event		Playback
	Power failure event		Pause in playback
	Disk usage alert event		Fast Forward in playback
0	HDD fault event	4	Backward in playback
•	Audio enabled	+	Digital /Analog PTZ control
	PTZ tite up	S	PTZ tite down
Comparison of the second se	PTZ pan left	$\left \begin{array}{c} \\ \end{array} \right $	PTZ pan right
	PTZ function (only for analog PTZ)		PTZ command subtract (only for analog PTZ)
	PTZ command add (only for analog PTZ)		PTZ command up (only for analog PTZ)
	PTZ command down (only for analog PTZ)	-	OSD object selection
	PTZ command box (only for analog PTZ)	SCANNING :	Disk scanning
FORMATTING	Disk formatting	RECOVERING	Recovering recording

5.2. OSD Menu

Most local operations are controlled through the on screen display (OSD) menu. A detail explanation on its operation and structure will be given in this section.

5.2.1. OSD Menu Operation

User can connect a mouse to the USB port or use the control buttons on the front panel to perform different operations.

A. By Mouse

_	Entor a cub manu					
	Enter a sub-menu					
	Select a value for	Select a value for menu option.				
	Double click on a	recording l	og to sele	ct playba	ck cameras.	
(Left click)	Double click on a	system log	to perfor	m searchi	ng.	
	Double click on ar	n IP filtering	g entry to	edit.		
	Used to open and				vigate back	ward to previous
۲	menu.				-	
(Right click)			Screen S	Selection		
(0 /		1	2	3	4	
		5	6	7	8	
		9	10	11	12	
		13	14	15	16	
		All	Mode	Next	Sequential	
		SWITCH 1	SWITCH 2	SWITCH 3	SWITCH 4	
		Playback	REC	Menu	8 Audio	
						1

When getting through the OSD, user will see different types of item. Their properties are listed below:

Item	Name	Description
No	Yes/No box:	2 options only
		Click on it to toggle the option
< 720P	Spin box:	3 or more options available
		Click on the arrows to choose another option
5 MINS	Drop down box:	Multiple options available
		Click on it to show all available options
		Click on an option to select it
11:00	Edit box:	Require user to enter a value
		Click on it to prompt a virtual keypad for inputting
	Link:	Click on it to enter a sub-men
	Tick box	Click on it to toggle the option

5.2.2. OSD Menu Structure

Local operations are performed through the OSD Menu. The menu architecture and brief description on each option will be given in this section.

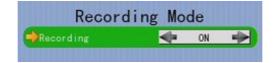
[Screen Selection]

This menu is for mouse operations and can only be opened by right clicking the mouse.



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Camera Selection Panel	Show currently displaying cameras
	Click to display selected camera in full screen
All	Display all cameras
Mode	Select the display mode
Next	Display next camera
Sequential	Start sequential mode
Switch 1 – Switch 4	Toggle the status of the switch
Playback	Display recording log
Recording	Change recording to on, off or schedule
OSD Menu	Open main OSD menu
Audio	Select audio channel



Recording

Quick menu for selecting recording mode

- Off :Disable recording
- On :Enable recording of all cameras
- Schedule :Enable schedule recording

[Main Menu]



HDD/Recording	Change recording and hard disk settings
System Log	Display event, connection, operation and setting log
System	View server information
	Change system settings (e.g. IP, date time, language)

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Add Camera	Search camera
	Connect camera
Playback	Display recording log
	Start video playback
Switch	Control the switches
	Change switch settings
Event Handler	Change event settings
Footage Extraction	Extract recorded video to USB flash device
User	Change security mode
	Change user settings

[Main Menu] [HDD/Recording]

HDD/Recording Setting				
Disk Management	and the second			
Recording Mode	I ON			
Image Size				
Video Quality	MEDIUM			
Frame Rate				
Disk Mode	CYCLIC			
Recording Redundancy	NO			
Schedule Recording				
Recording Retention				
Recover Recording				
Dick Management	View hard disk information			
Disk Management				
Desculture Marsha	Format, scan or turn on/off disk			
Recording Mode	Select recording mode			
	Off :Disable recording			
	On :Enable recording of all cameras			
	Schedule :Enable schedule recording			
Image Size	Set recording resolution			
	• WQHD :2048 x 1536			
	• 1080p :1920 x 1080			
	• 720p :1080 x 720			
Video Quality	Set video quality			
Frame Rate	Set recording frame rate, applied to all cameras			
	• Auto :Record at highest achievable frame rate			
	X fps :Record at X frames per second			
	Custom :Enable custom frame rate for individual			
	camera			

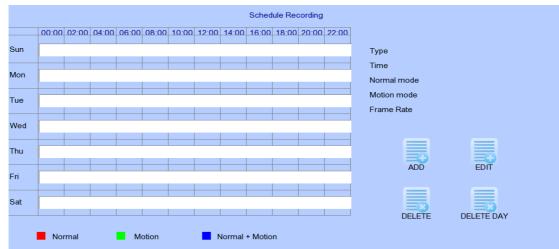
Page 27

Custom Frame Rate	Set recording frame rate of individual cameras	
Disk Mode	Set disk mode	
	Cyclic :Remove oldest data when hard disk full	
	 Fixed :Stop recording when hard disk full 	
Schedule Recording	View or change recording schedules	
Recording Retention	Set recording retention settings	
Recover Recording	Recover damaged recorded video	

	Disk Managen	nent
Total Size		476.88 GB
Total Usage		100 %(Cyclic Mode)
	Slot	3
2	Model S/N	ATA ST3500411SV Z2A9JCKH
	Capacity	476.88 GB (94%)
0	Status	IN RECORDING
	Condition	GOOD
		2016-03-22 09:20:25
FORMAT		DISABLE
FORMAT ALL		SCAN ALL

Format	Format the selected hard disk *
Turn on/off	Turn on hard disk for recording purpose *
Scan All	Scan all installed hard disks *
Format All	Format all installed hard disks *

For execution, a local password of current user is required in advanced mode



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Add	Add a new recording schedule
Edit	Edit the selected schedule
Delete	Delete selected schedule
Delete Day	Delete all schedules of a day as the selected schedule

[Main Menu] >[HDD/Recording] >[Schedule Recording] >[Add]

	Add Recordi	ng Schedule	
Weekdays			S—
Start Time(Min 00:00)			00:00
End Time(Max 24:00)			00:10
Frame Rate			🛶 auto 🛶
Recording Type			NORMAL
Camera 1	< DISABLE 🔶	Camera 2	<table-cell-rows> DISABLE 🔶</table-cell-rows>
Camera 3	< DISABLE 🔶	Camera 4	< DISABLE 🔶
Camera 5	< DISABLE 🔶	Camera 6	< DISABLE 🔶
Camera 7	🜗 DISABLE 🔶	Camera 8	< DISABLE 🔶
Camera 9	< disable 🎲	Camera 10	<>> DISABLE +>>
Camera 11	< disable 🎲	Camera 12	<>> DISABLE +>>
Camera 13	< disable 🎲	Camera 14	<>> DISABLE <>>
Camera 15	< DISABLE 🌳	Camera 16	<i>DISABLE</i>
	A	DD	
Motion Setting			

Weekdays	Select the weekdays to apply the schedule			
Start Time	Set the start time of the schedule			
End Time	Set the end time of the schedule			
Camera	Select the cameras to apply the schedule			
Frame Rate	Set recording frame rate of the schedule			
	(not applicable for Custom frame rate)			
Recording Type	Type of recording schedule			
	Normal :Record when within schedule			
	Motion :Record when motion detected and			
	within schedule			
	Custom :Record based on individual camera			
	setting			
ADD	Confirm add the schedule setting			
Motion Setting	Set motion detection settings			

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[Main Menu] [HDD/Recording] [Schedule Recording] [EDIT] Most settings are the same as [Add] menu.

EDIT Confirm EDIT the schedule setting

[Main Menu] > [HDD/Recording] - [Recording Retention]

Recording Retention		
Enable	YES	
Retention Period	999	
Schedule Time for Retention	23:59:00	

Enable	Enable / disable recording retention
Retention Period	Remove recorded video after selected days
Schedule Time for Retention	Remove recorded video at selected time



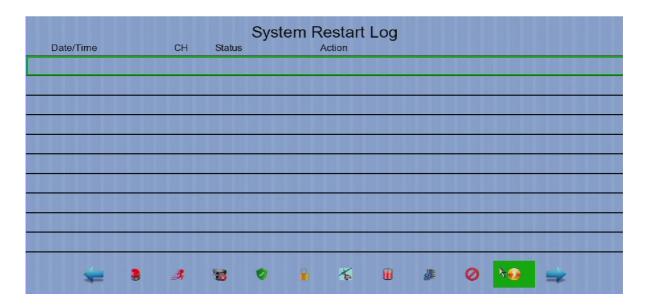
Press "MENU" button can hide or display progress bar during recovering.

ОК	Start recover (local password of current user is required in
	advanced mode)
CANCEL	Back to previous page

	Log
Event Log	
Connection Log	
Setting Log	
Operation Log	

Event Log	Display event log
Connection Log	Display remote connection log
Setting Log	Display setting log
Operation Log	Display operation log

Page 30



Date/Time	Show event date and time				
Ch	Show event channel number				
Status	Show event status				
	 Trigger :Event triggered 				
	Reset :Event reset				
	Tamper :Event tampered				
	Arm :System armed				
	Disarm :System disarmed				
	Secu Switch On :Security switch turned on				
	Secu Switch Off :Security switch turned off				
	 Entry :Event trigger within entry delay 				
	Exit :Event trigger within exit delay				
Action	Show event associated actions				
*	Show previous / next page of log				
💄 🍂 🐨 🖌 🔒 🌾 🕖 🚑 🖉 😜	Show different types of event log				

[Main Menu] —-> [System Log] ---> [Connection Log]

		Connection Log			
Date/Time	Access	Status	Remark	User	
2016-03-16 09:19:42	210.17.139.132	Disconnected	-	ADMIN	
2016-03-16 09:19:37	210.17.139.132	Disconnected	-	ADMIN	
2016-03-16 09:19:09	210.17.139.132	Connected	Dial In	ADMIN	
2016-03-16 09:18:38	210.17.139.132	Connected	Dial In	ADMIN	
2016-03-14 14:47:52	210.17.139.132	Connected	Dial In	ADMIN	
2016-03-14 14:45:23	210.17.139.132	Connected	Dial In	ADMIN	
2016-03-11 18:20:28	210.17.139.132	Connected	Dial In	ADMIN	
2016-03-11 18:20:22	210.17.139.132	Disconnected	-	ADMIN	
2016-03-11 18:20:02	210.17.139.132	Connected	Dial In	ADMIN	
2016-03-11 17:25:00	210.17.139.132	Connected	Dial In	ADMIN	
				2	

Date/Time	Show connection date and time		
Access	Show IP of the remote host		
Status	Show connection status		
Remark	Show type of connection		
	Dial in :Triggered by user		
	Dial back : Triggered by dialback action		
User	Show the user connected to video server through remote software		
₩	Show previous / next page of log		

[Main Menu] → [System Log] / Setting Log]

		Setti	ing Log		
Date/Time	Setting	СН	Remark	Access	User
2016-03-16 09:19:31	Server Name	-	-	210.17.139.132	ADMIN
2016-03-16 09:19:10	Image Size	-	Custom	210.17.139.132	ADMIN
2016-03-15 15:46:08	Camera Password	3	-	Local	POWER ON RIGHT
2016-03-15 15:46:08	Camera Username	3	-	Local	POWER ON RIGHT
2016-03-15 15:46:08	Camera IP	3	10.254.0.101	Local	POWER ON RIGHT
2016-03-15 15:46:08	Camera Port	3	80	Local	POWER ON RIGHT
2016-03-15 15:46:08	Camera Password	2	-	Local	POWER ON RIGHT
2016-03-15 15:46:08	Camera Username	2	-	Local	POWER ON RIGHT
2016-03-15 15:46:08	Camera IP	2	10.254.0.102	Local	POWER ON RIGHT
2016-03-15 15:46:08	Camera Port	2	80	Local	POWER ON RIGHT
4					

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Date/Time	Show date and time of the change
Setting	Show setting that is changed
Ch	Show channel number of setting if available
Remark	Show new value of the setting
Access	Show IP of the remote host or "Local" for local host
User	Show the user performed the change
₩	Show previous / next page of log

	Op	eration Log	
Date/Time	Operation	Access	User
2016-03-16 09:19:42	Remote Logout	210.17.139.132	ADMIN
2016-03-16 09:19:37	Remote Logout	210.17.139.132	ADMIN
2016-03-16 09:19:09	Remote Login	210.17.139.132	ADMIN
2016-03-16 09:18:38	Remote Login	210.17.139.132	ADMIN
2016-03-16 09:10:41	System Startup	Local	POWER ON RIGHT
2016-03-15 19:25:24	Power Off	Local	POWER ON RIGHT
2016-03-15 16:00:10	System Startup	Local	POWER ON RIGHT
2016-03-15 15:59:10	Power Off	Local	-
2016-03-15 15:58:00	System Startup	Local	POWER ON RIGHT
2016-03-15 15:57:00	Power Off	Local	-
			2

Date/Time	Show date and time of the operation
Operation	Show operation that is done
Access	Show IP of the remote host or "Local" for local host
User	Show the user performed the operation
₩	Show previous / next page of log

[Main Menu] → [System Log] → Any Log → [Search Log]

Press enter or double click on any log entry to enter [Search Log] menu.

	Search	Log
Date		2011-11-24
Time		10:56
	ак	

Date	Set the search date
Time	Set the search time
ОК	Search for log closest to the date and time

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[Main Menu] [System Log] [Event Log] [Log Option]

If an event log entry is associated with the recording action, pressing enter or double clicking will enter **[Log Option]** menu.





Enter [**Search Log**] menu Enter [**Recording Log**] menu with date and time of event log

System Setting			
Information			
Registration Checking			DISABLE
Built In Web Server		ENABLE	
Language		ENGLISH	-
Video Network Mode	\triangleleft	SHARED	\rightarrow
Add Camera (In Shared Network)			
Add Camera (In Dedicated Network)			
Camera Setting			
Date/Time			
Network			
External Keyboard			Z
Privacy Mask			
PTZ			
Display			
License			
Audio Setting			
System Upgrade			
Import/Export			
Restore Factory			
Maintenance Log Backup			
		*	0

Information	Display general information of the digital video recorder
Registration Checking	Enable / disable remote registration check
Built In Web Server	Enable / disable built in web server
Language	Set display language
Video Network Mode	Change video network mode
Add Camera	Change shared network mode settings
(In Shared Network)	

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Add Camera	Change dedicated network settings
(In Dedicated Network)	
Camera Setting	Change camera settings
Date /Time	Change date and time settings
Network	Change connection, throughput and 3G modem settings
External Keyboard	Set external keyboard settings
Privacy Mask	Set PTZ privacy mask
PTZ	Set PTZ arguments
Display	Change local monitoring and audio settings
License	Check server license
Audio Setting	Set audio input and output
System Upgrade	Upgrade system from USB device
Import /Export	Import or export setting files
Restore Factory	Restore default settings
Maintenance Log Backup	Extract digital video recorder log
Restart System Button	Restart the system
Shutdown System Button	Safe shutdown the system

System	n Information
System Name	GN6608
Model Name	GN6608
Serial Number	GNS12345
Firmware Version	0.01.02 (2811-13903)
CPLD Version	
IP	210.17.139.131
Port	1024
Subnet Mask	255.255.255.0
Gateway	210.17.139.78
Primary DNS	8.8.8
Secondary DNS	203.186.94.20
Cellular Network IP	NOT DIALUP

Server Name	Display name of the digital video recorder
Model Name	Display model of the digital video recorder
Serial Number	Display serial number of the digital video recorder
Firmware Version	Display firmware version of the digital video recorder
CPLD Version	Display CPLD version
IP	Display IP address of the digital video recorder
Port	Display port number of the digital video recorder
Subnet Mask	Display subnet mask of the digital video recorder
Gateway	Display gateway of the digital video recorder
Primary DNS	Display primary DNS of the digital video recorder
Secondary DNS	Display secondary DNS of the digital video recorder

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Main Menu]	Camera Settin	g]	
	Camera	< 1 🏓	Camera	🔷 1 🌩
	Installed	YES	Installed	YES
	Name	CAMERA 1	Name	CAMERA 1
	Swap Position	APPLY	Swap Position	APPLY
	Brightness	<u></u>	Sense Up	NO
	Contrast	<u> </u>	Lens Zoom	
	Saturation		Vari-Focal [+ -]	
	Sharpness	<u></u>	AI Sensitivity	
	Exposure	_0_	Iris	< AUTO 🌩
	Mirror	- NORMAL	DC Level	<u>_0</u>
	White Balance	🔷 AUTO 🌩	Focus [+ -]	<u>+</u>
	Flickerless	< 50Hz	HD Resolution	< 1080P
	Day Night	AUTO		RESTART
	DEFAULT	>>> UNDO	DEFAULT	UNDO

Camera	Select a camera		
Installed	Enable / disable the video channel		
Name	Change the name of camera		
Swap Position	Adjust the swap position		
Brightness	Set video brightness		
Contrast	Set video contrast		
Saturation	Set video saturation		
Sharpness	Set the sharpness to make video more sharp		
Exposure	Set the exposure when video is too dark		
Mirror	Set video mirroring to display image in different way		
	Normal :Normal display		
	H Flip :Left/right flip		
	• V Flip :Top/down flip		
	 HV Flip :Left/right flip + top/down flip 		
White Balance	Set the white balance when video color displayed is not correct		
Flickerless	Set the flickerless to match the environment		

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Day Night	Set the day night mode to match the environment
	Auto :Auto adjustment
	Day :Day mode only (color)
	 Night :Night mode only (black and white)
Sense Up	Set video to sense up
Lens Zoom	Set camera lens zoom
	 OPTICAL ZOOM :support optical zoom only
	 OPTI & DIGI ZOOM :support optical and
	digital zoom
Vari-Focal [+/-]	Adjust the focal
Al Sensitivity	Set AI sensitivity
Iris	Set video iris
Iris DC Level	Set video iris Adjust the DC level
-	
DC Level	Adjust the DC level
DC Level Focus [+/-]	Adjust the DC level Adjust the focus

[Main Menu] >[System] Date/Time]

	Date/Time
Time Synchronization Enable	NO
Time Zone	GMT+08:00
Country	< Asia/Hong_Kong 🌩
Date	2013-04-09
Time	10:57:57
	CHANGE TIME
Primary Time Server	TIME.WINDOWS.CO
Secondary Time Server	TIME.NIST.GOV
	SYNCHRONIZE TIME

Time Synchronization Enable	Enable / disable time synchronization
Time Zone	Set the time zone
Country	Select a country
Date	Set system date (Time sync disabled only)
Time	Set system time (Time sync disabled only)
CHANGE TIME	Save the time settings(Time sync disabled only)
Primary Time Server	Set the primary time server(Time sync enabled only)
Secondary Time Server	Set the secondary time server(Time sync enabled only)
Synchronize Time	Perform time synchronization(Time sync enabled only)

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Network Setting		
Auto IP	NO	
IP Address	210.17.139.135	
Port	1024	
Subnet Mask	255.255.255.0	
Gateway Enable	YES	
Gateway	210.17.139.78	
Auto DNS	NO	
Primary DNS	8.8.8.8	
Secondary DNS	203.186.94.20	
LAN Throughput	🜗 100 MBPS 🖷	
Broadband Throughput	🜗 10 MBPS 🖷	
Narrowband Throughput	🜗 3 MBPS 📫	
Mobile Throughput	🜗 512 KBPS 🚽	
Remote Live Streaming Setting		
sureLINK Setting		
IP Filtering		
Video Network Setting		

Auto IP

Auto IP	Enable / disable auto IP from DHCP
IP Address	Set IP address of the digital video recorder
Port	Set port number of the digital video recorder
Subnet Mask	Set subnet mask of the digital video recorder
Gateway Enable	Enable / disable the gateway
Gateway	Set gateway of the digital video recorder
Auto DNS	Enable / disable auto DNS
Primary DNS	Set primary DNS of the digital video recorder
Secondary DNS	Set secondary DNS of the digital video recorder
LAN Throughout	Set the data rate of LAN connection
Broadband Throughput	Set the data rate of broadband connection
Narrowband Throughput	Set the data rate of narrowband connection
Mobile Throughput	Set the data rate of mobile connection
Remote Live Streaming Setting	Set the data rate of live streaming
sureLINK Setting	Change sureLINK settings
IP Filtering	Change IP filtering settings
Video Network Setting	Change video network setting

[Main Menu]	►[System]	[Network Setting]	►[Remote	Live Strea	aming S	etting]
		Remote Live Streaming	g Setting			
	_				_	
		file	<u></u>	AUTO	-	1
	Remote Live Fra	me Rate	-	AUTO	-	
	Remote Live Qu	ality	-	MEDIUM	-	

Remote Live Profile	Set remote live resolution,
	 AUTO : Live streaming at highest achievable resolution
	 HD : Live streaming at 720p resolution
	 SD : Live streaming at 720p resolution
Remote Live Frame Rate	Set remote live streaming frame rate
	Auto :Live streaming at highest achievable frame rate
	X fps :Live streaming at X frames per second
Remote Live Quality	Set remote live streaming quality

sureLINK Setting		
Enable	ENABLE	
sureLINK Address	WWW. EDMOND2. GX. T	
Refresh Period	< 15 MINS 🌩	

Enable	Enable / disable sureLINK function
sureLINK Address	Set the sureLINK address of the digital video recorder
Refresh Period	Set the sureLINK refresh rate

		P Fil	tering			
	Mode		-	DENY	-	
	Filtered IP Add	ress				
Mode	Set t	he IP filte	ring mode			
	•	Disable	e :Disable IP filte	ering		
	•	Allow	:Only allow sel	ected IP	addres	s to connect
	•	Deny	:Disallow select	ted IP ad	dress to	o connect
Filtered IP Ac	ddress Set t	he IP rang	ge to be filtered			

		ering Entry	
No.	Start IP Address	End IP Address	
1.	193. 168. 64. 1	193. 168. 64. 100	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

No.	Show the IP filtering entry number
Start IP Address	Show starting IP of the filtered IP range
End IP Address	Show ending IP of the filtered IP range
Add	Add an IP filtering entry
Delete	Delete the selected IP filtering entry
Delete All	Delete all IP filtering entries
*	Show previous / next page of filtered IP address

[Main Menu] >[System] >[Network Setting] | IP Filtering]

──►[Filtered IP Address] ──►[Add]



Start IP Address	Set starting IP to be filtered
End IP Address	Set ending IP to be filtered
Add	Add the filter entry

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Press enter or double click on an existing entry to enter [Edit IP Filter] menu.



