





DW-ENHD16



Default Login Information
Username: admin Password: admin

	 WHAT	'S IN THE BOX	
QSG Manual	1 Set	12V D/C & Power Cable	1 Set

NOTE: Download All Your Support Materials and Tools in One Place

- 1. Go to: http://www.digital-watchdog.com/support-download/
- Search your product by entering the part number in the 'Search by Product' search bar. Results for applicable part numbers will populate automatically based on the part number you enter.
- Click 'Search'. All supported materials, including manuals, Quick Start Guides (QSG), software and firmware will appear in the results.

Rev: 03/19

## CAUTION



WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EX-POSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANYMETALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENNINGS ON THE EQUIPMENT.

EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is in-tended to alert the user to the presence of dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.





# FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC INFORMATION:** This equipment has been tested and found to comply with the limits for a "Class A" digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numèrique de la classe A est conforme á la norme NMB-003 du Canada.

# WARNING

This is a Class A product. In a domestic environment this product may causeradio interference in which case the user may be required to take adequatemeasures.

# CE COMPLIANCE STATEMENT

## CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

# IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- 15. CAUTION THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.
- 16. Use satisfy clause 2.5 of IEC60950-1/UL60950-1 or Certified/Listed Class 2 power source only.
- 17. ITE is to be connected only to PoE networks without routing to the outside plant.



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Error! Bookmark not defined.

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# 1. Overview

This chapter describes the encoder, its components and their terms and features.

This manual introduces a 16ch HD Encoder which monitors and controls HD analog cameras.

Users can monitor HD analog cameras through network and also can be monitored by local HDMI monitor. The device features include the following:

- The most cost-effective path to IP
- Supports HD-Analog, HD-TVI and all CVBS signals up to 2.1MP/1080p resolution
- Connect your analog cameras to DW Spectrum<sup>®</sup> IPVMS or any ONVIF approved CMS
- Convert up to 16 analog cameras to an IP video signals
- Real-time 480fps 2.1MP/1080p, 720p and 960H resolution at local monitoring output
- Simultaneous streaming
- Works with DW Spectrum<sup>®</sup> IPVMS recording license (needs 4 x DW-SPCP04LSC004, sold separately)
- Support motion detection
- Support two-way audio (4 input, 1 output)
- 1x RS-485 Interface for PTZ control
- Search and playback from DW Spectrum<sup>®</sup> IPVMS
- Frame rate and bandwidth control
- 4 alarm input, 1 alarm output
- Event notifications via e-mail with image
- ONVIF conformant, Profile S

# **1.1** Package contents

The device package contents consist of the following:

#### Table 1-1 Package contents

No	Name	No	Name
1	Encoder	3	Quick guide
2	DC Power Adapter & Power cord		

# **1.2** Encoder description

Refer to the diagrams below for buttons description and ports on the back of the encoder.



Figure 1-1 Name and Connection of each front section

No.	Name	Function		
1	ዑ	Power is on/off.		
2	00	Not in use.		
3	된고	The encoder is being accessed remotely via the network.		
4	USB port	The encoder includes 2 USB ports		

# Table 1-2 Name and Function of each front section



Figure 1-2 Name and Connection of each rear section



# 2. Installation

Mount and install any external devices such as cameras, sensors and microphones according to the installation instructions. Connect the external devices to the encoder's rear based on the diagram above. Below is an example of a proper connection between the Compressor, the cameras, and your remote monitoring software.



# 2.1 Connecting exterior devices

How to connect external devices to the ports in the back of the device:

- **1** Place the unit in a stable flat surface.
- **2** Do NOT install the device too close to the wall. Protrusive connectors in the rear of the unit may be forcedly curved or pressed, which can cause fires, electric shocks, or injury.
- **3** When connecting external devices to the encoder, make sure the system is off and the power cable is disconnected.
- **4** Connect analog cameras to the video in ports in the back of the encoder. The encoder will detect the camera's signal automatically upon connection.



**5** Connect a microphone to the audio input ports and a speaker to the audio output port. Be sure to check regulations in the area whether recording to be legal or not.



6 Connect a monitor to the VGA, HDMI or CVBS port.



7 Connect a network cable to the network port.

LAN	

8 Connect an alarm and RS485 devices to the terminal block as needed. ALARMIN RS485 1 2 G A+B-



9 Connect a USB mouse to either one of the USB ports in front panel of the unit.



10 Once all external devices are connected properly, connect the encoder to an adequate power supply using the included cables.  $\ominus \twoheadrightarrow \oplus$ 



DC 12V

Note	The encoder does not have a power button. The system boots up automatically upon
Note	connection to an external power source.



# 2.2 Starting the system

Once all external devices have been connected to the back of the encoder, and the encoder has been added to the network properly, per the example above, power up the encoder and begin the quick setup wizard.

- 1 When the encoder boots up, it will be in protective mode. You will not be able to access the encoder's setup menu until you login using the proper username and password.
- 2 To unlock the encoder, right-click anywhere on the screen. The login screen will appear. (Default user name / password: admin / admin)



**3** When the encoder boots up for the first time, you will be guided through the Startup Wizard. It is highly recommended that you change your password after initial setup for security purposes.



	Default user name and password are admin/admin.
Note	Click 🕨 to see the encoder's MAC address.
	If you lost your password, contact DW's technical support to reset it.
<u> Attention</u>	Please change password after login due to security.

# 2.3 Quick Setup

The quick setup wizard helps users setup the encoder's main settings, including account setup, system settings, network settings and date and time settings.

# 2.3.1 Account

- 1 Click the keyboard icon to set a new user name and password. It is highly recommended to change the default admin password.
- 2 Press OK, then Save to save the changes.
- 3 Press Next button to end Account setting.



# 2.3.2 System

- 1 Adjust the system settings in this screen:
  - Language: Select system language.
  - Device Name: Enter the device name.
  - Keyboard ID: Setup the encoder's ID to match the ID settings of a keyboard controller. If you are controlling multiple encoders, setup different IDs for each encoder.
  - HDMI / VGA: Set the resolution for the local monitor output connection.
- 2 Press Save button to save changes.
- 3 Press Next to end system settings.