Start IP Address	Change starting IP of the filtering range
End IP Address	Change ending IP of the filtered range
Edit	Edit the filter entry

Video Network Setting		
→IP Address 10.254.0.2		
Subnet Mask	255.255.255.0	
Auto IP Server	ENABLE	

IP Address	Set the IP address
Subnet Mask	Display subnet mask of the digital video recorder
Auto Server IP	Enable / Disable the video network setting

External Keyboard		
YES		
1		
4800		

Support External Keyboard	
Server ID	
RS-485 Baud Rate	

Display support of external keyboard Set DVR id for PTZ control Set RS-485 input baud rate

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User can draw privacy mask by mouse or



Camera	Selected video channel
Mask ID	Selected privacy mask id
Mask Status	Enable /disable current privacy mask
	change current camera center
+	Edit size of selected privacy mask
DELETE	Delete current privacy mask

[Main Menu] >[System] [General PTZ Setting]

General PTZ Setting			
Camera	-	1	
Pan Speed	-	2	-
Tilt Speed	-	2	-
Patrol Speed	-	2	-
Dwell Time	-	2	-

Camera	Selected video channel
Pan Speed	Set pan speed
Tit Speed	Set tilt speed
Patrol Speed	Set patrol speed
Dwell Time	Set dwell time for patrol

Display Setting	
Server Name	GN6608
Date Time Position	< воттом 🔶
Camera Name Enable	🔶 YES 🔶
Sequential Time	5 SECS
Sequential Camera	1234xxxx
Default Display Mode	< 2x2 🔶
OSD Font Color	<table-cell-rows> BLACK 🔶</table-cell-rows>
Video Out Resolution	< 1080P60 A
	CHANGE RES.

Server Name	Set name of video server
Date Time Position	Set the position for displaying system time
Camera Name Enable	Display / hide camera name
Sequential Time	Set the switch time between cameras in sequential mode
Sequential Camera	Choose cameras displayed in full screen sequential mode
Default Display Mode	Set the default display mode
OSD Font Color	Set the font color of OSD items
Video Out Resolution	Set the output display resolution
Change Resolution	Confirm the change in output resolution

[Main Menu] → [System] → [Audio Setting]

Audio Input Setting			
Hardware Support	YES		
Channel	🔶 1 🇳		
Channel Installed	NO		
Channel Source	🥪 BUILT IN 🐳		
Audio Output Setting			
RCA Audio Output	🔷 PA 🌩		
PA Channel	🔷 1 🌩		
PA Installed	NO		
PA Channel Sink	Kara Built in 🎲		
Live Output	NONE		

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Hardware Support	Display audio feature is supported by video server
Channel	Set input audio channel
Channel Installed	Enable /disable audio selected input channel
Channel Source	Select source of audio
	BUILT IN : use video server on board audio input
	CAMERA : use external camera audio input
RCA Audio Output	Select RCA output
	PA : RCA output for PA
	 LIVE/PB : RCA output for LIVE/PB
PA Channel	Set PA channel
PA Installed	Enable /disable PA channel
PA Channel Sink	Select PA channel source
	BUILT IN : use video server on board audio output
	CAMERA : use external camera audio output
Live Output	Select audio live output channel

Firmware Upgrade	
gns-pack-0.01.01.rxp	
0%	
UPGRADE	

Progress Bar	Display the upgrade progress
Upgrade	Upgrade the firmware from USB flash device

[Main Menu]	►[System] ►[Import	/Export]
	Settin	g Import Export
	mport	
	Export	

Import	Import settings from USB flash device
Export	Export settings to USB flash device

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[Main Menu] [System] [Import /Export] [Export]

/ideo Recording	YES
	and the second
Switch	YES
Date/Time	YES
Connect i on	YES
Event Handler	YES
E-mail/Dialback	YES
Server	YES
DSD	YES

Video	Export camera settings if selected
Recording	Export recording settings if selected
Switch	Export switch settings if selected
Date/Time	Export date/time settings if selected
Connection	Export network settings if selected
Event Handler	Export event settings if selected
E-mail/Dialback	Export e-mail and dialback settings if selected
Server	Export server settings if selected
OSD	Export OSD settings if selected
Select All	Select / deselect all settings
Export	Export the selected settings to USB flash device

[Main Menu]──►[Event Status]

	Event Status	
Alarm Trigger		
Motion		—
Video Loss		<u> </u>
Arm/Disarm Tamper		Normal
Security Switch Tamper		Normal
System Tamper		Normal
Power Failure		Normal
Disk Full		Normal
HDD Fault		Normal
System Restart		Normal
	CLEAR EVENT	

Alarm Trigger	Show alarm trigger status
Motion	Show motion status
Video Loss	Show video loss status
Arm/Disarm Tamper	Show arm/disarm tamper status
Security Switch Tamper	Show security switch tamper status
System Tamper	Show system tamper status
Power Failure	Show power failure input status
Disk Full	Show hard disk usage status
HDD Fault	Show hard disk available status
System Restart	Show system restart status
Clear Event	Clear event that has already reset

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	'	/ideo 📒	Audio 📕									2	016-05-30	11:00												
c	am	30th 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	01																									
	02																									
	03																									-
	04																									
	05																									
	06																							ł		
	07																									
	08																									
E	vent																									
											1	-Q	0 ¹⁻⁸ €		6											
		01	5		11		02 /	55			1	03		5	-		04			Ø						
		K	6		-					1				AN COL					X							
		05				3	06	H	Jan			07	-				08		100							
					P							8/38/28	0 12 4041			in the second se			87/19/2015	STRUM						

Date	Show date of recording log
Time	Show time of recording log
1, 2, 16	Show cameras that performed recording in yellow bars
Event Select	Display detail of the selected event
⇐ ➡	Show previous / next page of recording log
.	Display recording log in smaller time scale
	Display recording log in bigger time scale
1	Search recording log by date and time
ø	Extract video from selected time slot
1-4	Search a camera record

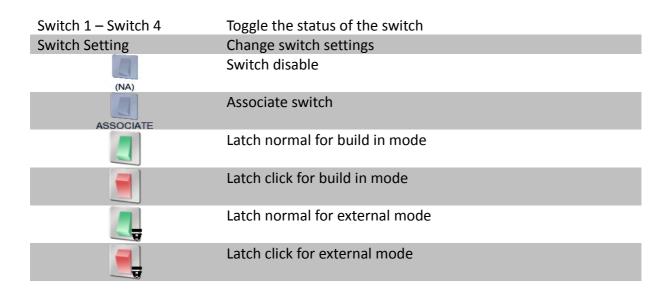
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[Playback] [Sea	► [Search By Date]								
S	Gearch By Date								
Date	2011-11-24								
Time	11:25								
Tod	ау ОК								
	S Date								

Dute	Set the search date
Time	Set the search time
Today	Set date and time to current time
ОК	Search for log closest to the date and time

[Main Menu] [Switch]





[Main Menu] > [Switch] | Switch Setting]

Sw	vitch Setting
	🔶 1 🌩
Name	SWITCH 1
Source	🔶 BUILT IN 🌩
Туре	
Normal State	🔷 N.O. 🌩
Action Delay	10 SECS
Latch Duration	1 MINS

GO	
	• 1
	-

ID	Select the switch		
Name	Name Change the name of switch X		
Source	Select source of switch		
	BUILT IN : use video server relay		
	CAMERA : use external camera switch		
Switch Type	Change the type of switch		
	Latching : Turn on for a period of time		
	• Push button : Turn off 1 second after it is turned on		
Action Delay	Action setting - set the time between turning off and on		
Latch Duration	Action setting - set the time for turning on the switch		

[Main Menu] — [Event Handler]

	Event Handler				
An	m/Disarm				
Se	curity Switch		Ż		
Ala	arm				
Mo	otion				
Vio	deo Loss				
Sy	stem Tamper				
Po	wer Failure				
Dis	sk Usage				
HD)D Fault				
Sy	stem Restart				
Ev	ent Status				

Arm/Disarm	Change arm/disarm settings	
Security Switch	Change security switch settings	
	(Arm/Disarm enabled with Hardware Arm mode only)	
Alarm	Change individual alarm settings	
Motion	Change motion detection settings	
Video Loss	Change video loss event settings	
System Tamper	Change system tamper event settings	
Power Failure	Change power failure event settings	
Disk Usage	Change disk usage warning event settings	
HDD Fault	Change HDD fault event settings	
System Restart	Change system restart event settings	
Event Status	Show all event status	

[Main Menu] -----> [Event Handler] -----> [Arm/Disarm]

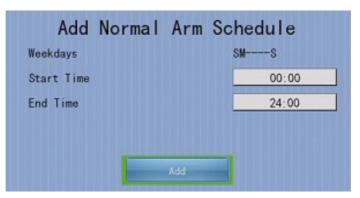
Arm/Di	isarm
Enable	NO
Mode	SOFTWARE ARM
Arm State	CLOSE
Associate Switch	NO
Schedule Arm/Disarm	DISABLE
Normal Arm Schedule	
Holiday Arm Schedule	

Enable	Enable / disable the arm/disarm control	
Mode	Select the arm/disarm mode	
Arm State	Select circuit open/close as system armed(Hardware Arm only)	
Associate Switch	Associate switch 1 to arm/disarm control status	
Schedule Arm/Disarm	Enable / disable schedule arm/disarm (Schedule Arm only)	
Normal Arm Schedule	Set weekly arm/disarm schedule (Schedule Arm only)	
Holiday Arm Schedule	Set holiday arm/disarm schedule (Schedule Arm only)	

[Main Menu] [Event Handler] [Arm/Disarm] [Normal Arm Schedule]

		Normal Arm	Schedule	
No.	Start Time	End Time	Weekdays	
1.	00:00:00	24:00:00	SMS	
2.				
3.				
4.				
5.	2900000000			
6.				
7.				
8.				
9.				
10.				
	*	THE	Detata	*

No.	Show the schedule number	
Start Time	Show the start time of system armed	
End Time	Show the end time of system armed	
Weekdays	Show the weekdays the schedule applied to	
Add	Add a normal arm schedule	
Delete	Delete the selected normal arm schedule	
*	Show previous / next page of schedules	



Weekdays	Set the weekdays the new schedule applied to
Start Time	Set the start time of new schedule
End Time	Set the end time of new schedule
Add	Add the new normal arm schedule

[Main Menu] > [Event Handler] (Arm/Disarm] (Holiday Arm Schedule]

		Holiday Arm	Schedule	
No.	Start Date	End Date	Start Time	End Time
1.	2011-11-01	2011-11-16	07:00:00	19:00:00
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
	*		Defate	*

No.	Show the schedule number
Start Date	Show the start date of schedule
End Date	Show the end date of schedule
Start Time	Show the start time of system armed
End Time	Show the end time of system armed
Add	Add a holiday arm schedule
Delete	Delete the selected holiday arm schedule
↓	Show previous / next page of schedules

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Start Date	Set the start date of new schedule
End Date	Set the end date of new schedule
Start Time	Set the start time of new schedule
End Time	Set the end time of new schedule
Add	Add the new holiday arm schedule

[Main Menu] — Figure [Event Handler] (Security Switch]

Securi	ty Switch
Enable	YES
On State	🔶 CLOSE 🔶
Associate Switch	NO
Tamper Action	

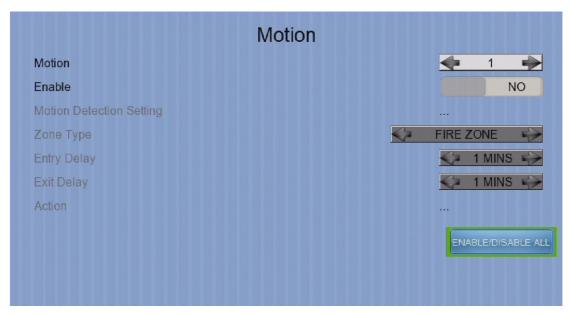
Enable	Enable / disable the security switch
On State	Select circuit open/close as security switch on
Associate Switch	Associate switch 2 to security switch status
Tamper Action	Set actions taken when security switch is tampered

[Main Menu] ----> [Event Handler] ----> [Alarm]

	Alar	rm				
Alarm				\Rightarrow	1	-
Enable						NO
Name					ALARM	1
Source Type				4	BUILT IN	1 4
Sensor Type				4	N.O.	E.
Zone Type			4	NORMAL Z	ONE	-
Entry Delay				-	1 MINS	-
Exit Delay				~	1 MINS	- E
Action						
				Enal	ble/Disab	le All

Alarm	Select an alarm		
Enable	Enable / disable selected alarm		
Name	Change the name of alarm		
Source Type	Select source of alarm		
	BUILT IN : use video server on board alarm		
	CAMERA : use external camera alarm		
Sensor Type	Select circuit open/close as normal alarm state		
Zone Type	Set the zone type:		
Entry Delay	Set the entry delay time (Entry/Exit Zone only)		
Exit Delay	Set the exit delay time (Entry/Exit Zone only)		
Action	Set actions taken when alarm is triggered or tampered		
ENABLE/DISABLE ALL	Enable / disable all alarm		

[Main Menu] ----> [Event Handler] ----> [Motion]



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Camera	Select a camera
Enable	Enable / disable motion event
Motion Detection Setting	Set motion detection settings
Zone	Set the zone type:
Entry Delay	Set the entry delay time (Entry/Exit Zone only)
Exit Delay	Set the exit delay time (Entry/Exit Zone only)
Action	Set actions taken when motion is detected
ENABLE/DISABLE ALL	Enable / disable all motion

[Main Menu] ---> [Event Handler] ---> [Motion] --> [Motion Detection Setting]



Select	Select motion blocks		
Deselect	Deselect motion blocks		
Select All	Select all motion blocks		
Deselect All	Deselect all motion blocks		
Sensitivity	Set the sensitivity level		
Area	Set the area sensitivity (Custom sensitivity only)		
Level	Set the light sensitivity (Custom sensitivity only)		
ОК	Save the motion detection settings		

[Main Menu] ----> [Event Handler] ----> [Video Loss]

Vi	deo Loss
🔶 Camera	🔶 1 🌩
Enable	NO
Action	

Camera	Select a camera
Enable	Enable / disable video loss event
Action	Set actions taken when video loss is detected

Sensor Type	[Main Menu]	ent Handler]	►[System Tamper]
Sensor Type N.O.			System Tamper
		Enable	YES
Action		Sensor Type	< N.O. 🔶
		Action	

Enable	Enable / disable system tamper event
Sensor Type	Select circuit open/close as normal state
Action	Set actions taken when system tamper is triggered

Power	Failure	
Enable	YES	
Sensor Type	N.O.	
Action		

Enable	Enable / disable power failure event
Sensor Type	Select circuit open/close as normal state
Action	Set actions taken when power failure is detected

[Main Menu] → [Event Handler] → [Disk Usage]

Disk U	lsage	
Enable	YES	
Warning Level	50%	
Action	·	

Enable	Enable / disable disk full event
Warning Level	Set the warning level
Action	Set actions taken when disk usage exceeds warning level

[Main Menu] ---->[Event Handler] ---->[HDD Fault]

HC	D Fault
	YES
Action	

Enable	Enable / disable the HDD Fault event
Action	Set actions taken when disk failure or lost

[Main Menu] —	►[Event Handler]	-[System Restart]	
		System Restart	
	Enable		NO
	Action		

Enable	Enable / disable the system restart available event
Action	Set actions taken when system restart abnormally

[Main Menu]	Event Handler Any Event [Action]
	Event Associated Action
	Recording
	Switch
	Dialback
	E-mail
	Mobile Notification
	Buzzer
	Event LED
	Live Camera
	PTZ

Recording	Change event recording settings
Switch	Change event switch settings
Dial Back	Change dialback settings
E-mail	Change e-mail settings
Mobile Notification	Change mobile notification settings
Buzzer	Change buzzer settings
Event LED	Change event LED settings
Live Camera	Change event associated live camera settings
PTZ	Change event associated PTZ camera settings

[Main Menu] → [Event Handler] → Any Event → [Action] → [Recording]

Event Recording			
Enable	YES		
Recording Mode	< 1 FPS 🌩		
Duration After Event Clear	1 MINS		
Recording Camera	12		

	(0 i		
	<u> </u>		
	(\circ)		

Enable	Enable / disable event recording of that event	
Recording Mode	Set event recording frame rate	
	Auto :Record at highest achievable frame rate.	
	The storage size is large.	
	• 1 fps :Record at 1 frame per second. Storage	
	size is comparably small	
Duration After Event Clear	Set the post-event recording time	
Recording Camera	Select cameras performing event recording	

[Main Menu]	[Event Handler] Any Eve	nt>[Action]>[Switch]
	Even	t Switch
	Enable	YES
	Switch	1-3-
	General Switch Settin	e

Enable	Enable / disable switch action of that event
Switch	Select switches turning on when event triggers
General Switch Setting	Set the latch duration and action delay

	⊳[[]vont Llondlon]		⊳[A ationa]	
[Main Menu]	►[Event Handler]	Any Event	→[Action]	[Dial Back]

Enable	YES
Retry Duration (Sec)	10
Retry Count	🐢 3 🖷
Entry 1	
Entry 2	
Entry 3	
Entry 4	
Dial Back Test	