# 2.3.3 Network

1. Set the encoder's network settings to match your network's requirements. It is recommended to set the network type to DHCP and let the encoder auto-detect the network's settings. Then, change the type to Static.

Please contact your network administrator for more information.

- WAN Port: Select whether to use static IP or dynamic IP.
- IP Address, Subnet Mask, Gateway, DNS, and Port: If dynamic network has been selected in the WAN Port options, all these settings will be adjusted automatically to match your network. If Static IP is selected, manually enter all the necessary information.
- 2. Press Save button to save changes.
- 3. Press Next to end Network settings.

# 2.3.4 Time/Date

- 1. Set each item in Time/Date setting screen.
  - Network Time Sync: Select network for synchronizing with a time server.
  - System Time: Select if you do not wish to synchronize your encoder with a network time server. Set the device time and select whether to enable Daylight saving time (DST).
  - Time Zone: Select time zone for the system being installed.
  - DST Start/End: For Daylight saving time, set the application start and end dates.
- 2. Press Save button to save changes.
- 3. Press Next to end Time/Date setting.





Easy Installation - Net-			×
	State P	DHOP (Dynamic)	
	10.20.21.101	• :	
	255 255 0.0	<b>•</b> :	
Dateway		• :	
	8888	(m) ()	
	9350	• •	
		<b>—</b> :	



# 3. Live Screen Configuration

Below image is the encoder's main UI.



#### Figure 3-1 UI Screen Configuration

# Table 3-1 Items and Description of UI Screen Configuration

No.	ltem	Description		
1	Setup menu	Located on the top of the screen. See "4 Setup" for more information.		
2	Live screen	nows live video for the connected cameras.		
3	Launcher menu	Located on the bottom of the screen. See "3.2 Live Launcher" for more information.		
4	Quick menu	Right-click anywhere on the screen to open the quick menu options. See "3.3 Quick" for more information.		

# 3.1 Icons in live screen

When viewing live video from the cameras connected to the encoder, a series of icons will display on the screen. Each representing a different setting or notification related to the selected channel.





Figure 3-2 Live screen icon

## Table 3-2 Live screen icon and its description

No.	lcon	Description	
1	CH1 CAM1	Channel numbers and camera titles.	
2	<b></b>	camera with PTZ function.	
3	1.	PTZ control function in process.	
4	The second	Video loss.	
5	ų	Mic on/off.	
6		Speaker on/off.	
7	2017/11/18 02:35:30	Displaying current time and date.	



# 3.2 Live launcher menu

The launch menu is the main menu bar located at the bottom of the encoder's screen.

	<b>2017/02/2</b>	4 10:41:45 < 171 > Q 👬 🕺 👎
		Figure 3-3 Launcher menu
		Table 3-3 Launcher menu Item and Description
No.	Item	Description
1	- ●	Log in/out status and logged in ID.
2	Date and time	Displaying current date and time.
3	< >	Move to previous/next split view screen or next single screen view.
4	C) ()	Display channels in sequence (toggle)
5		Select the screen split mode in live screen (single screen, 4-, 9-, and 16-split view options).
6	► II	Stop or play selected live screen images (toggle).
7	<b>■</b> ) <b>&gt;</b>	Audio on or mute for selected live screen (toggle).
8	* Ŧ	Pin the launcher menu to always show or hide (toggle).

# 3.3 Quick menu

The quick menu is available by right-clicking anywhere on the encoder's screen. The available options are:



Figure 3-4 Quick menu

Table	3-4	Quick	menu	Item	and	Description
-------	-----	-------	------	------	-----	-------------

No.	ltem	Description	
1	Screen mode	Select the split view mode of live screen (single screen, 4-, 9-, and 16-split view options).	
2	Zoom in	Digital zoom into a selected live screen (zoom out, 2x, 4x and 8x).	
3	Freeze	Freeze the video selected (toggle).	
4	Speaker output/ mute	Turn on or off audio.	
5	PTZ control	Enable or disable PTZ function.	
6	Stop alarm	p alarm Stop monitoring alarm output and event.	
7	Spot monitor	Set the output mode of a spot monitor (Auto, full and 4x4).	
8	Setup	Open the settings menu. See section "4. Setup" for more information.	
9	Status	Show the device's system log, event and stream status.	
10	Log in/log out	Log out of the current user or log into a new user.	
11	Shutdown	Shuts down the device.	



# 3.3.1 PTZ control

For PTZ cameras connected to the encoder, use the PTZ control to move the camera and adjust settings as needed.





Figure 3-5 Quick menu > PTZ control

#### Table 3-5 Quick menu > PTZ control item and description

No.	ltem	Description	
1	Г Л Г Л Л Л Л Л Л Л Л	Move the camera's view with direction buttons.	
2	$\bigcirc$	Move the camera's view with PTZ ball.	
3	AF	Adjust screen focus automatically.	
4	i Zoom out	Zoom function on supported PTZ comora	
5	Zoom in		
6	😵 IRIS off	Adjust interaction supported models	
7	O IRIS on	Adjust ins in the camera on supported models.	
8	✓ Focus far	Manual facus adjustment on supported models	
9	コ Focus near		
10	<b>\$</b>	Open the camera's menu.	

In PTZ Control screen, right-click anywhereon the screen to open the PTZ quick menu options.



Figure 3-6 PTZ control Quick menu

Table 3-6 PTZ control's quick	menu Item and description
-------------------------------	---------------------------

No.	Item	Description
1	Preset, Tour, Scan, Pattern	Run PTZ functions on supported models.
2	Exit	Exit the PTZ quick menu and open the live view quick menu (PTZ mode still enabled)

# 3.3.2 Status > System log

Users can see the system log information in **System log** tap in **Status** screen.







No.	Item Description		
1	Start	Start Setting starting time of system log to search.	
2	End	nd Setting ending time of system log to search.	
3	Log type	ype Selecting log types (Network, Setup, and System).	
4	Select all /unselect Selecting or clearing all log types (toggle).		
5	Search	Pressing search button search on the basis of set condition.	
6	System log list	Displaying system log lists.	
7	Cancel	Completing the status screen.	