Enable	Enable / disable dialback action of that event
Retry Duration (Sec)	Set the time between each dialback retrial
Retry Count	Set the number of retrial if dialback fails
Entry X	Change the settings of dialback entry X
Dial Back Test	Start the dial back test

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[Main Menu]	► [Event Handler]	Any Event	►[Action]	► [Dial Back]
-------------	-------------------	-----------	-----------	---------------

Dial Back Entry]

Dial Back Entry		
♦Enable	YES	
IP Address	0. 0. 0. 0	
Port	1358	

Enable	Enable / disable the dialback entry
IP Address	Set the dialback IP address when event triggers
Port	Set the dialback port when event triggers

Enable	YES
Image Attachment Associate Camera	
SMTP Server	
E-mail 1	
E-mail 2	
E-mail 3	
E-mail 4	
Sender E-mail	
Action Delay	10 SECS
Max Number of E-mail	4 5 4

Enable	Enable / disable e-mail action of that event
Image Attachment Associate Camera	Change event associated camera for image attachment
SMTP Server	Change SMTP settings
E-mail X	Set the e-mail address of recipient X
Sender E-mail	Set the e-mail address of sender
Action Delay	Set the minimum time between 2 e-mails of the same event
Max Number of E-mail	Set the maximum e-mails of an event until event clear
E-mail Test	Start the e-mail test

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[Main Menu] [Event Handler] Any Event [Action] [E-mail]

SMTP Server	
Server Address	
Port	25
Authentication	NO
User Name	
Password	
Network Setting	
Time Out	🔶 1 🌩
Retry	🔶 1 🌩

Server Address	Set the SMTP server address
Port	Set the SMTP server port
Authentication	Is authentication required for the SMTP server
User Name	Set user name used in authentication
Password	Set password used in authentication
Network Setting	Change the network settings
Time Out	Set the allowed time of sending an e-mail in each trial (in minute)
Retry	Set the number of retrial if fails to send the mail

[Main Menu] ---> [Event Handler] ---> Any Event ---> [Action] ---> [Mobile Notification]

Mobile Notification	ı	
Enable	YES	
Action Delay	10 SECS	-
Mobile Notification Test		
Retry	4 1	
Mobile Notification Advance Setting		

Enable	Enable / disable mobile notification action of that event
Action Delay	Set the minimum time between 2 message of the same
	event
Mobile Notification Test	Start the mobile notification test
Retry	Set the number of retrial if fails to send the message
Mobile Notification	Set mobile notification server
Advance Setting	

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[Mai	in Menu] ──►[Event H	landler]──►Any Event ──►[Action] ──► [Buzzer]	
		Event Buzzer	
		Enable YES	
		Action Delay 10 SECS	
		Duration 30 SECS	
	Enable Action Dolay	Enable / disable buzzer action of that event	
	Action Delay Duration	Set the time between turning off and next turning on Set the time for turning on the buzzer	
	Duration	Set the time for turning on the buzzer	
[]]]	n Manul - [Event II		
livia	in ivienuj	landler] → Any Event → [Action] → [Event LED]	
		Event LED	
	•	Enable YES	
	Enable	Enable / disable LED action of that event	
[Mai	in Menu}──►[Fvent Ha	andler]—_>Any Event —_>[Action]—_>[Live Camera]	
line		Event Live Camera	
		Enable YES	
		Associate Camera -2-4	
	Enable	Enable / disable live camera action of that event	
	Associate Camera	Select cameras to be displayed when event triggers	
[Ma	in Menu]──►[Event H	landler] ──► Any Event ──► [Action] ──►[PTZ]	
		Event PTZ	
	6		
		Associate Camera xxxx-xxxxxxxx	
		Preset Number 1	
	Enable	Enable / disable live camera action of that event	
	Associate Camera	Select PTZ cameras to be displayed when event triggers	
	Preset Number	Select preset position of PTZ camera when event triggers	

[Main Menu] — Footage Extraction]

Footage I	Extraction	
Backup Device	USB 🖷	
Device Name	SanDisk Cruzer Blade	
Total Size	7.90 GB	
Free Size	6.44 GB FORMAT	
Backup From Disk	MASTER	\geq
Mode	NORMAL	
Channel	12345678	
Start Date	2016-03-16	
Start Time	14:00	
Duration	1 MIN	-
Protection	NO	
Password	*****	
EXTR	ACT	

Backup Device	Select device for saving the footage
Device Name	Show the name for selected device
FORMAT	Format the selected USB device
Backup From Disk	Select the source directory
	-MASTER: Source from master hard disk
	-MIRROR: Source from mirror hard disk
Mode	Set extraction mode
	-Normal: Extract at the same recording frame rate, with audio
	-Quick: Extract selected cameras at low frame rate, no audio
Channel	Choose video channels to extract(Select or Quick mode only)
Start Date	Set start date of the footage
Start Time	Set start time of the footage
Duration	Set video length of the footage
Protection	Enable / disable password protection
Password	Set extraction password(Password protection enabled only)
EXTRACT	Start backup using above settings

[Main Menu] → [User]

User Setting	
Security Mode	ADVANCED
Current User POWER ON	
Add Account	
Edit/Delete Account	
Power On Default Right	
Log Out	
Log In As Other User	

Security Mode	Select security mode	
	Advanced :Log in and access right required	
Current User	Display current log in user	
Add Account	Add new account (Advanced mode only)	
Edit/Delete Account	Edit or remove an account (Advanced mode only)	
Power On Default Right	Access right when not logged in (Advanced mode only)	
Log out	User log out (Advanced mode only)	
Log In As Other User	User log in (Advanced mode only)	

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(* For execution, local password of current user is required in advanced mode)

[Main Menu] ----------------[Add Account]

Add Account	
User Name	
Local Password	
Retype Password	
Local Time Out	NO TIME OUT
Account Setting Enable	NO
System Setting Enable	NO
Recording Setting Enable	NO
Video Backup Enable	NO
Event Control Enable	NO
Camera Control Enable	NO
Playback Enable	NO
Audio Enable	NO
Video Monitoring Enable	1—
Switch Enable	
CONFIRM	

User Name	User name of new account (4 – 16 characters)
Local Password	Password for local log in (4 – 10 characters)
Retype Local Password	Confirming the password
Local Time Out	Set the auto logout time when no local operation
Account Setting Enable	Access right setting
System Setting Enable	Access right setting
Recording Setting Enable	Access right setting
Video Backup Enable	Access right setting
Event Control Enable	Access right setting
Camera Control Enable	Access right setting
Playback Enable	Access right setting
Audio Enable	Access right setting
Video Monitoring Enable	Access right setting
Switch Enable	Access right setting
CONFIRM	Create the account

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Local Login Enable		YES	
User Name	U	iser1	
Local Password		**	****
Retype Local Password		**	****
Local Time Out		NO TIME	OUT
Account Setting Enable			N
System Setting Enable			N
Recording Setting Enable			N
Video Backup Enable			N
Event Control Enable			N
Camera Control Enable			N
Playback Enable			N
Audio Enable			N
Video Monitoring Enable		1——	
Switch Enable			

Most settings are the same as [Add Account] menu.

Local Login Enable	Enable / disable local log in (with remote log in right only)
SAVE	Save the account settings
DELETE	Delete the account
*	Show settings of previous / next account

Power On Default Righ	nt		
Account Setting Enable	YES		
System Setting Enable	YES		
Recording Setting Enable	YES		
Video Backup Enable	YES		
Event Control Enable	YES		
Camera Control Enable	YES		
Playback Enable	YES		
Audio Enable	YES		
Video Monitoring Enable	12345678		
Switch Enable	123456789	ABCDEFG	
SAVE			

Most settings are the same as [Add Account] menu.

SAVE

Save the access rights when server startup or local user log out

5.3. Basic Operation

5.3.1. View Live Video

Depends on the model of the TeleEye GN HD Digital Video Recorder, user can view up to 16 live videos at the same time. User can also choose to supervise the video channel one by one using the sequential mode function.

-					
>			Screen S	Selection	
		1	2	3	4
(Right click)		5	6	7	8
		9	10	11	12
		13	14	15	16
		A	FR	FB	
		All	Mode	Next	Sequential
		SWITCH 1	SWITCH 2	SWITCH 3	SWITCH 4
			REC	×	8
		Playback	Recording	Menu	Audio
	Open the [Screen	Selection]	menu		
20	Click on [1] to [16]	to display	that cam	oro in full	croon
	Click on [1] to [16] Click on [All] , [Mo				
	of cameras.				
(Left click)	Click on [Sequential] to start sequential mode.				
	Check on Locquent	ang to start	sequentit	in moue.	

A. By Mouse

5.3.2. Recording

To suit different situations, TeleEye GN supports 3 recording modes: manual recording, schedule

recording and event recording. When a camera is recording, the icon REC will be shown next to its

name and the LED

will light up in red color.

 Manual Recording The start/stop operation is controlled manually by operator. Recording will be performed on all cameras once started. When manual recording is on, schedule recording will be disabled.

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•	Schedule Recording	Recording will be started and stopped according to user defined schedules. Schedules are set on a weekly basis. When schedule recording is enabled, manual recording will be disabled.
•	Event Recording	Event recording will be activated if an event is triggered with its recording action enabled. It can be performed with manual recording or schedule recording simultaneously. Detail description and setup procedure will be given later in the Advanced Operation section.

To change recording mode quickly, right click mouse to open [Screen Selection] and click [Recording].

Recor	ding Mode
Recording	🔷 ON 🖷

Recording

Quick menu for selecting recording mode

- Off :Disable recording
- On :Enable recording of all cameras
- Schedule:Enable schedule recording

To change other recording settings or edit recording schedules, go to the following menus:

[Main Menu] [HDD/Recording]

	HDD/Recording Setting	
Disk Management		
Recording Mode		🔷 ON 🋶
Image Size		
Video Quality		🜗 medium 🋶
Frame Rate		
Disk Mode		< CYCLIC
Recording Redundancy		NO
Schedule Recording		
Recording Retention		
Recover Recording		
Disk Management	View hard disk information	
0	Format and scan disk	
Recording Mode	Select the recording mode	

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Image Size	Set recording resolution		
	 WQHD :2048 x 1536 		
	• 1080P :1920 x 1080		
	• 720P :1280 x 720		
Video Quality	Set video quality		
Frame Rate	Set recording frame rate, applied to all cameras		
	Auto :Record at highest achievable frame rate		
	 X fps :Record at X frames per second 		
	Custom :Enable custom frame rate for individual		
	camera		
Disk Mode	Set disk mode		
	Cyclic :Remove oldest data when hard disk full		
	 Fixed :Stop recording when hard disk full 		
Recording Redundancy	Backup recording video		
Schedule Recording	View or change recording schedules		
Recording Retention	Set recording retention settings		
Recover Recording	Recover damaged recorded video		



Add	Add a new recording schedule
Edit	Edit the selected schedule
Delete	Delete selected schedule
Delete Day	Delete all schedules on the same day as the selected schedule

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n Menu} →[HD[D/Recording] →[Schedu	Ile Recording]	►[Add]
	Add Recordi	ng Schedule	
Weekdays			s—
Start Time(Min 00:	00)		00:00
End Time(Max 24:0	00)		00:10
Frame Rate			🛶 auto 🛶
Recording Type			- Normal -
Camera 1	- DISABLE	Camera 2	- DISABLE
Camera 3		Camera 4	- DISABLE
Camera 5	DISABLE	Camera 6	
Camera 7		Camera 8	
Camera 9		Camera 10	
Camera 11		Camera 12	
Camera 13		Camera 12	
Camera 15	<>> DISABLE <>>	Camera 16	<>> DISABLE
	A	DC	
Motion Setting			
Recording Type	Type of recording sche	dule	
		d when within sch	edule
	Motion :Recor	d when motion de	etected and within
	sched	lule	
	Custom :Record	d based on individ	ual camera setting
Weekdays	Select the weekdays to		le
Start Time	Set the start time of the		
End Time	Set the end time of the		
Camera	Select the cameras to a	pply the schedule	

Set recording frame rate of the schedule

(not applicable for Custom frame rate)

Confirm add the schedule setting

Set motion detection settings

Most settings are the same as [Add] menu.

Frame Rate

Motion Setting

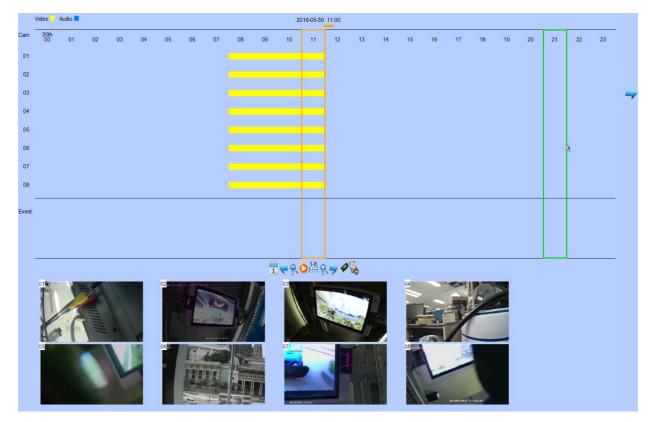
ADD

EDIT Confirm EDIT the schedule setting

5.3.3. Playback

TeleEye GN supports user to view recorded video while not affecting the recording process. A maximum of 4 video channels can be played at the same time.





Date	Show date of recording log
Time	Show time of recording log
1, 2, 16	Show cameras that performed recording in yellow bars
Event Select	Display detail of the selected event
≑ ⇒	Show previous / next page of recording log
e	Display recording log in smaller time scale
	Display recording log in bigger time scale
1	Search recording log by date and time
ø	Extract video from selected time slot
1-4	Search a camera record

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[Main Menu]>[Playback]	—►[Search By Date]	
	Search By Date	
	Date 2011-11-24	
	Time11:25	
	Today OK	
Date	Set the search date	
Time	Set the search time	
Today	Set date and time to current time	

Search for log closest to the date and time

5.3.4. PTZ

OK

When observing video from local monitor, user can select individual video channel by using $\ref{eq:vert}$ (mouse left click). Selected video channel will be pointed by \checkmark icon. User can press $\ref{eq:vert}$ (mouse left click) to take PTZ control, then the selected channel will be highlighted by \diamondsuit icon. For analog PTZ supported channel, User can click of the taking PTZ command after the command box pop-

up on video monitoring screen. User can deselect the PTZ control channel by using 🏷, then the

video channel will be pointed by 🔚	icon.
------------------------------------	-------

-	OSD object selection	÷	Digital /Analog PTZ control
	PTZ tite up		PTZ tite down
	PTZ pan left	$\left \right\rangle$	PTZ pan right
	PTZ function (only for analog PTZ)	6	PTZ command subtract (only for analog PTZ)
(PTZ command add (only for analog PTZ)		PTZ command box (only for analog PTZ)
	PTZ command down (only for analog PTZ)		PTZ command up (only for analog PTZ)

For analog PTZ control, user can select different PTZ command by Solutions, and control the value by Solutions.

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ZOOM	Control zoom in or out
RECALL PRESET:X	Recall saved preset position
PROGRAM PRESET:X	Edit preset position
AUTO PAN	Start auto pan
FOCUS	Control focus near or far
IRIS	Control iris on or off
RECALL PATROL:X	Recall saved patrol
STOP PATROL	Stop patrol
CLEAR PATROL	Clear patrol 1
START TOUR REC	Start tour recording
STOP TORU REC	Stop tour recording
SET LIFT LIMIT	Set life limit position for auto pan
SET RIGHT LIMIT	Set right limit position for auto pan



User can draw privacy mask by mouse or 🔂 buttons.

Camera	Selected video channel
Mask ID	Selected privacy mask id
Mask Status	Enable /disable current privacy mask
	change current camera center
E	Edit size of selected privacy mask
DELETE	Delete current privacy mask

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[Main Menu] → [System] / General PTZ Setting]

General PTZ Setting			
Camera	-	1	
Pan Speed	-	2	-
Tilt Speed	-	2	-
Patrol Speed	-	2	-
Dwell Time	-	2	-

Camera	Selected video channel
Pan Speed	Set pan speed
Tit Speed	Set tilt speed
Patrol Speed	Set patrol speed
Dwell Time	Set dwell time for patrol

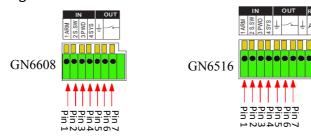
External Keyboard				
Support External Keyboard YES				
Server ID		1		
RS-485 Baud Rate	-	4800		

Support External Keyboard	Display support of external keyboard
Server ID	Set DVR id for PTZ control
RS-485 Baud Rate	Set RS-485 input baud rate

5.4. Advanced Operation

5.4.1. Install Alarm Sensors and Relay Control Port

TeleEye GN supports up to 4 alarm for connecting with alarm sensors, 4 additional input sensors and 1 relay ports for control. The definitions of alarm and relay control ports are shown in the following diagram.



GN6916

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A

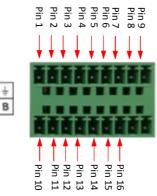
2

3 4

DOWN

Pin assignment for TeleEye GN6516/GN6608

PIN	Function
Pin 1	Arm/Disarm
Pin 2	Security Switch
Pin 3	Power Failure
Pin 4	System Tamper
Pin 5	GND (Alarm in)
Pin 6	Alarm out
Pin 7	Alarm out



Pin assignment for TeleEye GN6916

PIN	Function	PIN	Function	
Pin 1	Arm/Disarm	Pin 10	Power Failure	
Pin 2	Security Switch	Pin 11	System Tamper	
Pin 3	GND	Pin 12	GND	
Pin 4	Alarm1 out	Pin 13	Alarm3 out	
Pin 5		Pin 14		
Pin 6	Alarm2 out	Pin 15	Alarm4 out	
Pin 7		Pin 16	Aldi 114 Out	
Pin 8	GND			
Pin 9	GND			

5.4.2. Circuit Detection

TeleEye GN supports two type of circuit detection on all alarm inputs including arm/disarm input, security switch input, system tamper and power failure input.

NC/NO : Select circuit open/close as system

5.4.3. Event Handling

TeleEye GN HD Digital Video Recorder supports 10 types of event detection and their icons are as follows.

1. Arm/Disarm	🥏 😒
2. Security Switch	
3. Alarm	
4. Motion	
5. Video loss	
6. System Tamper	at the second se
7. Power Failure	
8. Disk Usage	
9. HDD Fault	0
10. System Restart	

Event Icons in Local Monitor

If an event is triggering, its respective icon will be flashing next to the camera name (for motion, video loss) or at the bottom of the screen (for all other event types). If an event has reset and the event status is not yet cleared, the icon will remain static on its original position.

5.4.3.1 Arm/Disarm 🦁 😵

Arm/Disarm input is used for enhancing security level of the surveillance area. This input introduces the concept of 3 zone types of alarm and motion: fire zone, normal and entry/exit zone.



If the system is armed, alarm sensor and motion that is set as normal zone can be triggered immediately if someone triggers the sensor or motion detected. It is usually used when there is no operator at surveillance area.



If the system is disarmed, alarm and motion events detected from sensors will not result in an alarm and motion except the fire zone type alarm, motion and arm/disarm tamper. If there are operators at surveillance area, it is usually disarmed.

Arm/Disarm Mode

TeleEye GN supports 3 different modes of arm/disarm operation:

- Hardware: Use Arm input to arm/disarm, suitable for local operation
- Software: Use software to arm/disarm, suitable for remote operation
- Schedule: Follow preset schedule to arm/disarm, suitable for unmanned location

🕝 Under software and schedule mode, the security switch is not applicable.

There are 2 types of arm schedules:

Normal Schedule	User can set the arm period in terms of weekday. The system	
	would arm according to this weekly schedule.	
Holiday Schedule	User can set the arm date and period for specially handled holiday. If the date is set to holiday schedule, it will follow holiday schedule instead of normal schedule.	

Physical Configuration for Arm/Disarm

The arm/disarm input and ground of TeleEye GN HD Digital Video Recorder needs to connect to a control unit which is commonly a switch or password panel for arm/disarm input.

Arm/D	isarm
Enable	NO
Mode	SOFTWARE ARM
Arm State	CLOSE
Associate Switch	NO
Schedule Arm/Disarm	DISABLE
Normal Arm Schedule	
Holiday Arm Schedule	

Enable	Enable / disable the arm/disarm control
Mode	Select the arm/disarm mode
Arm State	Select circuit open/close as system armed(Hardware Arm only)
Associate Switch	Associate switch 1 to arm/disarm control status
Schedule Arm/Disarm	Enable / disable schedule arm/disarm (Schedule Arm only)
Normal Arm Schedule	Set weekly arm/disarm schedule (Schedule Arm only)
Holiday Arm Schedule	Set holiday arm/disarm schedule (Schedule Arm only)

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[Main Menu] [Event Handler] [Arm/Disarm] [Normal Arm Schedule]

		Normal Arm	Schedule	
No.	Start Time	End Time	Weekdays	
1.	00:00:00	24:00:00	SMS	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
	*	The second secon		

No.	Show the schedule number
Start Time	Show the start time of system armed
End Time	Show the end time of system armed
Weekdays	Show the weekdays the schedule applied to
Add	Add a normal arm schedule
Delete	Delete the selected normal arm schedule
≠⇒	Show previous / next page of schedules



Weekdays	Set the weekdays the new schedule applied to
Start Time	Set the start time of new schedule
End Time	Set the end time of new schedule
Add	Add the new normal arm schedule

[Main Menu] [Event Handler] [Arm/Disarm] [Holiday Arm Schedule]



No.	Show the schedule number
Start Date	Show the start date of schedule
End Date	Show the end date of schedule
Start Time	Show the start time of system armed
End Time	Show the end time of system armed
Add	Add a holiday arm schedule
Delete	Delete the selected holiday arm schedule
↓	Show previous / next page of schedules

[Main Menu] >[Event Handler] >[Arm/Disarm] >[Holiday Arm Schedule] >[Add]



Start Date	Set the start date of new schedule
End Date	Set the end date of new schedule
Start Time	Set the start time of new schedule
End Time	Set the end time of new schedule
Add	Add the new holiday arm schedule

5.4.3.2. Security Switch 🔓 盲



It is an input to the digital video recorder for wiring a security switch. The purpose of the security switch is to terminate the exit delay for exit zone alarm. If the security switch is on and the system is armed, all exit delay will be terminated. If the security switch is off and an entry alarm is triggered, entry delay will start.

On State

If security switch on state is set to close, it indicates security switch on and off of TeleEye GN when the state of the circuit is closed and open respectively. Oppositely, if security switch on state is set to open, it indicates security switch on and off of TeleEye GN when the state of the circuit is open and closed respectively.

• Physical Configuration for Security Switch

The security switch input and ground of TeleEye GN digital video recorder needs to connect to a control circuit which is commonly the lock of the surveillance area for security switch input.



[Main Menu] ---> [Event Handler] ---> [Security Switch]

Securi	y Switch
Enable	NO
On State	<hr/> CLOSE
Associate Switch	NO
Tamper Action	

5.4.3.3 Alarm

It is an input to the digital video recorder from external alarm sensors. Alarm can be used to detect many events occur at the surveillance area, such as fire and illegal entering by someone. The alarm event supports BS 8418:2003 which has arm/disarm and security switch functions.

• Zone Type

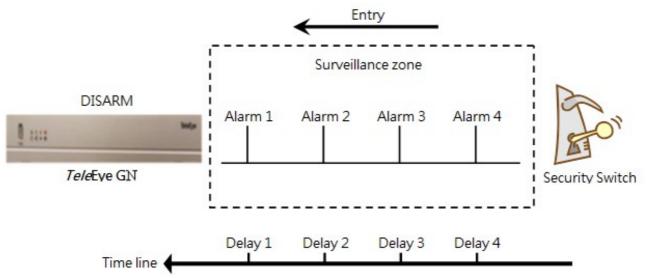
All alarm sensors can be associated with zone types if Arm/Disarm input is installed.

Normal Zone	This zone allows alarms to be triggered after system armed.		
Fire Zone	This zone allows alarms to be triggered no matter which arm state of the system is, i.e. armed or disarmed. It is suitable for installation of fire detectors		
Entry/Exit Zone	This zone allows user to set the delay time for entering or leaving the surveillance area without triggering any alarm event. If alarm recording action is enabled, recording starts at entry or exit time throughout the delay.		

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Example of Entry/Exit Zone WITH Security Switch Usage

For Entry Zone:



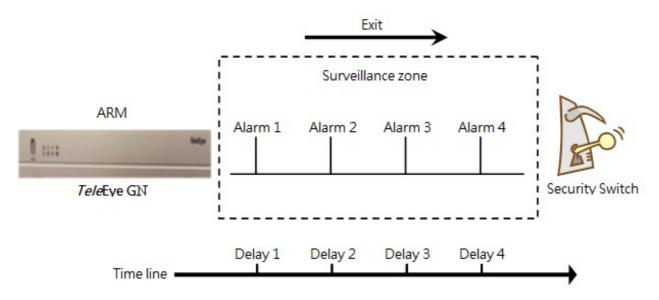
The entry delay is the period of time between entering the surveillance zone and reaching the digital video recorder. In order to disarm the system for maintenance or repair, user / installer needs to turn off the security switch and enter the surveillance zone. The delay timer starts from the 1st trigger by the 1st alarm sensor (i.e. Alarm 4). Note that if user enables recording action, recording action is automatically activated during entry delay.

The detail description is shown as follows:

- 1. User turns off security switch
- 2. The alarm is set at entry delay
- 3. The 1st trigger is made by Alarm 4 (i.e. user enters the surveillance zone and the entry delay time begins)
- 4. 2nd, 3rd and 4th trigger are made and each entry delay starts respectively
- 5. User disarms the system for maintenance

For example: If the time for going from security switch to digital video recorder is about 8 minutes, Delay 4 should be around 8 minutes, while Delay 3 should be longer than the time for going from security switch to Alarm 3, and so on.

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For Exit Zone:

The exit delay is the period of time for leaving a surveillance zone without making false alarm (i.e. Alarm 1 to Alarm 4). The purpose is to let the user / installer have enough time to leave the surveillance zone after the digital video recorder is armed. User / installer can set the delay time for each alarm. Note that if user enables recording action, recording will be activated when an alarm is triggered during exit delay.

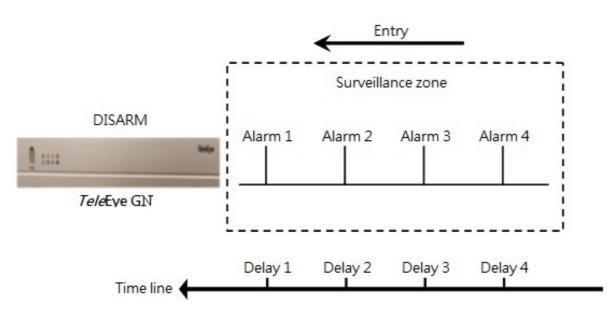
The detail description is shown as follows:

- 1. User arms the system
- 2. The alarm is set at exit delay and timer of all alarms begin
- 3. The 1st trigger is made by Alarm 1 (i.e. user leaves the surveillance zone)
- 4. 2nd, 3rd and 4th triggers are made respectively
- 5. User turns on the security switch or waits for all alarm exit delays to expire.

For example, if the time for leaving the surveillance zone is about 8 minutes, user should adjust the delay time so that Delay 1 = leaving time between the digital video recorder and Alarm 1, Delay 2 = leaving time between digital video recorder and Alarm 2, Delay 3 = leaving time between digital video recorder server and Alarm 3 and Delay 4 should be 8 minutes. The alarm will be activated after the exit delay expired.

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Example of Entry/Exit Zone **WITHOUT** Security Switch Usage **For Entry Zone:**



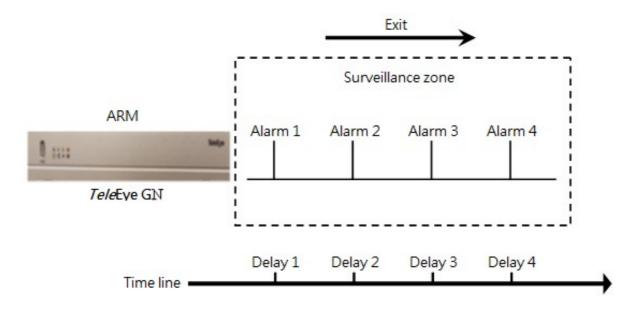
The entry delay is the period of time between entering the surveillance zone and reachingthe digital video recorder. In order to disarm the system for maintenance or repair, user / installer enters the surveillance zone. The delay timer starts from the 1st trigger by the 1st alarm sensor (i.e. Alarm 4). Note that if user enables recording action, recording action is automatically activated during entry delay.

The detail description is shown as follows:

- 1. The alarm is set at entry delay
- 2. The 1st trigger is made by Alarm 4 (i.e. user enters the surveillance zone and the entry delay time begins)
- 3. 2nd, 3rd and 4th trigger are made and each entry delay starts respectively
- 4. User disarms the system for maintenance

For example: If the time for going from security switch to digital video recorder is about 8 minutes, Delay 4 should be around 8 minutes, while Delay 3 should be longer than the time for going from security switch to Alarm 3, and so on.

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For Exit Zone:

The exit delay is the period of time for leaving a surveillance zone without making false alarm (i.e. Alarm 1 to Alarm 4). The purpose is to let the user / installer have enough time to leave the surveillance zone after the digital video recorder is armed. User / installer can set the delay time for each alarm. Note that if user enables recording action, recording will be activated when an alarm is triggered during exit delay.

The detail description is shown as follows:

- 1. User arms the system
- 2. The alarm is set at exit delay and timer of all alarms begin
- 3. The 1st trigger is made by Alarm 1 (i.e. user leaves the surveillance zone)
- 4. 2nd, 3rd and 4th triggers are made respectively
- 5. User waits for all alarm exit delays to expire.

For example, if the time for leaving the surveillance zone is about 8 minutes, user should adjust the delay time so that Delay 1 = leaving time between digital video recorder and Alarm 1, Delay 2 = leaving time between digital video recorder and Alarm 2, Delay 3 = leaving time between digital video recorder and Alarm 3 and Delay 4 should be 8 minutes. The alarm will be activated after the exit delay expired.

Different Combination of Cases of Arm/Disarm, Security Switch and Alarm for the 3 Zone Type

	Initial Stat	e	Step 1	Step 2	Step 3	Result
Alarm	Arm	Security Switch				
			Fire Z	lone		
No trigger	Arm	On	Trigger alarm	\	\	Alarm trigger
	Arm	Off	Trigger alarm	λ	Λ	Alarm trigger
	Arm	Uninstall	Trigger alarm	λ	\	Alarm trigger
	Disarm	\	Trigger alarm	١	\	Alarm trigger
	Uninstall	\	Trigger alarm	١	\	Alarm trigger
	Uninstall	Uninstall	Trigger alarm	\	\	Alarm trigger
			Norma	Zone		
No trigger	Arm	On	Trigger alarm	١	\	Alarm trigger
	Arm	Off	Trigger alarm	Λ	<u>\</u>	Alarm trigger
	Arm	Uninstall	Trigger alarm	Λ	\ \	Alarm trigger
	Disarm	<u> </u>	Trigger alarm	\ \	\ \	No alarm trigger
	Uninstall	<u>\</u>	Trigger alarm	\		Alarm trigger
	Uninstall	Uninstall	Trigger alarm			Alarm trigger
			Entry/Ex	cit Zone		
No trigger	Arm	On	Trigger alarm	Λ		Alarm trigger
	Disarm	Off	Arm.	Trigger alarm.	Security switch	Alarm can be
			Exit delay starts	Recording starts if	on.	triggered any time
				action enabled	Exit delay ends.	after that
					Recording stops	
					Exit delay ends	Alarm can be
					after preset exit	triggered any time
					time.	after that
					Recording stops	
	Arm	On	Security switch off	Trigger alarm.	Disarm	No alarm trigger.
				Entry delay starts.		Recording stops
				Recording starts if	Entry delay ends	Alarm trigger.
				anting an abla d	after preset entry time	Recording don't
				action enabled		stop unless disarn
	Disarm	Uninstall	Arm.	Trigger alarm.	Exit delay ends	System enter
			Exit delay starts	Recording starts if	after preset exit	entry delay
					time.	automatically after next alarm
				action enabled	Recording stops	trigger
	Arm	Uninstall	Trigger alarm.	Disarm	Λ	No alarm trigger.
			Entry delay starts.			Recording stops
				Entry delay ends	λ	Alarm trigger.
			Recording starts if	after preset entry		Recording don't
			action enabled	time		stop unless disarn
	Disarm	+	Trigger alarm		\	No alarm trigger
	Uninstall		Trigger alarm	Ň	Ň	Alarm trigger
	Uninstall	Uninstall	Trigger alarm	Ň	1	Alarm trigger

Physical Configuration for Alarm

The alarm input and ground of TeleEye GN HD digital video recorder need to connect to various kinds of sensors which are commonly installed at entrance or special part of the surveillance area.



[Main Menu] > [Event Handler] > [Alarm]

	Alarm
Alarm	🔶 1 🔶
Enable	NO
Name	ALARM 1
Source Type	SP BUILT IN
Sensor Type	🥪 N.O. 💞
Zone Type	NORMAL ZONE
Entry Delay	See 1 MINS
Exit Delay	1 MINS
Action	
	Enable/Disable All

Alarm	Select an alarm	
Enable	Enable / disable the alarm	
Name	Change the name of alarm	
Source Type	Select source of alarm	
	BUILT IN: use video server on board alarm	
	CAMERA: use external camera alarm	
Sensor Type	Select circuit open/close as normal alarm state	
Zone	Set the zone type:	
Entry Delay	Set the entry delay time (Entry/Exit Zone only)	
Exit Delay	Set the exit delay time (Entry/Exit Zone only)	
Action	Set actions taken when alarm is triggered or tampered	
ENABLE/DISABLE ALL	Enable / disable all alarm	

5.4.3.4. Motion 🚅

Motion detection can be triggered when motion occurs on the camera. Motion detection has different sensitivity levels, which can be set up individually on each video input channel. There are generally 4 options: high, middle, low and custom. Custom option allows user to select the sensitivity level and detection area themselves.

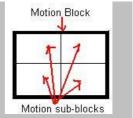


Motion detection example: The selected motion detection area is the crossed area in green color. The motion block will turn to red color when movement is detected.

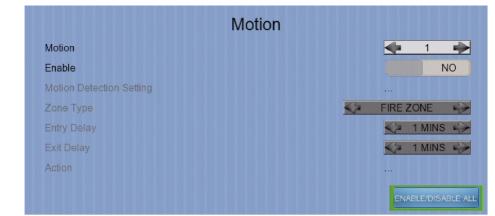
The normal display area cannot detect any motion.

Sensitivity

- Level The definition of level in motion detection is the difference in luminance level between current and reference field. The level range is 1 to 10, with 1 being the most sensitive and 10 being the least sensitive.
- Area In motion detection, one selected motion block is internally divided into four sub-blocks. The definition of area is how many sub-blocks have detected motion in order to trigger a motion event. Any value between 1 and 4 can be set. The more sub-blocks are selected, the lower the motion sensitivity is.



[Main Menu] [Event Handler] [Motion]



Camera	Select a camera
Enable	Enable / disable motion event
Motion Detection Setting	Set motion detection settings
Zone	Set the zone type:
Entry Delay	Set the entry delay time (Entry/Exit Zone only)

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Exit Delay	Set the exit delay time	(Entry/Exit Zone only)
Action	Set actions taken when mo	otion is detected
ENABLE/DISABLE ALL	Enable / disable all motion	



Select	Select motion blocks
Deselect	Deselect motion blocks
Select All	Select all motion blocks
Deselect All	Deselect all motion blocks
Sensitivity	Set the sensitivity level
Area	Set the area sensitivity (Custom sensitivity only)
Level	Set the light sensitivity (Custom sensitivity only)
ОК	Save the motion detection settings

5.4.3.5 Video Loss 📷

Video loss event will be triggered when the video channel input disappears, or the digital video recorder receives no signal from the camera. When this happens, a blue screen would be displayed on the local monitor.

Video Loss Camera 1 1 Enable NO Action ...

Camera	Select a camera
Enable	Enable / disable video loss event
Action	Set actions taken when video loss is detected

5.4.3.6 System Tamper 👗

It is an input to the digital video recorder for wiring a tamper switch of the external cabinet outside the digital video recorder and its accessories. The purpose of system tamper event is to prevent someone from breaking into the cabinet and destroying the digital video recorder.

Physical Configuration for System Tamper

The system tamper input and ground of TeleEye GN HD digital video recorder need to connect to an external cabinet which is used for protecting the digital video recorder and its accessories

	Contraction of the local division of the	
0 ::::	TeleEye	System Tamper Input
		Ground

[Main Menu]	→[Event Handler]	►[System Tamper]
-------------	------------------	------------------

System	n Tamper
Enable	YES
Sensor Type	🛹 N.O. 🛶
Action	

Enable	Enable / disable system tamper event
Sensor Type	Select circuit open/close as normal state
Action	Set actions taken when system tamper is triggered

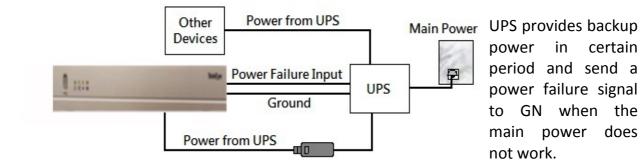
5.4.3.7 Power Failure 🧵

It is an input to the digital video recorder typically used for wiring the output signal pin from an uninterruptible power supply (UPS).

Physical Configuration for Power Failure Input

The power failure input and ground of TeleEye GN digital video recorder need to connect to an universal power supply circuit UPS in order to detect any power failure condition.





The UPS circuit setup above is used as an example. Not all UPS have signal output. Some UPS have self-testing for a period of time. Their signal output may toggle during test.

lain Menu]—-►[I	Event Handler]	ver Failure]
	P	Power Failure
	Enable	YES
	Sensor Type	🔶 N.O. 🌪
	Action	
Enable	Enable / di	sable power failure event
Sensor Type	Select circu	uit open/close as normal state
Action	Set actions	s taken when power failure is detected

5.4.3.8 Disk Usage 🚈

Disk full event will be triggered if hard disk usage exceeds user specified warning level. A total of 6 warning levels can be selected: 50%, 60%, 70%, 80%, 90% and 100%.

[Main Menu] >[Event Handler] |Disk Usage]

Disk	Usage
→Enable	YES
Warning Level	50%
Action	

Enable	Enable / disable disk full event
Warning Level	Set the warning level
Action	Set actions taken when disk usage exceeds warning level

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HDD fault event will be triggered when hard disk failure, bad health or hard disk change with respect to checklist is detected.

	HDD Fau	ılt	
Enable	k	YES	
Action	,		

Enable	Enable / disable the HDD fault event
Action	Set actions taken when disk failure or lost

5.4.3.10 System Restart 📢

System restart event will be triggered when abnormal restart of video recorder is detected.

```
[Main Menu] >[Event Handler] >[System Restart]
```

S	ystem Res	tart	
Enable	8	YES	
Action	,		

Enable	Enable / disable the system restart event
Action	Set actions taken when system restarted abnormally

5.4.4. Event Action

TeleEye GN HD Digital Video Recorder supports 9 types of actions that can be activated by any events mentioned in above section.

- 1. Recording
- 2. Switch
- 3. Dialback
- 4. E-mail
- 5. Mobile Notification
- 6. Buzzer

- 7. Event LED
- 8. Live Camera
- 9. PTZ

5.4.4.1. Recording

When an event is triggered, video recording will be performed on user selected cameras with selected recording mode.

Pre-Event Recording

Pre-event recording allows video recording before an event is triggered. The period of pre-event recording is between 1 and 2 minutes before the event is detected. User can find that there is at least 1 more minute of video in the recording log before event triggering.