# 3.3.3 Status > Event

When selecting Status from the quick menu options, users can see real-time event information for the unit.



Figure 3-8 Status > Event



No.	Item	Description
1	*	Show or hide an event list (toggle).
2	Refresh	Delete event list.
3	Event list	Display event list.
4	Cancel	Complete status screen.

# 3.3.4 Status > Stream

When selecting Status from the quick menu options, users can see the streaming information for the unit.

			Main Stream			Second Stream		
ан	Input Type	Resolution	Bitrate	Framerate	Resolution	Bitrate	Framerate	
	None	None	None	None	None	None	None	
	None	None	None	None	None	None	None	
	None	None	None	None	None	None	None	
	None	None	None	None	None	None	None	
	None	None	None	None	None	None	None	
6	None	None	None	None	None	None	None	
	None	None	None	None	None	None	None	
8	Nonet	None	None	None	None	None	None	

Figure 3-9 Status > Stream

# Table 3-9 Status > Stream items and description

No.	Item	Description
1	Input type	Display input video type.
2	Main stream	Display main stream status.
3	Second stream	Display second stream status.



# 4. Setup menu

Setup is available from the quick menu by right-clicking anywhere and selecting Setup.

🔅 зувтем	CAMERA 🤾 DEVICE	
	Figure 4-1 Setup menu	
	Table 4-1 Setup menu tre	e
Category	Sub-category	Section
	System	System
	System	F/W Upgrade
	Time /Data	Time/Date
SYSTEM	Time/Date	Holiday
	Account	User
	Configuration	Export/Import
	Configuration	Factory Default
	Pasia	Basic
	Dasic	Audio In/Out
CAMERA	Advenced	Scan Mode
	Advanced	Advanced
		Display
		Spot
	Display	OSD
DEVICE		Sequence
	PTZ	PTZ
	Serial Device	Serial Device
	System	System
		Setup
	Alarm In	Schedule
	Matian	Setup
EVENI	Motion	Schedule
	Video Loss	Setup
		Periodic
	Notification	Schedule
	Basic	WAN Port
		DVRNS/Dashboard
	UVRNS/DDNS	DDNS
NEIWORK	E-Mail	E-Mail
		Notification Server
	inolification Server	Notification Message

# 4.1 General buttons in setup menu



Figure 4-2 General buttons in setup menu

# Table 4-1 Item and Description of General buttons in setup menu

No.	Item	Description
1	Default	Restore settings to their factory default.
2	Save	Save changes to the encoder's settings.
3	Cancel	Cancel changes to the encoder's settings.
4	Restore	Cancel changes to the encoder's settings and restore to the last saved values.
5	Apply	Apply changes to the encoder's settings.



# 4.2 SYSTEM

# 4.2.1 System

 Setup
 Image
 English
 Image
 English
 Image
 Image

Setup the system's basic settings and update the firmware.

Figure 4-3 SYSTEM > System > System

### Table 4-2 SYSTEM > System > System Item and Description

No.	Name	Function
1	Language	Set the system's language.
2	Device name	Enter the device's name (English characters only).
3	Video type	Select image standard types (NTSC or PAL).
4	Keyboard ID	Select keyboard ID (1~255).
5	System start	If enabled the encoder will run the setup wizard every time it reboots.
6	Run	Run the setup wizard.

# 4.2.1.1 System > F/W Upgrade

Upgrade the system's firmware.

Setup					×
SYSTEM			EVENT	¢	NETWORK
System	System F/W)				
Time / Date	Ourrent Version	FW-HVR-12780_V3.02_1702	13142033		
Account		USB		~ 4	D I
Config		No File			
			Save		Cancel

Figure 4-4 SYSTEM > System > F/W Upgrade

# Table 4-3 SYSTEM > System > F/W Upgrade Item and Description

No.	Name	Function
1	Current version	Display the firmware version currently installed.
2	Device	Connect a USB memory with new firmware files to upgrade the system's firmware.



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# 4.2.2 Time/Date

Set the date, time, and holidays of the system.

# 4.2.2.1 Time/Date > Time/Date

Set the date, time, and holidays of the system.

Setup				×
🔅 сустем		X DEVICE	EVENT	M NETWORK
System		Holiday		
Time / Date	System Time	2017/02/23 14:55:50	DST	🔹 meetanne
Account				1
Config	DSTEnd			1
	Display Format	YYYYMMDD ~	24 Hours	
	Time Zone	00:00 Casablanca, Coordin	ated Universal Time, Dublin,	Edinburgh, Lisbon, London, M <sup>,</sup>
	Network Time Sync	Use Public		
		1 Hour		
		2017/02/23 14:26:25		
	NTP Server	🛹 Enable NTP Server		
Default				Cancel

Figure 4-5 SYSTEM > Time/Date > Time/Date

Table 4-4 SYSTEM >	> Time/Date >	Time/Date	Item and	Description
--------------------	---------------	-----------	----------	-------------

No.	Name	Function
1	System time	Set the date and time.
		<ul> <li>DST: select whether to use daylight saving time</li> </ul>
		<ul> <li>Time change: save changed time.</li> </ul>
2	DST start	Set the starting date of DST
3	DST end	Set the ending date of DST
4	Display format	Select the format to display date and time.
5	Time zone	Select time zone.
6	Network time sync	When using a specific network time server, click the "Use" checkbox and enter the server address.
		<ul> <li>Sync. Interval: select synchronization period (1-7-hour)</li> </ul>
		<ul> <li>Last Sync. Time: displaying the final synchronized time</li> </ul>
7	NTP server	Select whether to use an NTP server.

## 4.2.2.2 Time/Date > Holiday

Set specific days as holidays. These can later have their own settings, alarms and notifications.



Figure 4-6 SYSTEM > Time/Date > Holiday

## Table 4-5 SYSTEM > Time/Date > Holiday Item and Description

No.	Name	Function
1	Year	Select the year to set a holidays.
2	Ō	Delete selected holiday.
3	Add holiday	Add a holiday.
4	List	Show the holiday list.



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When the "Add Holiday" button is selected, the following window will appear. Use the options to select the date, the type of holiday and when how will it repeat itself each year.