Post-Event Recording

After the event is reset, recording will continue until user defined duration time is reached.



Enable	Enable / disable event recording of that event	
Recording Mode	Set event recording frame rate	
	• Auto :Record at highest achievable frame rate.	
	The storage size is large.	
	• 1 fps :Record at 1 frame per second. Storage size	
	is comparably small.	
Duration After Event Clear	Set the post-event recording time	
Recording Camera	Select cameras performing event recording	

5.4.4.2. Switch

The switch action allows the digital video recorder to control 1 external relays which are defined by user.

Switch Type

Two types of switch are supported:

- Latching : The switch turns on for a period of time.
- Push-button: The switch turns off 1 second after it is turned on.

Latch Duration

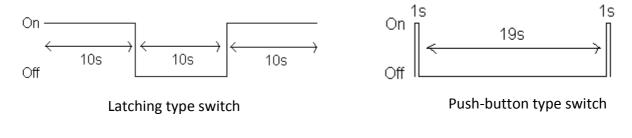
Latch duration is the period of time for turning on the latching type switch.

Action Delay

Action delay is the period of time after the switch is turned off and before turning on again.

Example of Latch Duration and Action Delay

Assuming that the latch duration is 10sec and action delay is 10sec. If an event is triggered, the on/off status of the switch versus time is shown below.



[Main Menu]	→[Event Handler]	→Any Event –	→[Action]	→[Switch]
• •			• •	• •

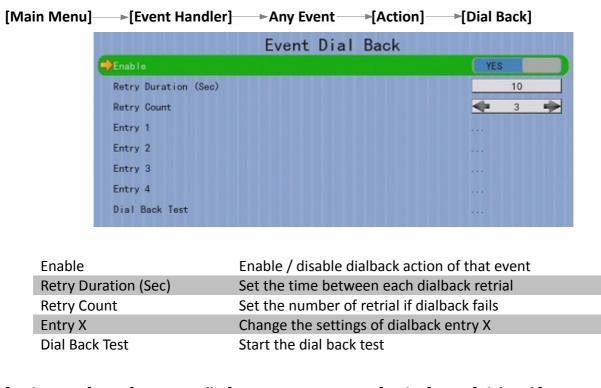
Event Sw	itch
Enable	YES
Switch	1-3-
General Switch Setting	

Enable	Enable / disable switch action of that event
Switch	Select switches turning on when event triggers
General Switch Setting	Set the latch duration and action delay

5.4.4.3. Dialback

Dialback allows the digital video recorder to connect to one remote PC through TCP/IP and displays live video in case an event is triggered. As a result, remote operator can recognize what situation is at the surveillance area.

Great The Java web page can't respond to this request, software like TeleEye sureSIGHT or sureGUARD needs to be installed to the PC to perform dialback.



	[Main Menu]—	→[Event Handler]	Any Event	─►[Action]	→[Dial Back]
--	--------------	------------------	-----------	------------	--------------

D	ial Back Entry
(→Enable	YES
IP Address	0. 0. 0. 0
Port	1358

Enable	Enable / disable the dialback entry
IP Address	Set the dialback IP address when event triggers
Port	Set the dialback port when event triggers

5.4.4.4. E-mail

The e-mail action supports user to send e-mails to recipient address in order to notify the status of triggered event.

[Main Menu] [Event Handler] Any Event [Action] [E-mail]

Event E-mail			
➡Enable	YES		
Image Attachment Associate Camera			
SMTP Server			
E-mail 1			
E-mail 2			
E-mail 3			
E-mail 4			
Sender E-mail			
Action Delay	10 SECS		
Max Number of E-mail	 5		
E-mail Test			

Enable	Enable / disable e-mail action of that event
Image Attachment Associate	Change event associated camera for image attachment
Camera	
SMTP Server	Change SMTP settings
E-mail X	Set the e-mail address of recipient X
Sender E-mail	Set the e-mail address of sender
Action Delay	Set the minimum time between 2 e-mails of the same
	event
Max Number of E-mail	Set the maximum e-mails of an event until event clear
E-mail Test	Start the e-mail test

[Main Menu] > [Event Handler] > Any Event | Action] [E-mail]

[SMTP Server]

SMTP	Server
Server Address	
Port	25
Authentication	NO
User Name	
Password	
Network Setting	
Time Out	🔶 1 🌩
Retry	🔶 1 🌩

Server Address	Set the SMTP server address
Port	Set the SMTP server port
Authentication	Is authentication required for the SMTP server
User Name	Set user name used in authentication
Password	Set password used in authentication

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Network Setting	Change the network settings
Time Out	Set the allowed time of sending an e-mail in each trial (in minute)
Retry	Set the number of retrial if fails to send the mail

5.4.4.5. Mobile notification

The mobile notification action supports user to receive a notification in order to notify the status of triggered event.

[Main Menu] —	→[Event Handler]	 →[Action]	[Mobile Notification]
[main mena]	<pre>[Litent manualer]</pre>	[/ tetton]	[mosne motineation]

Mobile Notification			
	YES		
Action Delay	10 SECS		
Mobile Notification Test			
Retry	💠 1 🌩		
Mobile Notification Advance Setting			

Enable	Enable / disable mobile notification action of that event
Action Delay	Set the minimum time between 2 message of the same
	event
Mobile Notification Test	Start the mobile notification test
Retry	Set the number of retrial if fails to send the message
Mobile Notification	Set mobile notification server
Advance Setting	

5.4.4.6. Buzzer

The built-in buzzer of the digital video recorder can give "Beep" sound that draws nearby operator's attention when an event is triggered.



Enable	Enable / disable buzzer action of that event
Action Delay	Set the time between turning off and next turning on
Duration	Set the time for turning on the buzzer

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5.4.4.7. Event LED

The event LED is the LED on the front panel of TeleEye GN. If an event is triggered, the LED

will keep blinking until the event is cleared.

[Main Menu]	-{Event Handler]	► Any Event	►[Action]	►[Event LED]
		Event	LED	
	Enable		YES	

Enable

Enable / disable LED action of that event

Select cameras to be displayed when event triggers

5.4.4.8. Live Camera

Event associated live camera displays real time live video of pre-selected cameras when an event is triggered. Operator can immediately know what is happening at the site. The live camera action would only be performed once until user clears the event.

[Main Menu]	►[Event Handler]	►Any Event	>[Action]	► [Live Camera]
		Event Live	Camera	
	Enable		YES	
	Associate	Camera	-2-4	-
Enable		Enable / disable	e live camera ad	ction of that event

5.4.4.9. PTZ

Associate Camera

Event associated PTZ camera will move to set preset position when an event is triggered. Operator can immediately know what is happening at the site. The PTZ action would only be performed once until user clears the event.



Enable	Enable / disable live camera action of that event
Associate Camera	Select PTZ cameras to be displayed when event triggers
Preset Number	Select preset position of PTZ camera when event triggers

5.4.5. Footage Extraction

Video footage can be extracted to USB flash device for evidence purposes. Back up video can be played in any PC without special software.

There are 2 extraction modes available:

- Normal mode : Extract recording at original frame rate, with audio
- Quick : Extract recording at lower than it's frame rate without audio, so that this mode can save extracted file size

[Main Menu] Footage Extraction]

Footage Extraction			
Backup Device		usb 🔶	
Device Name	SanDisk	Cruzer Blade 🔶	
Total Size	7.90 GB		
Free Size	6.44 GB	FORMAT	
Backup From Disk		<	
Mode		NORMAL	
Channel		12345678	
Start Date		2016-03-16	
Start Time		14:00	
Duration		1 MIN 🔳	
Protection		NO	
Password		****	
EX	TRACT		

Backup Device	Select device for saving the footage
Device Name	Show the name for selected device
FORMAT	Format the selected USB device
Backup From Disk	Select the source directory
	-MASTER: Source from master hard disk
	-MIRROR: Source from mirror hard disk
Mode	Set extraction mode
	-Normal: Extract at the same recording frame rate, with audio
	-Quick: Extract selected cameras at low frame rate, no audio
Channel	Choose video channels to extract(Select or Quick mode only)
Start Date	Set start date of the footage
Start Time	Set start time of the footage
Duration	Set video length of the footage
Protection	Enable / disable password protection

5.4.6. Throughput Control

Video monitoring performance can be affected by network speed. Throughput control can limit the output data rate of the digital video recorder according to user setting, which should be configured to fit the network bandwidth to avoid delay or rusty video.

[Main Menu]	→[System] –	[Network Setting]
-------------	-------------	-------------------

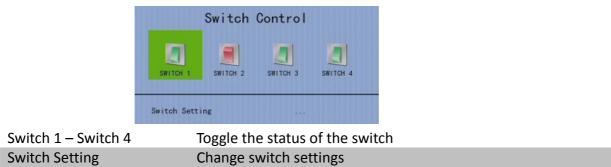
Network Setting	
Auto IP	NO
IP Address	210.17.139.116
Port	1024
Subnet Mask	255.255.255.0
Gateway Enable	YES
Gateway	210.17.139.78
Auto DNS	YES
Primary DNS	8.8.8
Secondary DNS	203.186.94.20
LAN Throughput	< 100 MBPS
Broadband Throughput	< 10 MBPS
Narrowband Throughput	🛶 3 MBPS 🗼
Mobile Throughput	< 512 KBPS
sureLINK Setting	
IP Filtering	
USB Modem	
Video Network Setting	

Auto IP	Enable / disable auto IP from DHCP
IP Address	Set IP address of the digital video recorder
Port	Set port number of the digital video recorder
Subnet	Set subnet mask of the digital video recorder
Gateway Enable	Enable / disable the gateway
Gateway	Set gateway of the digital video recorder
Auto DNS	Enable / disable auto DNS
Primary DNS	Set primary DNS of the digital video recorder
Secondary DNS	Set secondary DNS of the digital video recorder
LAN Throughout	Set the data rate of LAN connection
Broadband Stream Throughput	Set the data rate of broadband connection
Narrowband Stream Throughput	Set the data rate of narrowband connection
Mobile Stream Throughput	Set the data rate of mobile connection
sureLINK Setting	Change sureLINK settings
IP Filtering	Change IP filtering settings
USB Modem	Change 3G modem settings
Video Network Setting	Change video network setting

5.4.7. Switch Control

The external switches connected to the digital video recorder can be controlled through the switch control function. The switch won't follow the latch duration and action delay. It will remain at that state until user toggles it again or an event associated with switch action has triggered.

[Main Menu] ---------[Switch]



5.4.8. Time Synchronization

The time in TeleEye GN can be synchronized with timeserver in the network using the time synchronization function. The GN can work as a timeserver if internal time server is enabled.

[Main Menu] [System] [Date/Time]

	Date/Time	
Time Synchronization Enable		NO
Time Zone		GMT+08:00
Country	🔶 Asia	/Hong_Kong 🔶
Date		2013-04-09
Time		10:57:57
		CHANGE TIME
Primary Time Server		TIME.WINDOWS.CO
Secondary Time Server		TIME.NIST.GOV
		SYNCHRONIZE TIME

Time Synchronization Enable	Enable / disable time synchronization	
Time Zone	Set the time zone	
Country	Select a country	
Date	Set system date (Time sync disabled only)	
Time	Set system time (Time sync disabled only)	
CHANGE TIME	Save the time settings (Time sync disabled only)	
Primary Time Server	Set the primary time server(Time sync enabled only)	
Secondary Time Server	Set the secondary time server(Time sync enabled only)	
Synchronize Time	Perform time synchronization(Time sync enabled only)	

[Main Menu] [System]

System Setting			
Information			
Registration Checking			DISABLE
Built In Web Server		ENABLE	
Language	-	ENGLISH	
Video Network Mode	\triangleleft	SHARED	\rightarrow
Add Camera (In Shared Network)			
Add Camera (In Dedicated Network)			
Camera Setting			
Date/Time			
Network			
External Keyboard			7
Privacy Mask			
PTZ			
Display			
License			
Audio Setting			
System Upgrade			
Import/Export			
Restore Factory			
Maintenance Log Backup			
		*	0

Information	Display general information of the digital video recorder
Registration Checking	Enable / disable remote registration check
Built In Web Server	Enable / disable built in web server
Language	Set display language
Video Network Mode	Change video network mode
Add Camera	Change shared network mode settings
(In Shared Network)	
Add Camera	Change dedicated network settings
(In Dedicated Network)	
Camera Setting	Change camera settings
Date /Time	Change date and time settings
Network	Change connection, throughput and 3G modem settings
External Keyboard	Set external keyboard settings
Privacy Mask	Set PTZ privacy mask
PTZ	Set PTZ arguments
Display	Change local monitoring and audio settings
License	Check server license
Audio Setting	Set audio input and output
System Upgrade	Upgrade system from USB device
Import /Export	Import or export setting files
Restore Factory	Restore default settings
Maintenance Log Backup	Extract digital video recorder log
Restart System Button	Restart the system
Shutdown System Button	Safe shutdown the system

5.4.9. Import and Export

Configurations of the digital video recorder can be exported to an USB flash device for backup purpose, or to copy the settings to another video recorder. When something goes wrong, previously exported settings can be applied through the import function.

[Main Menu] [System] [Setting Import Export] [Import]



Video	Export camera settings if selected
Recording	Export recording settings if selected
Switch	Export switch settings if selected
Date/Time	Export date/time settings if selected
Connection	Export network settings if selected
Event Handler	Export event settings if selected
E-mail/Dialback	Export e-mail and dialback settings if selected
Server	Export server settings if selected
OSD	Export OSD settings if selected
Select All	Select / deselect all settings
Export	Export the selected settings to USB flash device

5.4.10. User Account

In TeleEye GN, advanced security mode supports multiple user accounts with flexible access rights. Users with the *"User Account"* access right can add new account, modify existing account, or delete an account. When system startup or local user logout, access right of local menu will follow the setting of *"Power On Default Right"*. Please refer to the appendix for detail.

User	Setting
Security Mode	
Current User	POWER ON RIGHT
Add Account	
Edit/Delete Account	
Power On Default Right	
Log Out	
Log In As Other User	
Edit Current User Password	

Security Mode	Advanced security mode: Log in and access right required
Current User	Display current log in user
Add Account	Add new account
Edit/Delete Account	Edit or remove an account
Power On Default Right	Access right when not logged in
Log out	User log out
Log In As Other User	User log in
Edit Current User	
Password	

[Main Menu] ----------------[Add Account]

Lacal Password	
Retype Password	
Local Time Out	NO TIME OUT
Account Setting Enable	NO
System Setting Enable	NO
Recording Setting Enable	NO
Video Backup Enable	NO
Event Control Enable	NO
Camera Control Enable	NO
Playback Enable	NO
Audio Enable	NO
Video Monitoring Enable	1
Switch Enable	

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User Name	User name of new account (4 – 16 characters)
Local Password	Password for local log in (4 – 10 characters)
Retype Local Password	Confirming the password
Local Time Out	Set the auto logout time when no local operation
Account Setting Enable	Access right setting
System Setting Enable	Access right setting
Recording Setting Enable	Access right setting
Video Backup Enable	Access right setting
Event Control Enable	Access right setting
Camera Control Enable	Access right setting
Playback Enable	Access right setting
Audio Enable	Access right setting
Video Monitoring Enable	Access right setting
Switch Enable	Access right setting
Confirm	Create the account

[Main Menu] >[User] Edit/Delete Account]

Local Login Enable User Name	ADMINISTRATOR
Local Password	*****
Retype Local Password	*****
Local Time Out	NO TIME OUT
Account Setting Enable	YES
System Setting Enable	YES
Recording Setting Enable	YES
Video Backup Enable	YES
Event Control Enable	YES
Camera Control Enable	YES
Playback Enable	YES
Audio Enable	YES
Video Monitoring Enable	123456789
Switch Enable	1234

Most settings are the same as [Add Account] menu.

Local Login Enable	Enable / disable local log in (with remote log in right only)
Save	Save the account settings
Delete	Delete the account
∕ =₽	Show settings of previous / next account

[Main Menu] [User] [Power On Default Right]

Account Setting Enable	NO
System Setting Enable	YES
Recording Setting Enable	YES
/ideo Backup Enable	YES
vent Control Enable	YES
Camera Control Enable	YES
Playback Enable	YES
ludio Enable	YES
/ideo Monitoring Enable	123456789
Witch Enable	1234

Most settings are the same as [Add Account] menu.

Save Save the access rights when server startup or local user log out

5.4.11. SMS

User can operate 3G network connection of video recorder or make the video recorder dialback to assigned IP and port through sending SMS message when compatible 3G modem is connected to the recorder. For SMS dialback operation, established 3G connection will close automatically about 10 minutes if no dialback user connect to GN under SMS EVENT mode.

Format	Function
teip <ip>:<port>endip</port></ip>	Establish 3G connection by 3G dialup profile, then dialback
	to assigned ip and port. (try dialback only 3G connection
	established successfully)
hang	Disconnect 3G network immediately (only take effect in
	SMS EVENT mode)
profile X	Set 3G dialup profile to X (1 or 2)

The formats of SMS messages and functions are list in table:

	USB Modem
Manufacturer	NOT FOUND
Model	NOT FOUND
Revision	NOT FOUND
Operator	NOT FOUND
Signal Strength (0 - 100)	0
IP Address	NOT DIALUP
Driver Version	1.08
Enable	NO
Enable Dialup By	NO SMS EVENT
Dialup By	SMS EVENT
Dialup By Active Profile	SMS EVENT
Dialup By Active Profile Profile Setting	SMS EVENT

Manufacturer	Manufacturer name
Model	Model
Revision	Firmware version
Operator	3G network operator
Signal Strength	3G network signal strength from 0 to 100
IP Address	3G network IP
Driver Version	Modem driver version
Enable	Enable/ disable 3G modem
Dialup By	Set dialup mode
	 SMS EVENT :Dialup triggered by sms message
	 STARTUP :Dialup after GN startup
Active Profile	Set profile for 3G dialup
Profile Setting	Change profiles settings
Dialup Test	Start dialup test
UPGRADE DRIVER	Upgrade 3G modem driver from USB device

Section 6: Remote Operation

6.1. Network Setup

6.1.1. Port Mapping Setup

Port mapping, also called port forwarding or punch-through, enables you to create a permanent translation entry that maps a protocol port on your gateway machine to an IP address and protocol port on your private LAN. This process enables you to run a public Internet service on a machine that is otherwise hidden from the Internet by your gateway.

To access your TeleEye GN digital video recorder outside your private LAN, you need to do port mapping for your TeleEye GN. For detail setup procedure, please refer to user manual of your router. After finishing the port mapping, you can access your TeleEye GN anytime and anywhere by the IP address and port number through web browser. The address should be in this format: http://IPAddress:Port.

The default port number is 1024, which can be used for port mapping.

6.1.2. sureLINK Setup

sureLINK technology is a group of additional functions and services available in TeleEye GN so as to make it connect to the Internet in any connection methods. With a sureLINK address, you don't have to memorize the IP address and port number of the transmitter, or worry about the dynamically changed IP address. If you can only use broadband dial-up account to connect to the Internet through your computer, sureLINK provides a solution for sharing the Internet connection between your computer and the digital video recorder.

Please refer to the appendix for procedures and configurations on setting up sureLINK.

6.2. Icons Description

When monitoring using web browser, user may see different icons on the control panel or the video. A summary of their meanings can be found in the following table.

	lcon	Description
	REC	Recording
		Playback
		Screen mode selection panel
1.	3.	1. Change page
		2. Change mode
2.	4.	3. Max screen
-		4. Full screen
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Camera selection panel
1.	6. 80	Event status panel 1. Video loss event
	A 3 3	2. Motion event
2. 7	7. 4 4 4 4	3. HDD event
		 Power failure event Alarm tamper event
		 Alarm tamper event System tamper event
3.	8. 🚱	7. Alarm event
1		8. Siren on/off
4. 70	9. 🔀	9. Armed / Disarmed
5.	10.	10. Clear event

		Show menu panel
1.	5. @	Menu panel
-	<i>y</i>	1. Server Setting
2.	6.	2. Audio
		3. PTZ
3. +++	7. 📃	4. View log
		5. Advanced
4. [7]		6. Footage extraction
		7. Switch
		On screen event status
1. 式	2.	1. Motion
		2. Video loss
		Playback panel
1.	4.	1. Rewind
		2. Play
2.	5.	3. Pause
2 11		4. Stop
3.		5. Fast forward
	+	Digital PTZ
	P	Analog PTZ

6.3. Basic Operation

6.3.1. View Live Video

With the built-in web server function enabled, user can access the TeleEye GN digital video recorder easily through web browser.

- Enter IP address plus port number in the format http://IPAddress:PortNumber (e.g. http://192.168.0.12:1024) or *sureLINK* address in web browser address bar. Procedures for getting a *sureLINK* address can be found in the appendix.
- 2. By default, advance security mode is applied and user name is not required. Enter password and press [**Connect**].

(The default administrator password is *"0"+"digits of serial number"*. There is an example:

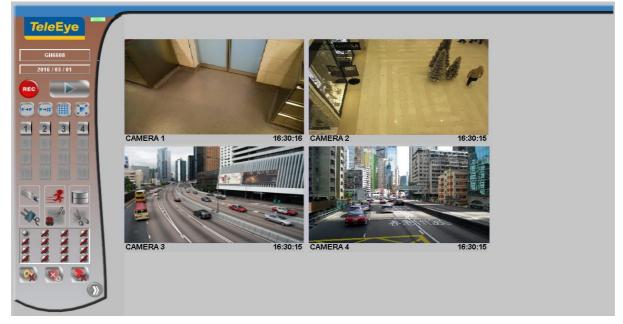
Serial Number :GNS<mark>11529</mark>

User Name : admin

Default Password : 011529

Details can be found in the registration code sheet)





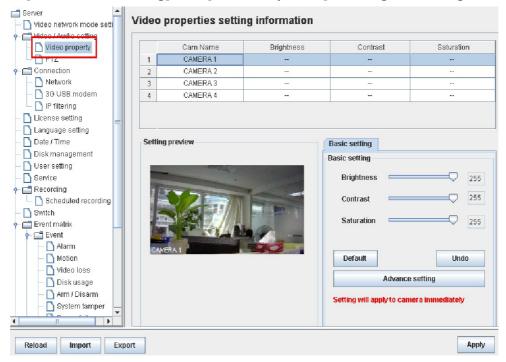
3. Use screen mode selection panel and camera selection panel to view video.

If a cross sign is shown at the top left corner of the web page, it implies that Java JVM is not installed in the computer. It can be obtained through the following methods

- Install through the software CD in the package
- Download from <u>http://www.java.com</u> and install it

If the camera setting does not fit the environment, select

[Server] > [Video/Audio Setting] > [Video Properties] to change the configuration.



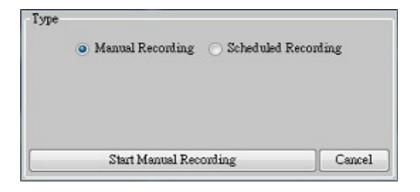
6.3.2. Recording

According to different situations, user can select suitable recording mode.

A. Manual Recording

The start/stop operation is controlled manually by operator. Recording will be performed on all cameras once started

1. To start or stop manual recording, click on [Recording] button on the main panel.



2. To change recording settings, go to **[Server] [Recording]** in setting page.

Recording setting	
Recording Start manual Star	rt schedule Stop
	t schedule Stop
Manual recording setting	
Frame rate (for manual recording):	Custom 🔻 Detail
Disk mode:	Cyclic 💌
Quality:	Low High
Image size:	HD
Recording retention	
Remove recorded video after:	999 - day(s)
Remove recorded video at:	23 - : 59 -
Maintenance	
Rebuild recording log Start	Status: Ready

B. Schedule Recording

TeleEye GN supports 2 types of recording schedule: Normal and Motion. Motion recording records video only when motion is detected in selected surveillance area.

- 1. To start or stop schedule recording, click on **[Recording]** button on the main panel.
- 2. To view or edit the schedules, go to [Server] [Recording] >

[Scheduled Recording].

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Thu			
00:00								Period	Туре	Camera	Frame ra
01:00								00:00 - 23:00		1	auto
02:00								20.00	Normal	•	dato
03:00											
04:00											
05:00											
06:00											
07:00											
08:00											
09:00											
10:00											
10:00											
10:00 11:00											
10:00 11:00 12:00 13:00 14:00											
10:00 11:00 12:00 13:00											
10:00 11:00 12:00 13:00 14:00 15:00 16:00											
10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00								Normal	T	ndaw	Ad
10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00									T	oday	Add
10:00 11:00 12:00 13:00 14:00 15:00 15:00 16:00 17:00 18:00 19:00								Normal Notion	Т	oday	
10:00 11:00 12:00 13:00 14:00 15:00 16:00 16:00 17:00 19:00 20:00								Motion	Т	oday	
10:00 11:00 12:00 13:00 14:00 15:00 16:00 16:00 17:00 18:00 19:00 20:00 21:00									Τι	oday	Edi
10:00 11:00 12:00 13:00 14:00 15:00 16:00 16:00 17:00 19:00 20:00								Motion	T	oday	Add Edi

Schedule recording setting

3. To select a schedule, simply click on the graphical representation of the schedule. A list of that day's schedules will show on the right hand side.

C. Recording Rebuild

Recording log can be recovered by using recording rebuild function when user can not play back the recording. User can go to [Server] — [Recording], under part of [Maintenance] click [Start] to start rebuild process.

Start	Status: Ready
	Start

6.3.3. Playback

Recorded video can be played back through web browser without affecting the recording process

1. Click on [Playback] button to show the recording log.

		Playback Log:	2016/03/17			
Time	Camera	Event	Remark	Alarm Sensor	Motion Detection	Video Loss
00:00						
01:00						
02:00						
03:00						
04:00						
05:00						
06:00						
07:00						
08:00	1234					
09:00	1234					
10:00	1234					
11:00						
12:00						
13:00						
14:00						
15:00						
16:00						
17:00	1234					
18:00						
19:00						
20:00						
21:00						
22:00						
23:00						
	00.00 01:00 02:00 03:00 04:00 05:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 14:00 15:00 14:00 15:00 14:00 15:00 14:00 19:00 20:00 21:00 22:00	00.00 01.00 02.00 03.00 03.00 04.00 05.00 05.00 05.00 05.00 05.00 06.00 12.3.4 09.00 12.3.4 10.00 12.3.4 11.00 12.00 14.00 15.00 16.00 18.00 19.00 20.00 21.00	Time Camera Event 00:00 0 0 01:00 0 0 02:00 0 0 03:00 0 0 04:00 0 0 05:00 0 0 06:00 0 0 07:00 0 0 08:00 1 2 3 4 0 09:00 1 2 3 4	Time Camera Event Remark 00:00 0 Image: Camera Image: Camera 01:00 0 Image: Camera Image: Camera 01:00 0 Image: Camera Image: Camera 02:00 0 Image: Camera Image: Camera 03:00 0 Image: Camera Image: Camera 04:00 0 Image: Camera Image: Camera 04:00 0 Image: Camera Image: Camera 05:00 0 Image: Camera Image: Camera 06:00 0 Image: Camera Image: Camera 06:00	TimeCameraEventRemarkAlarm Sensor00:000IIII01:000IIII02:000IIIII03:000IIIII04:000IIIII05:000IIIII06:000IIIII07:000IIIII08:0012:34IIIII10:0012:34IIIII11:00IIIII12:00IIIII15:00IIIII16:00IIIII19:00IIIII19:00IIIII19:00IIIII19:00IIIII19:00IIIII19:00IIIII19:00IIIII19:00IIIII19:00 <td< td=""><td>TimeComeraEventRemarkAlarm SensorMotion Detection00.0001.00II02.00IIII03.00IIII04.00IIII05.00IIII05.00IIII05.00IIII05.00IIII05.00IIII05.00IIII05.00IIII05.00</td></td<>	TimeComeraEventRemarkAlarm SensorMotion Detection00.0001.00II02.00IIII03.00IIII04.00IIII05.00IIII05.00IIII05.00IIII05.00IIII05.00IIII05.00IIII05.00IIII05.00

2. Choose a log entry and select a camera to start playback.

SELECT ONE CAMERA					
Select one camera for playback					
CAM 1	~				
確定 取消					

6.4. Advanced Operation

6.4.1. Hard Disk Formatting

Hard disk formatting is done to reconstruct the disk in recognizable format, clean up the recording space, and redeem the file allocation. Beware that formatting will erase all data within the hard disk, backup important data beforehand. Remote login password is required for this operation. 1. Go to [Server] [Disk Management] in remote setting page.

Slot	Model number	Serial number	Capacity	Disk usage	🔒 On / Off *
3	ATA ST31500341AS	6VS072JS	1464 GB	Cyclic (3%)	V'
	100%				Format selected d

🕝 Do not close the browser or alter the hard disk until the process is complete.

6.4.2. Hard Disk Scanning

Disk scanning is performed in an attempt to fix noticeable hard disk error, and to enhance its performance and reliability. Remote login password is required for this operation.

Go to [Server] [Disk Management], click "Scan all disk" in remote setting page.

G Do not close the browser or alter the hard disk until the process is complete.

6.4.3. Hard Disk Turn On/OFF

Problematic disk can be drawn from recording disk list by turning it off, so that the disk will not affect reliability of system. Remote login password is required for this operation.

disk in remote setting page.

🕝 Restart system is required for any disk turn on or off

6.4.4. Event Handling

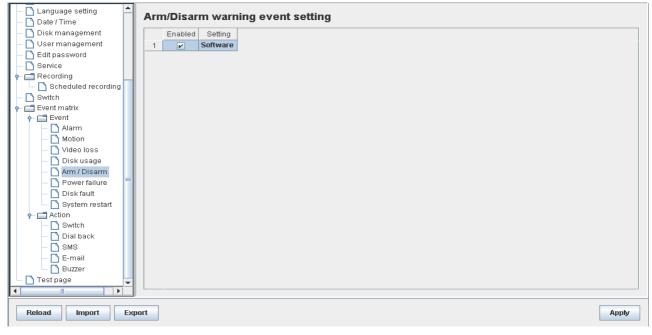
TeleEye GN digital video recorder supports different types of event detection. This section shows the configuration of event settings.

G Please refer to 4.4.1. Install Alarm Sensors and Relay Control Port for setup detail and 4.4.3. Event Handling for descriptions of different events and their corresponding settings

6.4.4.1. Arm/Disarm

Arm/Disarm input is used for enhancing security level of the surveillance area.

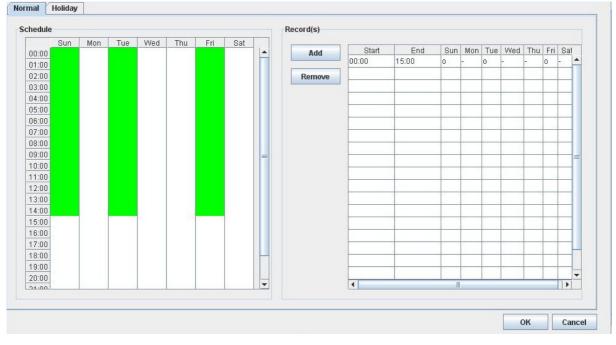
1. Go to [Server], select [Event Matrix] → [Event] → [Arm/Disarm].



2. To change arm/disarm settings, click on [Arm Setting].

Arm/Disarm setting	đ
Arm/Disarm mode	
🔾 Hardware mode	
Software mode	
Schedule mode	Schedule setting
Arm type	Tamper
O Normal close	None
	Single End of Line (SEOL)
Normal open	O Double End of Line (DEOL)
Associate switch 1	
	OK Cancel

 To add or remove arm schedules, click on [Schedule Setting]. Use the tap [Normal] and [Holiday] on the top left corner to select normal schedule or holiday schedule.



Sta	art date	End date	Start time	End time				
01/0	1/2012	01/01/2	00:00	04:00				
			-					
3			-					
-				<u>k</u>				
-			-					
-								
-								
-								
_			_	<u> </u>				
		-						
								ОК

6.4.4.2. Alarm

Alarm can be used to detect many events, such as fire and illegal entering by someone.

1. Go to [Server], select [Event Matrix] → [Event] → [Alarm].

Alarm event setting

	Name	Enabled	Setting	Live	Recording	Switch	Dial back	E-mail	SMS	F
1	ALARM 1	×.	NO/None							
2	ALARM 2		NO/None							
3	ALARM 3		NO/None							
4	ALARM 4		NO/None							
5	ALARM 5		NO/None							
6	ALARM 6		NO/None							
7	ALARM 7		NO/None							
8	ALARM 8		NO/None							
9	ALARM 9		NO/None							
10	ALARM 10		NO/None							
11	ALARM 11		NO/None							
12	ALARM 12		NONone							
	•									

2. Click on [Alarm Setting] and select appropriate settings in the pop up menu.

Alarm setting	ď
Type Normal open Normal close	
Zone type	
Normal	
🔾 Fire zone	
Entry/Exit zone	Entry delay: 1 min 👻
	Exit delay: 1 min 💌
Alarm source	
Built-in	🔾 Camera
	OK Cancel

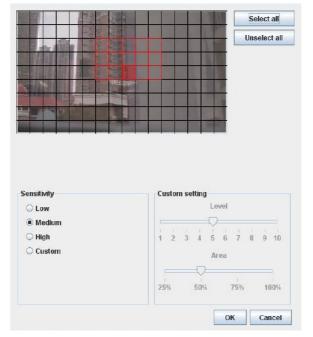
6.4.4.3. Motion

Motion event is triggered when movement is detected inside the surveillance area of a camera.

1. Go to [Server], select [Event Matrix] → [Event] → [Motion].

 Video property 		Name	Enabled	Setting	Zone type	Live	Recording	Switch	Dial back	E-mail	SMS	PTZ
- 🗖 Advance privacy Mask	1	CAMERA 1	~	Medium	Fire zone							
Connection	2	CAMERA 2		Medium	Fire zone							
- 🗋 Network	3	CAMERA 3		Medium	Fire zone							[]
– 🗋 3G USB modem	4	CAMERA 4		High	Fire zone							
- 🗋 IP filtering	5	CAMERA 5		Medium	Fire zone			00000		_ ····		[]
- 🗋 License setting	6	CAMERA 6		Medium	Fire zone							
- 🗋 Language setting	7	CAMERA 7		Medium	Fire zone							
- 🗋 Date / Time	8	CAMERA 8		Medium	Fire zone							0
- 📑 Hard disk management	9	CAMERA 9		Medium	Fire zone					· ····		
🗕 🗋 HDD health status	10	CAMERA 10		Medium	Fire zone							
🗋 User setting	11	CAMERA 11		Medium	Fire zone		_			_		
C Recording	12	CAMERA 12		Medium	Fire zone							0 -
🗕 🗋 Scheduled recording	13	CAMERA 13		Medium	Fire zone					_		
- 🗋 Switch	14	CAMERA 14		Medium	Fire zone							0 -
Event matrix	15	CAMERA 15		Medium	Fire zone			0 00000		_		
r	16	CAMERA 16		Medium	Fire zone							0 -
Alarm Alarm Motion Video loss Disk usage Arm / Disarm Security switch System tamper		•										

2. Click on **[Setting]** to pop up **[Motion Setting]** menu. Left click mouse and drag to select the surveillance area or right click mouse and drag to deselect the area. Outlines of selected blocks will display in red color. Blocks filled with red color means motion is detected.



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3. Click on [Zone Type] to change the operational zone.



6.4.4.4. Video Loss

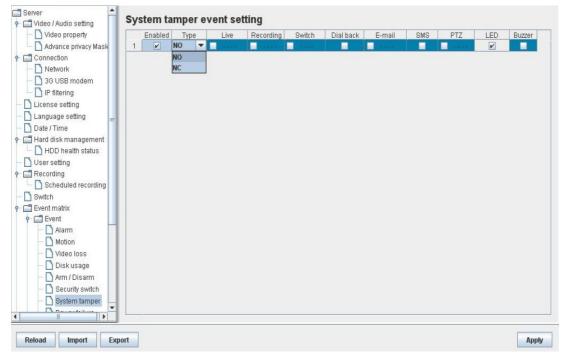
Video loss event is triggered when the digital video recorder receives no signal from the camera. A blue screen would be displayed when this happens.

- 1. To enable video loss detection, go to [Server] ----> [Event Matrix] ---->[Event]
- ──► [Video loss].

— 🗋 Video property		Name	Enabled	Live	Recording	Switch	Dial back	E-mail	SMS	PTZ	LED	Buzzer
- 🗋 Advance privacy Mask	1	CAMERA 1	~								V	
Connection	2	CAMERA 2						·····			V	
- 🗋 Network	3	CAMERA 3									V	
– 🗋 3G USB modem	4	CAMERA 4									V	
- D IP filtering	5	CAMERA 5									V.	
License setting	6	CAMERA 6									V	
🗅 Language setting 📃 📃	7	CAMERA 7						····			V.	
🗋 Date / Time	8	CAMERA 8									V	
🗐 Hard disk management	9	CAMERA 9									V.	
— 🗋 HDD health status	10	CAMERA 10									V	
User setting	11	CAMERA 11									V	
Recording	12	CAMERA 12									V	
Scheduled recording	13	CAMERA 13		00000							V.	
Switch	14	CAMERA 14									V	
Event matrix	15	CAMERA 15		0.0000							V.	
r ☐ Event	16	CAMERA 16									V	
Motion Mideo loss Disk usage Arm / Disarm Security switch System tamper	-	•										

6.4.4.5. System Tamper

System tamper prevents someone from breaking into the cabinet and destroying the digital video recorder.



6.4.4.6. Power Failure

[Power Failure Input].

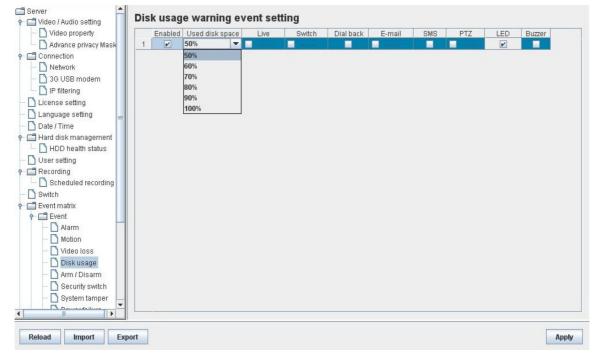
This event is triggered when any power failure condition is detected.

- 1. To change the event settings, go to [Server] --> [Event Matrix] --> [Event]
 - 📋 Advance privacy Mask 🖌 Power failure event setting Connection Network Switch Dial back E-mail SMS PTZ Recording Enabled LED Buzzer Type Live 3G USB modem NO V V IP filtering NO License setting 🗋 Language setting 🗋 Date / Time 👇 🗂 Hard disk management 🗋 HDD health status 🗋 User setting - C Recording Scheduled recording Switch - 📑 Event matrix Alarm Motion N Video loss 🗋 Disk usage 🗋 Arm / Disarm Security switch 🗋 System tamper Power failure 🗋 HDD fault 🗋 System restart ←
 「
 ■ Action Reload Import Export Apply

6.4.4.7. Disk Usage

Disk usage event is triggered if hard disk usage exceeds user specified warning level.

- - →[Disk Usage Level].



6.4.4.8. Disk Fault

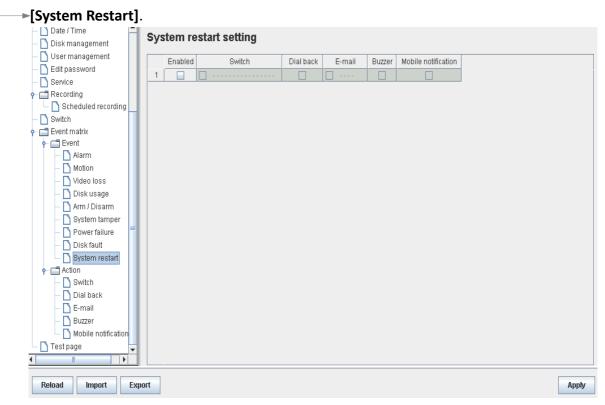
Disk available event is triggered when hard disk change or failure is detected. This event is enabled by default.