Name	New H	oliday			20	16			~	
Date	2016/0	11/01			M	Т	Ŵ	Т	F	
Date	2010/0	1/01								
Туре	Fixed		~		4	5	6		8	9
				10	11	12	13	14	15	16
	1	1st	1	17	18	19	20	21	22	23
				24	25	26	27	28	29	30
				31						

Figure 4-7 SYSTEM > Time/Date > Holiday > Add Holiday

### Table 4-6 SYSTEM > Time/Date > Holiday > Add Holiday Item and Description

No.	Name	Function
1	Name	Enter the holiday's name.
2	Date	Display chosen date.
3	Туре	Select the holiday type. Fixed will set the specific numeric day of the month as a holiday (e.g., 4 <sup>th</sup> of July). <b>Relative</b> will set the day of the week and its position in the month as a holiday (e.g., <b>1, first, 1 will</b> designate the first Sunday of January as a holiday).
4	Calendar	Select the holiday to add.

# 4.2.3 Account > User



Add or modify user accounts and their access rights to the system.

Figure 4-8 SYSTEM > Account > User

Table 4-7 SYSTEM >	Account > User	<sup>r</sup> Item and Description
--------------------	----------------	-----------------------------------

No.	Name	Function
1	Add group	Add a new users' group.
2	Add user	Add a new user.
3	Group list	Display all groups.
4	User list	Display all users across all groups.
5	Live view restricted access	Do not display live video if the system is not logged into a user.
6	Auto login	Click/clear automatic login checkbox.
7	Auto logout	Select automatic logout time (Null, 1 min, 2 min, 3 min, 4 min, 5 min, 6 min, 7 min, 8 min, 9 min, 10 min, and 30 min).
8	Password change cycle	If enable, user will be required to change their password periodically.



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To add a new user group, press "Add Group". The screen below will appear. You can setup the specific permission levels for this group on this page. You can allow all users assigned to the group access to live view, PTZ control, access to the setup menu, or firmware update rights. You can also assign specific channels or limit what channels users in the group can view. You must have at least one group setup to add users (see below).



Figure 4-9 SYSTEM > Account > User > Add Group

#### Table 4-8 SYSTEM > Account > User > Add Group Item and Description

No.	Name	Function
1	Name	Enter the group's name.
2	Permission	Select the access level for this group.
3		Select what channels to permit users in the group access to.

To add a user, press "Add User". The setup window below will appear. Enter the new user's name, user ID and password and assign to a group.



Figure 4-10 SYSTEM > Account > User > Add User

#### Table 4-9 SYSTEM > Account > User > Add User Item and Description

No.	Name	Function
1	Name	Enter the user name.
2	ID	Enter the user ID. This will be the ID used to log into the system.
3	Password	Enter the password.
4	Confirm password	Confirm the password.
5	Group	Select to the group to which belongs.

# 4.2.4 Configuration (Config.)

In this menu, you can import and export settings or reset the system to its factory default settings.

#### 4.2.4.1 Config. > Export/Import

You can export the current system's settings to a USB or import settings from a different system.

Setup				×
SYSTEM	CAMERA	K DEVICE	EVENT	
System	Export / Import	Factory Default		
Time / Date				
Account		No device found		0
	Import	Import Config with netw	vork setup	
		No File		Import.
	Export			
		cfg_export_2017_2_23_1	5_0_23	Export
				Exit

Figure 4-11 SYSTEM > Config. > Export/Import

### Table 4-10 SYSTEM > Config. > Export/Import Item and Description

No.	Name	Function
1	Device	Select an exterior connector with USB.
		<ul> <li>USB: displays the USB device connected.</li> </ul>
		<ul> <li>Refresh button: re-scan for external devices.</li> </ul>
2	Import	Apply information saved in USB to the device.
		<ul> <li>Import system settings from a different system.</li> </ul>
		<ul> <li>If import Config with network setup, the network settings information is brought from the setting information.</li> </ul>
		<ul> <li>Import button: The file in USB is brought to the designated device.</li> </ul>
3	Export	Save the set information in the USB.
		<ul> <li>Export system settings and save them to a USB.</li> </ul>
		<ul> <li>If Export Config with network setup, the network settings information is saved with the system settings onto the USB.</li> </ul>
		<ul> <li>Export button: Save the set information in the USB.</li> </ul>



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# 4.2.4.2 Config > Factory Default

Restore the system to its factory settings. Check the boxes next to the settings you wish to reset or click "Select All". Click "Default" to confirm the reset.



Figure 4-12 SYSTEM > Config > Factory Default

Table 4-11 SYSTEM >	Config > F	actory Default I	Item and Description
---------------------	------------	------------------	----------------------

No.	Name	Function
1	Select all / unselect all	Select all items to be defaulted.
2	Default item	Select related items to be defaulted.
3	Default button	Default the system to the basics.

# 4.3 CAMERA

In the CAMERA menu, you can adjust the settings for the cameras connected with the device.

# 4.3.1 Basic

Set the basic functions of camera and audio.

## 4.3.1.1 Basic > Basic

Set the basic items for each channel. You can edit the channel's title and set a channel as a covert channel.

💭 SYSTEM		K DEVICE	EVEN		
Dasic	Bánilis Audio In	vout			
Advanced				Сор	y Covert Setup
					Covert
		CAM 1		off	
		CAM 2		off	
		CAM 3	Test	on	
		CAM 4		Oπ	
		CAM 5		off	
		CAM 6		off	
		CAM 7		011	
		CAM 8		or	

Figure 4-13 CAMERA > Basic > Basic

## Table 4-12 CAMERA > Basic > Basic Item and Description

No.	Name	Function
1	СН	Display the channel's name.
2	Title	Enter the channel's name to identify the cameras.
3	Covert	Set a channel to covert channel. Select if images from this channel will be visible in the Live screen, or show only the channel's status (OFF, Video Only, Video/State All).
4	Copy covert Setup	Apply the covert settings from one channel to multiple channels.



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Press **Copy Covert Setup** button. The screen below will appear. Select which channel to copy the settings from. Check the boxes next to each channel you want to apply the same settings.



Figure 4-14 CAMERA > Basic > Basic > Copy Covert Setup

#### Table 4-13 CAMERA > Basic > Basic > Copy Covert Setup Item and Description

No.	Name	Function
1	From	Select a channel converted setting.
2	То	Select a channel to be copied.
3	Select all / unselect all	Select all channels.

## 4.3.1.2 Basic > Audio In/Out

Setup audio input and output for supported decives.

Setup				×
Ф ЗУЗТЕМ		K DEVICE		
Basic	Basic Audio Init			
Advanced				Copy Audio Setup
				sign
	1 Use			
	3 Use			
	4 Use		CH 4	
Default			Save	Cancel

Figure 4-15 CAMERA >Basic > Audio In

# Table 4-14 CAMERA > Basic > Audio In Item and Description

No.	Name	Function
1	No	Display channels of audio.
2	Use	Select to enable audio.
3	Assign	Select channels to be assigned audio.

# 4.3.2 Advanced

Set camera video, stream and privacy mask settings for each channel.

## 4.3.2.1 Advanced > Scan Mode

Use this screen to adjust the signal detected from the camera as needed. The system supported HD-Analog and HD-TVI. You can also setup the signal detection to auto, allowing the system to detect the signal automatically.

A ofotom	Comerco	d DEVICE	L Evenu	METHORK
lasic	Scan Mode Adv	anced		
dvanced 📧				Copy Scan Mode
		8ca	n Mode	
	1. Auto			÷
	2 Auto			÷
	3 Auto			
	4 Auto			~
	5 Auto			*
	6 Auto			~
	7 Auto			
	8 Auto			Ŷ
		1 2		

Figure 4-16 CAMERA > Advanced > Scan Mode

# Table 4-15 CAMERA > Advanced > Scan Mode Item and Description

No.	Name	Function
1	СН	Display channels.
2	Scan mode	Automatically detects the camera's signal type (Auto, HD-Analog, and HD-TVI).
3	Copy scan mode	Copy the current settings to other channels.

## 4.3.2.2 Advanced > Advanced

Setup each channels' brightness, contrast and color and set privacy masks in the cameras' field of view (FoV).

Setup				>
SYSTEM		K DEVICE	EVENT	
Basic	Scan Mode Ally	similar -		
Advanced		Video	Pn	vacy Mask
		Setup		Off (0)
		Setup		ОП (0)
		Setup		Off (0)
		Setup		Ст (0)
		Setup		Off (0)
		Setup		Off (U)
		Setup		Off (0)
		Setup		Off (0)
			Qava	Cancel

Figure 4-17 CAMERA > Advanced > Advanced



	·			
No.	Name	Function		
1	СН	Display channels.		
2	Video	Set brightness, contrast, and color of the camera.		
3	Privacy mask	Set the privacy field; display field numbers set in parenthesis (setup up to 4 masks per channel).		

### Table 4-16 CAMERA > Advanced > Advanced Item and Description

Click the Editing Icon () in the right corner, then Privacy Mask screen will be shown.



Figure 4-18 CAMERA > Advanced > Privacy Mask

#### Table 4-17 CAMERA > Advanced > Privacy Mask Item and Description

No.	Name	Function
1	СН	Select channels to set privacy field.
2	Privacy mask	Select whether to use privacy field.
3	New mask	Select privacy field again.
4	Delete mask	Delete selected privacy field.

## 4.3.2.3 How to set Privacy Mask

Users can set 4 privacy masks:

- 1. Press New Mask. Mask Zone is automatically set as Mask1.
- 2. Drag the area you want in the screen with a mouse.
  - Revision: Select Mask No. in Mask Zone and drag the area you want in the screen with a mouse.
  - Deletion: Select Mask No. in Mask Zone and click Delete Mask.
- 3. Press **Apply** button to complete setting.

# 4.4 DEVICE

In the DEVICE menu, set the device's display, PTZ settings and other external devices connected to the unit.

# 4.4.1 Display

Set the system's live screen display settings.

#### 4.4.1.1 Display > Display

Set the display settings. You can adjust the resolution of the local output monitor, enable pop-up event screens and enable a monitor relay switch.

Setup	CAMERA			NETWORK	×
Display	Display. Spot	OSD Sequence			
PTZ					
Serial Device		1920×1080			
	Duration				
	Duration	1 Second			
	Alarm-out	Relay 1			
Default			Save	Cancel	

Figure 4-19 DEVICE > Display > Display

## Table 4-18 DEVICE > Display > Display Item and Description

No.	Name	Function
1	HDMI/VGA	Select the resolution of the display device (available: 1024x768. 1280x720, 1920x1080).
2	Event popup	Set duration of event popup. When enabled, a popup screen will appear when an alarm is triggered, showing the relevant channel.
3	Monitor relay switch	Send an alarm out when the screen's layout changes.



# 4.4.1.2 Display > Spot

Set the Spot output settings.

Setup				EVENT	×
Display	Display	SPOT OSD	Sequence		
Disk PTZ	Duration Sequence	5 Secon	ds 🗸	Channel Setup	
TEXT	Event Popup	Off			
Default				Save	Cancel

Figure 4-20 DEVICE > Display > Spot

No.	Name	Function
1	Sequence	Set the channel and dwell time (5, 10, 20, 30sec) when Auto mode is selected.
2	Event popup	Sets the hold time for full screen images of a channel when an event occurs (available options: off, 5, 10, 20, 30sec, continuous). If multiple channels have an event at the same time, the event channel is shown as a spilt screen.

## 4.4.1.3 Display > OSD

Set the on screen display (OSD) settings.



#### Figure 4-21 DEVICE > Display > OSD

# Table 4-20 DEVICE > Display > OSD Item and Description

No.	Name	Function
1	Camera name	Select the way to display camera in live screen (Off, CH+Title, CH).
2	Live bar	Select the way to display the live bar (always on, auto hide).
3	Display icon	Select what icons to display in the live screen.



# 4.4.1.4 Display > Sequence

Setup a sequence view for the live display.