1. To disable the event, go to [Server] [Event Matrix] [Event]

– 🗋 Date / Time – 🗋 Disk management	Di	sk fault	event setting					
– 🗋 User management		Enabled	Switch	Dial back	E-mail	Buzzer	Mobile notification	
— 🗋 Edit password	1	V						
– 🗋 Service	_							
r - □ - □								
🗆 🗋 Scheduled recording								
– 🗋 Switch								
← ☐ Event matrix								
P- □ Event								
— 🗋 Alarm								
— 🗋 Motion								
— 🗋 Video loss								
— 🗋 Disk usage								
— 🗋 Arm / Disarm								
— 🗋 System tamper								
– 🗋 Power failure 👘								
- 🗋 Disk fault								
System restart								
- Cation								
- Switch								
- 🗖 Dial back								
- 🗋 E-mail								
- 🗋 Buzzer								
Mobile notification								

6.4.4.9. System restart

The system restart event will be triggered if the TeleEye GN digital video recorder is restarted or powered off abnormally. Pre-selected actions will be taken immediately after the system is started up again.



6.4.5. Event Action

User can define the set of actions to be taken by TeleEye GN when an event is triggered. This section shows the configuration of action settings.

🕝 Please refer to 4.4.4. Event Action for descriptions of different actions and their settings

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6.4.5.1. Recording

If an event is associated with recording action, recording will be performed on pre-selected cameras when this event is triggered.

 To change the settings, go to [Server] --> [Event Matrix] --> [Event]. Choose an event and click on [Recording] column.

Recording action				Ø
✓ Enable recor Recording external				
On event rese	et, stop recording	after:		1 min 💌
recording m	recording car	iera		
🔾 Auto	1	2	3	4
l fps	AI	I	No	ne
			ОК	Cancel

6.4.5.2. Switch

If an event is associated with switch action, user selected switches will turn on when this event is triggered.

1. To change the switch properties, go to [Server] >[Event Matrix] >[Action] [Switch].

Switch actio	n setting	
Action delay:	10 sec 💌	(The period for switch action when event retriggered)
Latch duration:	1 min 💌	(Only apply for latch switches)

2. To enable the switch action, go to [Server] →[Event Matrix] →[Event]. Choose an event and click on [Switch] column.

Enable switch a Switch a Switch control	ction	
Switch 1		Switch 2
Switch 3		Switch 4
Action delay:	10 sec 💌	(The period for switch action when event retriggered)
Latch duration:	1 min 💌	(Only apply for latch switches)

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6.4.5.3. Dialback

If an event is associated with dialback action, the digital video recorder will request for connection automatically when this event is triggered.

1. To change the settings, go to [Server] ----------------[Action]

→[Dial Back].		
- 🗋 Date / Time	Piel back action action	
Disk management	Dial back action setting	
– 🗋 User management	1. IP address: 0.0.0.0 Port: 2048 (1-65535)	
– 🗋 Edit password		
- 🗋 Service	2. IP address: 0 . 0 . 0 . 0 Port: 2049 (1-65535)	
←	3. IP address: 0 . 0 . 0 . 0 Port: 2050 (1-65535)	
- 🗋 Switch	4. IP address: 0.0.0.0 Port: 2051 (1-65535)	
🕂 📑 Event matrix		
P-	Reconnect duration: 10 - sec	
- 🗋 Alarm	Retry count: 3	Test
— 🗋 Motion — 🗋 Video Ioss		TOOL
- Disk usage		
- Arm / Disarm		
- System tamper		
- N Power failure		
- 🗋 Diskfault		
System restart		
- Cation		
- 🗋 Switch		
— 🗋 Dial back		
— 🗋 E-mail		
– 🗋 Buzzer		
— 🗋 Mobile notification		
🗆 🗋 Test page 📃 🖵		
Reload Import Expo	rt	Apply

To enable the action, go to [Server] [Event Matrix] [Event]. Choose an event and click on [Dial Back] column.

The Java web page can't respond to dialback request, software like TeleEye sureSIGHT or sureGUARD needs to be installed to the PC to perform dialback.

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6.4.5.4. E-mail

If an event is associated with e-mail action, a notification e-mail will be sent when this event is triggered.

- 1. To change e-mail settings, go to [Server] >[Event Matrix] >[Action]
 - ──►[E-mail].

Server Information	Account
SMTP server: 2: Require authentication Account Name: Password: Timeout: 1 min	Email address 1:
Retry count: 1	
General setting	

To enable the action, go to [Server] → [Event Matrix] → [Event]. Choose an event and click on [E-mail] column.

6.4.5.5. Buzzer

If an event is associated with buzzer action, a "Beep" sound will be produced to draw nearby operator's attention when this event is triggered.

Buzzer acti	on setting	l.	
Duration:	30 sec 💌	(Duration of siren when event triggered)	
Action delay:	10 sec 💌	(Delay time of siren when event re-triggered)	

To enable the action, go to [Server] → [Event Matrix] → [Event]. Choose an event and click on [Buzzer] column.

6.4.5.6. Mobile notification

If an event is associated with mobile notification action, a mobile notification will be sent when this event is triggered.

- 1. To change buzzer settings, go to [Server] [Event Matrix] [Action]
- ──►[Mobile notification].

Mobile not	ification setting
Action delay:	10 sec 💌
Retry count:	1 💌

2. To enable the action, go to [Server] — [Event Matrix] — [Event]. Choose an event and click on [Mobile notification] column.

6.4.5.7. Event LED

If an event is associated with LED action, the LED 💑 built on the front panel of TeleEye GN will

blink when this event is triggered. This action is enabled by default.

To disable the action, go to [Server] --> [Event Matrix] --> [Event]. Choose an event and click on [LED] column.

6.4.5.8. Live Camera

If an event is associated with live camera action, real time live video of pre-selected cameras will be displayed immediately when this event is triggered.

To change the settings go to [Server] -- [Event Matrix] -- [Event]. Choose an event and click on [Live] column.

5	6	7	8
9	10	11	12
13	14	15	16

6.4.5.9. PTZ

If an event is associated with PTZ camera action, associated PTZ camera will move to preset position when this event is triggered.

To change the settings go to [Server] -{Event Matrix] -{Event]. Choose an event and click on [PTZ] column.

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9	10	11	12
13	14	15	16

6.4.6. Pan Tilt Zoom (PTZ)

PTZ operations can be performed easily when a PTZ supported camera is connected to TeleEye GN digital video recorder .

1. Go to [Menu] > [PTZ] to open the PTZ control panel.

			P uto On uto Off	Contr Contr Cam 1	
	Recall I	Preset			
1	2	3	4		
5	6	7	8		
9	10	11	12		
13	14	15	16		-
Slow < Slow < Program Pie	 () () () () () () () () () () () () ()	Ti	un Speed It Speed	, , Additional	
Program	1 5 9 13	2 6 10 14	3 7 11 15	4 8 12 16	

Button	Description
	Tile the camera up
	Tile the camera down
	Pan the camera left
	Pan the camera right
	Zoom in
Ø	Zoom out
Auto On	Pan automatically until [Auto Off] is clicked
Auto Off	Stop the auto pan operation
Slow Fast	Set the pan speed
Slow	Set the tilt speed
Program Preset Recall Patrol Edit Patrol Additional Program 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Configure the desired direction and lens' settings as the preset positions for recall preset and patrol operation
Recall Preset 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Move to the pre-defined preset location by clicking the 16 numeric buttons

The meaning of each icon is summarized in the following table:

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	Add or delete preset positions associated with patrol tour
Program Preset Recall Patrol Edit Patrol Additional	using the 16 numeric buttons
Add Delete 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
	 Start the patrol operation when [Patrol1] is
Program Preset Recall Patrol Edit Patrol Additional	clicked
	• Stop the patrol operation when [Stop Patrol] is
Patrol 1 Patrol 2	clicked
Patrol 3 Patrol 4	
Stop Patuol	
	Restore default setting by clicking [Set Default]
Program Preset Recall Patrol Edit Patrol Additional	• Delete the patrol 1 by clicking [Clr. Patrol 1]
Set Default Limit R/L	• Move to preset 1 automatically when left idle for
Clr. Patrol 1 Tour Rec.	a certain time, with [Home On] activated
Home On A9	Cancel the [Home On] operation by clicking
Home Off A8	[Home Off]
CSD A10	

6.4.7. Footage Extraction

Video footage can be extracted through network.

1. Go to [Menu] [Footage Extraction]

Footage Extra	action		
Transmitter Record	ling Information		
Start Time	12/04/2013 12:16:49		
End Time	12/04/2013 13:31:00		
Capacity	3903GB		
Used Space	0%		
Extract To			
		Browse	
Camera			Mode
	3 74 75 7	6 7 78	O All Cameras
			 Selected Cams
		Clear All	O Quick
Start Date/Time			
12/04/2	013 13:00 🗢 🛛 Recor	ding Start Time	Current Hour
End Date/Time	ath	Estimated End Date/	Time:
		12/04/2013 13:01:0	
1 🗘	Minutes	j12/04/2015 15:01:0	0
O Memory Siz	e	Estimated Size:	
1 0	MB (Maximum 4700)	1	
Encryption			
Password Pro	tection Enable		
	_		
L			
		Start F	xtraction Cancel
		Diarte	

2. When extraction completes, open the selected folder and double click *"TPPlayer.exe"* to view the extracted video.

6.4.8. Throughput Control

Throughput control can limit the output data rate of the digital video recorder. To avoid possible downgrade in video monitoring performance, this setting should be configured to fit the network bandwidth.

LAN stream	100 Mbps	-
Broadband stream	10 Mbps	-
Narrowband stream	64 kbps	-
Mobile stream	64 kbps	-

6.4.9. Switch Control

Besides controlling through event action, user can also control the external switches directly.



If user wants to change the switch settings, go to [Menu] → [Server Setting] → [Switches].

L) PTZ Switch setting Connection Network Name Туре Normal state Camera / Build in] 3G USB modem SWITCH 1 1 Latching ▼ NO -IP filtering 2 SWITCH 2 ▼ NO ¥ Latching License setting 3 SWITCH 3 ▼ NO **-** Built-in • 🗋 Language setting Latching 4 SWITCH 4 Latching ▼ NO ▼ Built-in -🗋 Date / Time 🗋 Disk management 🗋 User setting Service 📑 Recording C Scheduled recording e 📑 Event matrix 🕈 📑 Event Alarm Motion Video loss 🗋 Disk usage Arm / Disarm System tamper Power failure 🗋 Disk fault System restart e- C Action Action switch setting Switch • Reload Import Export Apply

6.4.10. Time Synchronization

The time in the digital video recorder can be synchronized with timeserver using the time synchronization function.

1. Go to [Menu] --> [Server Setting] --> [Date/Time].

Date/Time: 12/0	4/2013 13:55:45 👘 (DD/MM/Y	YYY hh:mm:ss
Auto (Time Synchronization)	
Primary time server:	time.windows.com	-
Secondary time server:	time.nist.gov	-
Previous status, Date/Time:	Success, 12/04/2013 12:34:12	
Current status, Date/Time:	Success, 12/04/2013 12:57:04	
	Test Upd	ate
Time zone Time zone: GMT +8:00		ate

2. After changing the time settings, user can click [Time Synchronization Test] to perform testing.

6.4.11. Import and Export

Settings of the digital video recorder can be exported to or imported from a remote PC through network. The procedure is shown as follows:

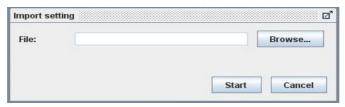
A. Import

Note that the digital video recorder will be restarted automatically after import process is completed.

1. Go to Setting page, select [Import] at the lower left corner of the page.

📑 Server 🔺				
🗕 🗋 Video network mode setti	Server Inform	nation	Software version:	4.00.31
🕈 📑 Video / Audio setting	Server			
🗕 🗋 Video property	Name:	GN6608		
← ☐ Connection	0	011014004		
- 🗋 Network	Serial number:	GNS11221		
– 🗋 3G USB modem	Model:	GN688		
- D IP filtering	Version:	0.01.01	Upgrade firmwa	270
- C License setting	Version.	0.01.01	opgi aue ni ni wa	are
Language setting				
– 🗋 Date / Time	Registration	checking		
— Disk management				
User management	Maintenance	log backup	External keyboa	ard
Edit password Service				
Service Recording	Restart server	1	De stass to fe stass e stiller (Euro	and ID
Scheduled recording	Restart server		Restore to factory setting (Exce	ept IP)
- Switch				
🛉 📑 Event				
– 🗋 Alarm				
— 🗋 Motion				
— 🗋 Video loss				
— 🗋 Disk usage				
– 🗋 Arm / Disarm				
– 🗋 Power failure 🚽				
• • • • • • • • • • • • • • • • • • •				
Reload Import Exp	ort			Apply

2. In the pop up menu, select the setting file to be imported.



B. Export

- 1. Go to Setting page, select **[Export]** at the lower left corner of the page. Select the configurations to be exported.
- 2. Upon completion, a message box will pop up and show the path of the exported file.

Video		Recording	
Switch	es	🔲 Date / Time	
Conne	tion	Event handle	
Email/	SMS/Dialback	Transmitter	
🔲 OSD op	rtion	Select all / Unselect	tall
Save to	C:\Documents an	d Settings\tt\Desktop	Browse
	Start	Can	cel

6.4.12. User Account

In advanced security mode, different users are allocated with their own account and corresponding access rights. Only accounts with the *"User Account"* access right have the privilege to modify the account settings. Please refer to the appendix for details.

1. Go to [Menu] –	►[Serve	r]—►[Us	er Sett	ing].						
📑 Server 📃 🚺	ser setting									•
🗌 🗋 Video network m	..								- I	
← ☐ Video / Audio set	User name	Туре	Time out	Audio	Camera control	Playback	Event control	Video back		
	1 ADMIN	Nework & Local	15 min	V	2	V	×.	2		
- Connection	2 ADMIN1	Local	No Time	~		V				
- Network										
– 🗋 3G USB mod										_
🗕 🗋 IP filtering										
– 🗋 License setting										
— 🗋 Language settin										
– 🗋 Date / Time										
— 🗋 Disk manageme	•							•		
– 🗋 User setting						Add	Edit	Remove		
– 🗋 Service						Auu	Luit	Nelliove		
• 🗖 Recordina 🔍									_	_
						Change	power on defa	ult setting		•
Reload Import	Export								Apply	

2. To add new account, click **[Add]**. To modify or remove an account, select an existing account and click **[Edit]** or **[Delete]** respectively.

ser account info	rmation								Ľ
Account inform	nation								
User name		Ne	etwork password	Change p	assword				
			Local password	Change p	assword				
User type									
✓ Network	🖌 Local								
Access right									
User Acco	unt 🔲 System	settings 🔲 Rec	ording 🔲 Video	backup 🔲 Eve	ent control 🔲 (Camera control	Playback	Audio	
Local login time	oout								
No Timeou									
		n 🔾 5 min 🖲	4E min						
0 50 sec 0		n Opmeen a	15 min						
Switch control									
Switch 1	Switch 2	Switch 3	Switch 4						
Video monitorir	ng								
🗹 Camera 1	🗹 Camera 2	🖌 Camera 3	🖌 Camera 4	🖌 Camera 5	🗹 Camera 6	🖌 Camera 7	🗹 Camera 8		
🖌 Camera 9	🗹 Camera 10	🗹 Camera 11	🗹 Camera 12	🖌 Camera 13	🗹 Camera 14	🗹 Camera 15	🖌 Camera 16		
Select all	Deselect	t All							
								ок	Cancel

G User name of an account cannot be changed after creation.

6.4.13. Maintenance Log Backup

Maintenance log of the digital video recorder can be extracted.

Go to [Menu] ---> [Server Setting] ---> [Maintenance Log Backup], click [start] to start backup process.

og file name:	
g nie name.	

Appendix A: Safety Instruction

Read the following instructions carefully, and save them for future reference.

- 1. Follow all warnings and instructions marked on the product and this user guide.
- 2. Do not place this product on unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 3. Slot and openings of the casing are provided for ventilation; to ensure reliable operation of the product and to prevent it from overheating, these openings must not be blocked or covered. The openings should never be placed near a radiator or heat source, or in a built-in installation unless proper ventilation is provided.
- 4. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- 5. The hard disk holder contains metal parts that may cause injury to user. Handle with care when installing and removing hard disk.
- 6. Do not attempt to service this product yourself, to avoid possible exposure to dangerous voltage points or other risks.

Appendix B: Limited Warranty

Conditions, limitations and liabilities of this warranty:

- 1. Signal Communications Ltd. (hereinafter called TeleEye) provides free repairing labour and free repairing parts for the first 12 months. Please present the Warranty Card and the original invoice when you are asking for service support.
- 2. When necessary, TeleEye staff shall request a remote access inspection or trouble shooting through internet or mobile media.
- 3. When service is required, the Customer is responsible for all the transportation costs.
- 4. Outdoor services are not included. Subject to TeleEye, outdoor services will be provided at extra charges.
- 5. This warranty does not extend to cover any damages or malfunction resulting from disaster, environmental factor, abnormal humidity/temperature, improper voltage, electrostatic discharge, misuse, negligence, ignorance, accident, mold, or repairs /modifications made by any person(s) other than the authorized personnel of TeleEye.
- 6. TeleEye reserves the right to charge Customer an inspection fee, on-site service fee or cost of parts if (i) no fault in the equipment can be found during inspection or (ii) the defect is caused at conditions those mentioned in point 5 above or (iii) Customer fail in providing access methods to the site or the equipment, e.g. specified access permit or key. Such determination is up to the sole discretion of TeleEye.
- 7. The warranty is void if any of the cabinet seal has been removed or opened if there is any such sign not being made by any authorized personnel of TeleEye.
- 8. Under no circumstance shall TeleEye be liable for any damages to any parties so caused by the usage of the above specified equipment or so caused during service provision.
- 9. The conditions, limitations and liabilities of this warranty card may be extended to further terms and conditions or superseded by other terms and conditions when otherwise specified on any of the products.
- 10. Customer shall be responsible for backing up the data contained in the disk products.
- 11. TeleEye shall have no responsibility arising out of any damage to, or loss of the data contained in the disk products.
- 12. All the above determinations are up to the sole discretion of TeleEye.

Appendix C: sureLINK Technology

sureLINK technology is available in TeleEye GN which enables you to connect to the digital video recorder with broadband dynamic IP Internet connection. If you can only use broadband dial-up account to connect to the Internet through your computer, sureLINK provides a solution for sharing the Internet connection between your computer and the digital video recorder.

sureLINK is a group of additional functions, services and software provided for the digital video recorder so as to make it connect to the Internet in any connection methods. Such function can only be used if you have applied for this service though. After you have done so, you also need to configure the digital video recorder to make sureLINK available. This section will help you configure and use it.

With the sureLINK technology, the powerful TeleEye GN can work on broadband Internet economically and cost effectively, and perform remote live video monitoring anytime and anywhere conveniently.

sureLINK Address

You can apply for a sureLINK address (domain name), such as <u>www.hkpublic.TeleEye.TeleEye.net</u>, for your digital video recorder. You can use this name to login or browse the built-in web server. One of the advantages is that you are not required to memorize the IP address and port number (e.g. 210.177.50.156:1024) of the digital video recorder. Since the sureLINK address is fixed while the IP address may change periodically (in case dynamic IP is used), you do not need to worry about the expiration of the IP address. The sureLINK address can be used in digital video recorder web browsing to see live video on standard web browser (e.g. IE, Netscape).

Refreshing Rate

When sureLINK address feature is enabled, your GN digital video recorder will periodically update its current IP address to our database to ensure that the sureLINK address is always forwarded to a valid IP. This update period can be set through OSD menu or web browser.

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A. sureLINK Application

You can apply for sureLINK by visiting our web site at <u>http://www.TeleEye.com</u>. Follow the steps below:

 Enter <u>http://www.TeleEye.com</u> in your web browser address bar to access our web site. Click on [Login] button.

New user? Sign up here! >>

Registered user:			
Login ID:			
Password:			
	Login		

Forget password? Click here to retrieve your login password.

- 2. Login using your registered name and password. New customers need to sign up first.
- 3. Select [sureLINK Registration] ► [sureLINK Address Registrations]. Then select "GN" and then click next.

(1) sureLINK Address Registration >> Register an unique sureLINK address for your own RX or NX device.		
(2) MX/NX Grouping for One sureLINK Fee >> Define a group of MX/NX devices within one premises, that connects to the Internet with one Internet connection. The annual service fee of US\$19 would be charged for one MX/NX Group in the subsequent years, instead of individual MX/NX devices. The sureLINK renewal date of a MX/NX Group is the same as the earliest renewal date of the MX/NX device within the Group.	Please select your produc	ct model series for sureLINK registration
(3) Associated Device Modification >> Modify the registered RX or NX device of your <i>sure</i> LINK address	Model Series.:	GN Next Back
(4) TeleEye.link Port & Login Info Modification >> Modify the Port & Login Info of JN / KN sureLINK address		
(5) <u>sureLINK Renewal >></u> Renew all your <i>sure</i> LINK address		
Back		

4. Enter a sureLINK address (Domain Name), your video recorder serial no. and registration code in the fields provided. Then click on **[Next]** button. The process is then completed.

Model Series.:	GN 💌	
Video Server Serial No.:		
Registration Code:		
sureLINK Address:	www	et
Service Plan:	Select	
	Next Back	

[Reference] Registration Code is printed on the registration Code Sheet

The application will be processed once we received your domain name registration. Normally, it requires about 1 working day to activate sureLINK for your TeleEye GN. You will receive a notification mail when your sureLINK service is ready.

B. sureLINK Modification

Since the sureLINK (Domain name) address corresponds to a single digital video recorder, if you change from one digital video recorder to another one, you have to inform us to update our database record. To do this, you can visit our TeleEye Product Support again and follow the steps below:

1. Login in at <u>http://www.TeleEye.com</u>

(1) sureLINK Address Registration >>
Register an unique sureLINK address for your own RX or NX device.
(2) MX/NX Grouping for One sureLINK Fee >> Define a group of MX/NX devices within one premises, that connects to the Internet with one
Internet connection. The annual service fee of US\$19 would be charged for one MX/NX Group in
the subsequent years, instead of individual MX/NX devices. The <i>sure</i> LINK renewal date of a MX/NX Group is the same as the earliest renewal date of the MX/NX device within the Group.
(3) Associated Device Modification >>
Modify the registered RX or NX device of your sureLINK address
(4) TeleEye.link Port & Login Into Modification >>
Modify the Port & Login Info of JN / KN sureLINK address
(5) <u>sureLINK Renewal >></u> Renew all your <i>sure</i> LINK address
Back

- 2. Go to [sureLINK Registration] [Associate Device Modification]
- 3. Select a sureLINK address (Domain Name) you want to modify.
- 4. Enter the old registration code, new digital video recorder serial number and new registration code in the fields provided.
- 5. Click [Modify] button to submit the form.

If the above procedure is completed successfully, the new sureLINK will become effective immediately.

C. sureLINK Setup in TeleEye GN

After getting a sureLINK address, configure the address to GN through web browser

- 1. Use IP Setup Utility to access GN web page by double clicking the row represent your GN digital video recorder.
- 2. Click on [Menu] > [Server Setting], select [Connection] > [Network].
- 3. Scroll down to sureLINK section.

vw.	•	. TeleEye.net	
date IP rate: 15	minutes		

4. Select "Using sureLINK address" to enable sureLINK function.

- 5. Type in the registered address.
- 6. Select a time period for GN to update its IP address to sureLINK server.

Appendix D: Firmware Upgrade

Please follow the following procedures to upgrade the TeleEye GN to a new version of firmware. User can choose to perform the upgrade locally using USB flash device, or through a remote PC.

USB Upgrade

Step 1:	 Get ready the TeleEye GN firmware upgrade file *.rxp.
Step 2:	Get ready an empty USB flash device
	• Download the firmware upgrade file to the root directory of the USB, for
	example, E:*.rxp.
Step 3:	 Turn on the GN digital video recorder.
	 Plug the USB device to the USB port of the digital video recorder.
Step 4:	 Enter the menu [Main Menu] >[System] ->[Firmware Upgrade]
	Click [Upgrade] to start the upgrade.
Step 5:	 After upgrade, the digital video recorder will be restarted.
	 Enter the menu [Main Menu]—-[System]—-[Server Information] to check
	the firmware version.

Network Upgrade

Step 1:	 Get ready the TeleEye GN firmware upgrade file *.rxp.
Step 2:	 Turn on the GN digital video recorder.
Step 3:	 Connect to the digital video recorder through web browser.
Step 4:	 Go to the setting page, select [Server], click "Upgrade Firmware".
	Click [Browse] to select the path of the firmware upgrade file.
	Click [Start] to start the upgrade.
Step 5:	 After upgrade, the digital video recorder will be restarted.
	 Go to the setting page, check the firmware version at [Server]
	─►[Version].

Appendix E: Security Mode

In TeleEye GN, there is advanced security mode. In advanced security mode multiple user accounts with flexible access right can be created. The property of the security mode can be found in the following table:

Description	on	Advanced Security Mode
Number	of account	20
Account a	apply on	Remote software and local OSD
Password	llength	4 - 10
Password encryption		Yes
Login	Remote software	User name and password
Local menu		Only password
Access rig	ght	Video monitoring
		Audio
		Playback
		Camera control
		Event control
		Switch control
		Video backup
		Recording
		System setting
		User account

G Advanced security mode supports 6 concurrent users

Advanced security mode – User account

Account structure

Туре	Description	Remark	
General setting			
User name	Login user name from remote	4 – 16 characters	
	software	Case insensitive	
		Unique between each account	
Account type	Local / Network / Both	Allow user to login from local	
		OSD / remote software / both	
Access right	Access right of the user account		
Network account type	setting		
Network password	Login password from remote	4 – 10 characters	
	software	Case insensitive	
Local account type setting			
Local password	Login password from local OSD	4 – 10 numeric characters	
		Unique between each account	

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Local time out	Automatic log out time when keypad	Except in playback state
	and mouse idle	

By default, a preset account: ADMINISTRATOR is stored in the digital video recorder. The account ADMINISTRATOR cannot be removed. When TeleEye GN startup or local user logout, access right of local menu will follow the setting of "Power On Default Right".

Administrator account: ADMINISTRATOR

Туре	Default	Remark
User name	ADMINISTRATOR	Fixed
Account type	both	Fixed
Access right	All	Fixed
Network password	0 + digits of serial number	Available to change
Local password	0 + digits of serial number	Available to change
Local time out	15 mins	Available to change

Power on default right

Туре	Default	Remark
Access right	None	Available to change

Group	Features Involved		
Video monitoring #	Basic video monitoring with fixed cameras		
	Browsing the event status **		
Audio	Audio monitoring **		
	PA with microphone, PA with pre-recorded voice clips		
Playback	Video playback **		
	Browsing event log, connection log, setting log and operation log		
Camera control	PTZ **		
Event control	Clear event		
Switch control	Switch control		
Video backup ¹	Video extraction and backup		
Recording ¹	Start / stop recording		
	Start / stop schedule recording		
System setting ¹	Video format, camera installation		
	Change live video quality brightness, contrast		
	Network setting, throughput control setting		
	Date/Time setting		
	Hard disk formatting, scanning		
	Recording setting		
	Switch setting		
	Event setting		
	Firmware upgrade		
	Shutdown / restart		
User account ²	User account setting		
	Changing of security mode		
	Setting import / export		
	Restore factory setting		

Advanced security mode – Access right

- [#] At least one camera should be selected
- ** Video monitoring dependency. For example, if user has no access right on camera 2 monitoring, he cannot browse event status, control PTZ and playback on this camera.
- ¹ All video monitoring, audio and playback access right groups will be enabled automatically
- ² All access right groups will be enabled automatically

Appendix F: General Terms Discussion

Before you start configuring the digital video recorder, you may need to know some of the terms and information used in the digital video recorder.

Registration Checking

When this feature of TeleEye GN is enabled, users need to do the registration in the remotely connecting software (e.g. JAVA web page, TeleEye sureSIGHT) for authorization before the digital video recorder can be used. This option can be applied to improve the security protection for the organization when higher security level is required. If the digital video recorder is decided to open for public use, this feature can be disabled so that public users do not need to register for viewing live video remotely through network.

Site Monitoring Method

There are two methods to link up with the digital video recorder to view video:

- TCP/IP in LAN
- TCP/IP on the Internet using Broadband and Internet Router

Depending on the connection method chosen, follow Section 3 to configure the digital video recorder before use so as to make it function properly.

The built-in web server or TeleEye surveillance applications (e.g. sureSIGHT) contains all the settings for different remote video monitoring methods. Different connection methods may have different settings, and some of the setting configured in one connection method may not be applicable to other method.

It is recommended that the above items should be configured before the first time you use the digital video recorder no matter which connection method you use. The setup and configuration procedures are discussed in Section 3: Setup for Local and Remote Monitoring.

Appendix G: Audit Trail Log Description

A. Audit Trail Log Description of Setting Log

Event short form: [Event]		
ARM	Arm/disarm input	
Secu Switch	Security switch input	
Alarm	Alarm sensor input	
Motion	Motion	
Video Loss	Video loss	
Disk Usage	Disk usage	
Sys Tamper	System tamper input	
Power Fail	Power failure input	
HDD Fault	HDD fault	
Sys Restart	System restart	

t chart form; [Event] -

B. Setting Log Setting Column Table

Setting	Description	
Camera Installed	Install / uninstall camera	
Camera Name	Change camera name	
Date Time Position	Change OSD clock position	
PTZ Supported	Support PTZ camera or not	
PTZ Pan Speed	Change PTZ camera pan speed	
PTZ Tilt Speed	Change PTZ camera tilt speed	
PTZ Pan Duration	Change PTZ camera pan duration	
PTZ Tilt Duration	Change PTZ camera tilt duration	
PTZ Zoom Duration	Change PTZ camera zoom duration	
PTZ Focus Duration	Change PTZ camera focus duration	
PTZ Iris Duration	Change PTZ camera iris duration	
PTZ Additional Duration	Change PTZ camera additional duration	
PTZ Washer Duration	Change PTZ camera washer duration	
PTZ Wiper Duration	Change PTZ camera wiper duration	
PTZ Patrol Speed	Change PTZ camera patrol speed	
PTZ Dwell Time	Change PTZ camera dwell time	
PTZ Driver	Change PTZ driver	
PTZ Baud Rate	Change PTZ camera baud rate	
Camera Name Enabled	Show / hide OSD camera name	
Sequential Time	Change sequential mode camera switch time	
Sequential Cam	Change camera displayed in sequential mode	
Default Display	Change default display mode	

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Rec Frame Rate Change recording frame rate Schedule Rec Enabled Enable / disable schedule recording Disk Mode Change recording disk mode Video Quality Change recording resolution Retention Enabled Enable / disable recording retention Retention Time Change retention period Retention Time Change retention time Rec Audio Channel Change switch name Switch Name Change switch type Date Time Change date time Time Change addet time Time Change lime zone Auto IP Enable / disable auto IP IP Address Change port Subnet Mask Change gateway Gateway Change gateway Auto DNS Enable / disable auto DNS DNS Change sureLINK address sureLINK Address Change sureLINK address sureLINK Address Change sureLINK address sureLINK Address Change the event zone type [Event] Enable / disable sureLINK address SureLINK address sureLINK Address Change the event zo		
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Associate Switch 2Enable / disable security switch associate switch 2Alarm NameChange alarm sensor nameAlarm Sensor TypeChange alarm sensor typeMotion BlockChange motion detection blockMotion SensitivityChange motion detection sensitivityMotion LevelChange motion detection levelMotion AreaChange motion detection areaSys Tamper Sensor TypeChange system tamper sensor typePower Fail Sensor TypeChange power failure sensor type	Associate Switch 1	Enable / disable arm/disarm associate switch 1
Alarm NameChange alarm sensor nameAlarm Sensor TypeChange alarm sensor typeMotion BlockChange motion detection blockMotion SensitivityChange motion detection sensitivityMotion LevelChange motion detection levelMotion AreaChange motion detection areaSys Tamper Sensor TypeChange system tamper sensor typePower Fail Sensor TypeChange power failure sensor type	Secu Switch On State	Change security switch on state
Alarm Sensor TypeChange alarm sensor typeMotion BlockChange motion detection blockMotion SensitivityChange motion detection sensitivityMotion LevelChange motion detection levelMotion AreaChange motion detection areaSys Tamper Sensor TypeChange system tamper sensor typePower Fail Sensor TypeChange power failure sensor type	Associate Switch 2	Enable / disable security switch associate switch 2
Motion BlockChange motion detection blockMotion SensitivityChange motion detection sensitivityMotion LevelChange motion detection levelMotion AreaChange motion detection areaSys Tamper Sensor TypeChange system tamper sensor typePower Fail Sensor TypeChange power failure sensor type	Alarm Name	Change alarm sensor name
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Sys Tamper Sensor TypeChange system tamper sensor typePower Fail Sensor TypeChange power failure sensor type	Motion Area	
Power Fail Sensor Type Change power failure sensor type	Sys Tamper Sensor Type	
I Unange disk usage warning level	Disk Usage Level	Change disk usage warning level
[Event] Recording Enable / disable recording action of the event	¥	
[Event] Rec Cam Change event recording camera		

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[Event] Rec Frame Rate	Change event recording frame rate
[Event] Rec Duration	Change recording duration after event clear
[Event] Switch	Enable / disable switch action of the event
[Event] Switch Mask	Change switch associated to the event
Switch Latch Duration	Change switch latch duration
Switch Delay	Change switch action delay
[Event] Dialback	Enable / disable dialback action of the event
Dialback IP	Change dialback IP address
Dialback Port	Change dialback port
Dialback Retry Duration	Change dialback retry duration
Dialback Retry Count	Change dialback retry count
Dialback Type	Change dialback type
[Event] Email	Enable / disable e-mail action of the event
SMTP Server	Change SMTP server address
SMTP Authentication	Enable / disable SMTP server authentication
SMTP User Name	Change SMTP server user name
SMTP Password	Change SMTP server user password
Email Timeout Retry	Change e-mail timeout / retry count
Email Address	Change recipient e-mail address
Max No. of Email	Change maximum no. of email
Email Delay	Change email action delay
[Event] Buzzer	Enable / disable buzzer action of the event
Buzzer Duration	Change buzzer duration
Buzzer Delay	Change buzzer action delay
[Event] LED	Enable / disable LED action of the event
[Event] Live Cam	Enable / disable live camera action of the event
[Event] Live Cam Mask	Change camera associated to live camera action
[Event] PTZ	Enable / disable PTZ action of the event
[Event] PTZ Cam	Change camera associated to PTZ action
[Event] PTZ Preset	Change PTZ camera recall preset position
Server Name	Change digital video recorder name
Registration Check	Enable / disable registration checking
Web Server Enabled	Enable / disable built-in web server
Security Mode	Change security mode
Add Account	Add a new account
Delete Account	Delete an account
Edit Account	Change information of an account
Hardware Arm Mode	Change to hardware arm mode
Software Arm Mode	Change to software arm mode
Schedule Arm Mode	Change to schedule arm mode
Edit Normal Arm Schedule	Add / delete normal arm schedule
Edit Holiday Arm Schedule	Add / delete holiday arm schedule
[Event] Add Suspension	Suspend the event
[Event] Rm Suspension	Remove the suspension of the event
Alarm Src Type	Change the source of alarm
Switch Src Type	Change the source of switch

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Rec Audio Src Type	Change the source of audio input	
Audio PA	Enable /disable PA	
Audio PA Src Type	Change the source of PA output	

C. Operation Log Operation Column Table

Operation	Description	
Start Recording	Start manual recording	
Stop Recording	Stop manual recording	
Start Playback	Start playback video	
Stop Playback	Stop playback video	
Network Backup	Start backup from remote interface	
Backup to USB	Start backup to local USB flash device	
Stop Backup	Stop backup	
Scan Disk	Scan hard disk	
Format Disk	Format hard disk	
Switch X On	Turn on switch X	
Switch X Off	Turn off switch X	
Restore Factory	Restore default factory setting	
Start Retention	Start recording retention	
Stop Retention	Stop recording retention	
Upgrade from USB	Upgrade firmware from USB	
Remote Upgrade	Upgrade firmware from remote interface	
Import Setting	Import settings	
Export Setting	Export settings	
Local Login	Local user login	
Local Logout	Local user logout	
Remote Login	Remote user login	
Remote Logout	Remote user logout	
Software Arm	Armed from remote interface	
Software Disarm	Disarmed from remote interface	
Enable Schedule Arm	Start schedule arm mode	
Disable Schedule Arm	Stop schedule arm mode	
System Startup	Start the digital video recorder	
System Restart	Restart digital video recorder	
System Shutdown	Shutdown digital video recorder	
Password Reset	Reset user login password	
Power Off	System shut down abnormally	
Disk Turn On	Disk turn on	
Disk Turn OFF	Disk turn off	

D. Connection Log Column Table

Connected	Remote user connected	
Disconnected	Remote user disconnected	
Failed	Remote user connection fail	
Unauthorized	Invalid remote user connection rejected	
Timeout	Remote user connection time out	

Appendix H: Specifications

ITEM	MODEL			
	GN6608	GN6516	GN6916	
VIDEO INPUT				
Supported HD cameras	TeleEye	TeleEye MQ and MP series, IP cameras conform to ONVIF profile S		
Digital channel RJ45, 10/100 base-T	8	0	1	
VIDEO OUTPUT				
Digital video		1 channel, 1280x720, 1920x1080		
VGA	1 channel, 1280x720, 1920x1080			
Display screen	Full, quad, 3x3	Full, quad	Full, quad, 3x3, 4x4	
AUDIO INPUT				
No. of channels		1		
RCA	Line lev	Line level; Output impedance: 30KOhm, Frequency: 200-3500Hz		
AUDIO OUTPUT				
No. of channels		1 for PA, HDMI for Local output		
RCA	Line lev	Line level; Output impedance 6000hm, Frequency: 200-3500Hz		
RECORDING				
Mode	Manual, schedule, motion, event-driven			
HDD	SATA	ternal x2 SATA, internal x8		
Max. recording rate at 1080p	200fps	400fps		
Playback	Forward, I	Forward, backward, pause, step forward, step backward, fast forward		
COMMUNICATION				
Network	F	RJ-45, 10/100/1000 base-T Ethernet (auto-sensing)		
Concurrent users		6 (independent)		

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sureLINK	Support Internet connection assigned with dynamic IP address		
Max. transmission frame rate	200fps	400	Dfps
Web server		Built-in	
Keyboard control	RS422/RS485, 1 channel input		
USB	1 @ front panel, 1 @ rear panel; USB 2.0 High speed 480Mbps (Top rear USB port common with front USB port)		
EVENT HANDLING			
Event	External alarm, Tamper, Video motion detection, Video loss, Power interruption, Disk full, System failure, Disk Failure		
Action	Buzzer, dial back, local recording, relay control, e-mail notification Buzzer, Dial back, Local recording, Relay control, Email notification, SMS, PTZ, mobile notification		
External alarm inputs	4		
RELAY SWITCH			
No. of channels	1 4		
Max. rating	24V AC, 1000mA		
POWER			
Voltage	12V DC 48V DC		AC100-240V/3.5-2A
Max. rating	80W		
OPERATING ENVIRON	IMENT		
Ambient temperature	-10°C - 50°C		
Relative humidity	10% - 90% (no condensation)		
MECHANICAL DESIGN	J		
Dimension	360mm x 242.4mm x 48mm 440mm x 432mm x 90mm		
Weight	2kg		7kg