Setup								×
SYSTEM	<u> </u>	CAMERA	X DE	VICE	EV	ENT		
Display	Disp	lay Spot	OSD S					
PTZ			Full				Add Sequence	
Serial Device		Division					Dwell Time	
		Full				3 Seconds		
						3 Seconds		
		Full				3 Seconds		
		Full				3 Seconds		
		Full				3 Seconds		
		Full				3 Seconds		
		Full				3 Seconds		
		Full				3 Seconds		
Default						Save	Cancel	

Figure 4-22 DEVICE > Display > Sequence

Table 4-21 DEVICE >	Display > Sequence	Item and Description
	Display Sequence	

No.	Name	Function
1	Quad sequence	Set a sequence showing 4 channels at a time.
2	Division	Select the screen partition mode (Full or quad).
3	Sequence list	Display the sequence list based on division selected.
4	Add sequence	Add items to the play sequence.
5	NO.	Shows the channels in their display order.
6	Division	Displays as full, 2X2 (quad).
7	CH list	Set the channels order in the sequence.
8	Dwell time	Set the dwell time for each channel (3 sec~30 sec)
9	Default	Change all settings back to default settings.
10	1	Revise the list.
11	Ē	Delete the list.

Click on **Add Sequence** to add a new sequence. The screen below will appear. Select the channel, set the dwell time and the division type of the sequence (full screen or quad mode).



Figure 4-23 DEVICE > Display > Sequence > Add Sequence

### Table 4-22 DEVICE > Display > Sequence > Add Sequence Item and Description

No.	Name	Function
1	Dwell time	Select dwell time to show each channel (3 sec, 5 sec, 10 sec, 15 sec, and 30 sec).
2	Division	Select the partition screen to play (full, quad).
3	Channel selection	Select which channels to include in the sequence.



# 4.4.2 PTZ > PTZ

To use PTZ menu to setup PTZ enabled cameras.

SYSTEM	_	CAMERA		EVE	NT	🌐 NE	TWORK
Display							
PTZ						Copy	PTZ Selup
Serial Device				Protocol		Sp	eed
			None				
			None				
			None				
			None				×
			None				
			None				*
			None				
			None				

Figure 4-24 DEVICE > PTZ > PTZ

# Table 4-23 DEVICE > PTZ > PTZ Item and Description

No.	Name	Function				
1	Copy PTZ Setup	Apply setting from a selected channel to multiple channels.				
2	СН	Channels number.				
3	ID	Select the camera's ID (set from 1 to 255).				
4	Protocol	Select protocol of the camera connected to the selected channel.				
5	Speed	Select pan-tilt speed of camera connected to the selected channel. Set from 1 to 5 with 1 being the slowest and 5 the fastest.				
No	te For more camera's	information about camera ID, protocol information, and details, see the PTZ user manual.				

# 4.4.3 Serial Device > Serial Device

Setup a serial device connected to the system such as PTZ cameras and USB devices.



Figure 4-25 DEVICE > Serial Device > Serial Device

Table 4-24 DEVICE :	Serial Device >	<ul> <li>Serial Device Ite</li> </ul>	m and Description
---------------------	-----------------	---------------------------------------	-------------------

No.	Name	Function
1	USB (to serial)	Set communication transmission value of USB device.
2	RS-485	Set communication transmission value of RS-485 connector.



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# 4.5 EVENT

In the EVENT menu, users can setup notifications, alarm and sensors, video loss and motion detection.

# 4.5.1 System

Set the system events that would trigger alarms.

## 4.5.1.1 System > System

Set the system event of the device



Figure 4-26 Event > System > System

#### Table 4-25 Event > System > System Item and Description

No.	Name	Function
1	System restart	Enable system reboot as an event.
2	Notification	Select to send an e-mail or push mobile notifications when an event occurs.
3	User login	Enable user-login as an event.

# 4.5.2 Alarm In

Set sensor alarms and schedule

## 4.5.2.1 Alarm In > Setup

Set sensor alarms

W olotem	-	CAMERON		4	DEVICE	1- un	HEIMORK
System			chedule				
							opy Alarm Setup
Motion	Sensor	Use	Type		Deep	Alarm	Preset
Video Loss				None			
Notification				None			
				None			
				None			
				None			
			N.0	None			
			N.O	None			
			N.O	None			

Figure 4-27 Event > Alarm In > Setup

# Table 4-26 Event > Alarm In > Setup Item and Description

No.	Name	Function
1	Sensor	Sensor's channel number.
2	Use	Enable a sensor.
3	Туре	Select sensor types (N.O, N.C).
4	Веер	Set a beep sound when a sensor is activated. Select from the available length options (null, 5 sec, 10 sec, 20 sec, 30 sec, 1 min, 10 min, 30 min, and 1 hour).
5	Alarm	Set an alarm option when a sensor is activated.
6	Noti.	Select to send an e-mail notification when a sensor is activated.
7	Preset	Set a PTZ camera to move to a specific preset when a sensor is activated.
8	Copy alarm setup	Apply setting from a selected channel to multiple channels.



Click on the editing Icon (

Event : Alarm						
Alarmin 1						
Alarm-out						
	Relay	Dwell Time				
Relay 1		Кеер				
Monitor F	opup					
Remote Notific	ation					
E-mail	Push	(Mobile)				
Preset						
Use	сн		Preset			
On	CH1					
On	OHI					
On	CHI					
On	CH 1					
	Apply		Cancel			

Figure 4-28 Event > Alarm In > Setup > Event: Alarm

Table 4-27 Event >	> Alarm In >	Setup > Event	: Alarm Item and	l Description
--------------------	--------------	---------------	------------------	---------------

No.	Name	Function					
1	Alarm-out	Set the alarm.					
		Relay: enable a relay output when an event occurs.					
		<ul> <li>Dwell time: set a duration for an alarm (Keep, 5 sec, 10 sec, 20 sec, 30 sec, 1 min, 10 min, 30 min, and 1 hour)</li> </ul>					
2	Monitor popup	Enable a monitor popup when an event occurs.					
3	Ĭ	Select which channel to popup on the monitor when an event occurs.					
3	Remote notification	Setup an e-mail or push notifications to your smart phone when an event occurs.					
4	Preset	Preset of PTZ camera is running.					
		• Use: enable a PTZ camera's preset as an action when an event occurs.					
		<ul> <li>CH: select channels. Please note a PTZ camera must be connected to the channel.</li> </ul>					
		Preset: enter the preset value.					

## 4.5.2.2 Alarm In > Schedule

Setup a schedule when sensors are active. You can setup individual schedules for each sensor connected to the encoder, or copy and apply the same schedule to all devices.



Figure 4-29 Event > Alarm In > Schedule

Table 4-28 Event > Alarm In > Sched	dule Item and Description
-------------------------------------	---------------------------

No.	Name	Function
1	Sensor	Select the sensor to set the schedule for.
2	Schedule type	Select the types of schedules. If None is selected, the sensor will be disabled.
3	Schedule table	Displays the operating schedule for the selected sensor. 7 days of the week and holidays are shown on the left, and 24 hours of each day are shown on the top row. Each square represents an hour in a specific day. If the square is orange, the sensor is activated during that time and day.
4	Drag field	You can select multiple hours and days for quick setup. To do so, click and hold on any square in the schedule table. While holding the mouse' left button down, drag the mouse across the areas in the table you want to setup. To complete the setup, release the mouse's button
5	Copy to alarm schedule button	Apply setting from a selected channel to multiple channels.



# 4.5.3 Motion

Set and schedule motion detection for each of the system's channels.

## 4.5.3.1 Motion > Setup

Set motion detection

System		hedule					
Alarm in						Copy to Motion S	letup
Motion	Use	Area	Sens.	Geep	Alarm	Noti.	Preset
Video Loss	On			None			
Notification	On		Level10	rione			
	On		Level10	None			
			Level10	None			
			Level10	Hone			
			Level10	None			
			Level10	Hone			
			Level10	Hone			

Figure 4-30 Event > Motion > Setup

# Table 4-29 Event > Motion > Setup Item and Description

No.	Name	Function
1	СН	Show channel's number.
2	Use	Enable motion detection for each channel.
3	Area	Display the motion detection area.
4	Sens.	Select the sensitivity level for motion detection (Level 1~10).
5	Веер	Set a beep sound when motion is detected. Select from the available length options (null, 5 sec, 10 sec, 20 sec, 30 sec, 1 min, 10 min, 30 min, and 1 hour).
6	Alarm	Set an alarm output when motion is detected.
7	Noti.	Set an e-mail notification when motion is detected.
8	Preset	Set a PTZ camera to move to a specific preset when motion is detected.
9	Copy to motion setup	Apply setting from a selected channel to multiple channels.

Placing your mouse on Alarm, Noti., Preset and clicking editing icon ( ) in right corner
 Note displays Event: Alarm screen. For more information about Event: Motion screen, see section
 "4.5.2 Alarm In > Setup in Alarm In."

## 4.5.3.2 Motion > Schedule



To schedule record time when the motion sensor detects across channels

Figure 4-31 Event > Motion > Schedule

Table 4-30 Ever	nt > Motion	> Schedule	Item and	Description
-----------------	-------------	------------	----------	-------------

No.	Name	Function
1	СН	Select the channel to set the motion detection schedule for.
2	Schedule type	Select the types of schedules. If None is selected, the motion detection will be disabled.
3	Schedule table	Displays the operating schedule for the selected channel. 7 days of the week and holidays are shown on the left, and 24 hours of each day are shown on the top row. Each square represents an hour in a specific day. If the square is blue, motion detection is activated during that time and day.
4	Drag field	You can select multiple hours and days for quick setup. To do so, click and hold on any square in the schedule table. While holding the mouse' left button down, drag the mouse across the areas in the table you want to setup. To complete the setup, release the mouse's button
5	Copy to motion schedule button	Apply setting from a selected channel to multiple channels.



# 4.5.4 Video Loss > Setup

To set Video Loss across channels

SYSTEM	<u>_</u>	CAMERA	💥 DEV	ACE	EVENT	NETWORK
Bystem						
Narm In					Copy to 1	Adeo Loss Setup
Motion			Beep	Alarm	Noti.	
video Loss			None			
Notification			None			
			None			
			tione			
			None			
			Hone			
			Hone			
			None			

Figure 4-32 Event > Video Loss > Setup

Table 4-31 Event >	Video	Loss >	Setup	Item	and	Description
--------------------	-------	--------	-------	------	-----	-------------

No.	Name	Function
1	СН	Show channel's number.
2	Use	Enable video loss event for each channel.
3	Веер	Set a beep sound when video loss is detected. Select from the available length options (null, 5 sec, 10 sec, 20 sec, 30 sec, 1 min, 10 min, 30 min, and 1 hour).
4	Alarm	Set an alarm output when video loss is detected.
5	Noti.	Set an e-mail notification when video loss is detected.
6	Preset	Set a PTZ camera to move to a specific preset when video loss is detected.
7	Copy to Video Loss Setup	Copy the Video Loss set value to other channels.
	1	

Placing your mouse on Alarm, Noti., Preset and clicking editing icon (Notedisplays Event: Video Loss screen. For more information about Event: Video Loss screen, see section "4.5.2 Alarm In > Setup in Alarm In."

# 4.5.5 Notification

Set and schedule notifications for alarms and events.

## 4.5.5.1 Notification > Periodic

Set a periodic alarm. This alarm will go out to an e-mail every set amount of time with information about a selected channel's events.

Setup				×
🔅 зузтем		K DEVICE	EVENT	
System	Periodic Sched	ule		
Alarm In	Periodic Notification	E-mail		
Motion				
Video Loss		24 Hours		
rooncabon				
Children and Child				
Default			Save	Cancel

Figure 4-33 EVENT > Notification > Periodic

# Table 4-32 EVENT > Notification > Periodic Item and Description

No.	Name	Function
1	Periodic notification	Enable periodic alarms.
2	Summary	Send event information.
3	Interval	Select how often the e-mail will be sent (5 min, 10 min, 30 min, and 1 hour, 2-hour, 6-hour, 8-hour, 12-hour, and 24-hour).
4	Select CH	Select channels to be included in the e-mail.
5	Select All / Unselect All	Select/deselect all channels



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# 4.5.5.2 Notification > Schedule

Schedule remote notification (alarm and motion)



Figure 4-34 EVENT > Notification > Schedule

No.	Name	Function
1	Schedule type	Select the types of schedules. If None is selected, notifications will be disabled. Select green to enable e-mail notifications, blue for push mobile notification or purple to enable both.
2	Schedule table	Displays the operating schedule for enabled notifications. 7 days of the week and holidays are shown on the left, and 24 hours of each day are shown on the top row. Each square represents an hour in a specific day.
3	Drag field	You can select multiple hours and days for quick setup. To do so, click and hold on any square in the schedule table. While holding the mouse' left button down, drag the mouse across the areas in the table you want to setup. To complete the setup, release the mouse's button

# 4.6 NETWORK

In the **NETWORK** menu, users may set the network environment. Please contact your network administrator for more information.

# 4.6.1 Basic > WAN Port

Set the system's network environment

SYSTEM	CAMERA	DEVICE	EVE	NT 🗰	NETWORK
VRNS / DDNS	Static IP	DHCP (Dynamic)			
Mail	MAC Address	00:07:D8:2F:DF:95			
	IP Address	192.168.0.8	= :		
	Subnet Mask	255.255.255.0			
	Gateway	192.168.0.1			
		8.8.8.8	= :	( Mariual	
		9350			
	Port (Web)		= :		
	Port (IPC)	50000	= :		
	Bandwidth Limit	Unlimited			
	Ping Test	8.8.8.8		Test	

Figure 4-35 NETWORK > Basic > WAN Port

# Table 4-34 NETWORK > Basic > WAN Port Item and Description

No.	Name	Function			
1	Static IP	Check to use a static IP. If this option is selected, manually enter the device's IP address, subnet mask and gateway information.			
2	DHCP (Dynamic)	Check to use DHCP (Dynamic). If selected, the system will scan the network and automatically assign itself the proper IP address, subnet mask and gateway according to the network settings.			
3	MAC address	View the device's MAC Address.			
4	DNS	Select manual and enter a DNS address or choose auto to set automatically.			
5	Port (TCP)	Enter the TCP port information.			
6	Port (web)	Enter the web port information.			
7	Bandwidth limit	Set a limit to the amount of bandwidth the device can use in the network (no lim- its, 50Mbps, 10Mbps, 5Mbps, 2Mbps, 1Mbps, 500Kbps, 400Kbps, 300Kbps, 200Kbps, and 100Kbps).			
8	Ping test	Enter an IP address in the ping test to complete the test.			



# 4.6.2 DVRNS/DDNS

Set DVRNS/DDNS

# 4.6.2.1 DVRNS/DDNS > DVRNS/Dashboard

Register a DVRNS/Dashboard account

Setup			×
SYSTEM	X DEVICE	EVENT	NETWORK
Basic	DDNS		
E-Mail	2FDF95		j
	*****		1
		Register	
	Existing Account		
			l.
			1
	Add Device	Delete Device	
Default		Save	Cancel

Figure 4-36 NETWORK > DVRNS/DDNS > DVRNS/Dashboard

## Table 4-35 NETWORK > DVRNS/DDNS > DVRNS/Dashboard Item and Description

No.	Name	Function					
1	DVRNS	Register a DVRNS account					
		ID: enter DVRNS ID (default: MAC address of the unit).					
		Password: enter DVRNS password.					
		Register: register DVRNS account.					
2	Dashboard	Add/delete a dashboard account					
		• Account: select the type of account (existing account or new account).					
		ID: enter your dashboard ID.					
		Password: Enter your dashboard password.					
		Add Device: add a dashboard account.					
		Delete Device: delete a dashboard account.					

# 4.6.2.2 DVRNS/DDNS > DDNS

Set a DDNS site for remote users to access

Setup				×
SYSTEM		💥 DEVICE	EVENT	NETWORK
Basic	DVRNS / Dashboard			
E-Mail	Host Name			
Default			Save	Cancel
Donada			Save	Gunter

Figure 4-37 NETWORK > DVRNS/DDNS > DDNS

# Table 4-36 NETWORK > DVRNS/DDNS > DDNS Item and Description

No.	Name	Function		
1	DDNS site	Select DDNS site from the available options.		
2	Host name	Enter the host name.		
3	User name	Enter the user name.		
4	User password	Enter the user password.		



# 4.6.3 E-Mail

Set an e-mail server to send e-mail notifications when events occur.

Setup							>	<
SYSTEM				EVE		۲	NETWORK	
Basic								
DVRNS / DDNS								
E-Mail	Server Type	SMTP Mail Server						
	Address / Port					•		
	lmage Attach	JPG						
	Authentication		TLS/SS					
						est		
Default					Save		Cancel	

Figure 4-38 NETWORK > E-Mail > E-Mail

Table 4-37 NETWORK >	> E-Mail >	E-Mail Item	and Description
----------------------	------------	-------------	-----------------

No.	Name	Function	
1	Server type	Select an SMTP server.	
		• gmail.com	
		hotmail.com	
		• aol.com	
		naver.com	
		• daum.com	
2	Address / port	Enter the server address and port number.	
3	Image attach	Set to add a JPEG image to the e-mails.	
4	Authentication	Select/deselect using authentication and password.	
5	ID	Enter the email ID.	
6	Password	Enter the email password.	
7	Sender	Enter a sender's name.	
8	Receiver	Enter the receiver's information. To add multiple e-mail addresses as receivers, separate each address with a comma.	
9	Test	Verify whether the email server is set normally.	

# 4.6.4 Notification Server

#### 4.6.4.1 Notification Server > Notification Server

Setup a notification server. When an event occurs, a notification will be sent to a server.



Figure 4-39 NETWORK > Notification Server > Notification Server

[able 4-38 NETWORK > Notification Section Sect	erver > Notification S	Server Item and Description
--	------------------------	-----------------------------

No.	Name	Function
1	Notification server	Select/deselect whether to use notification server.
2 Type Select TCP or UDP protocol.		Select TCP or UDP protocol.
3	IP	Enter the server's IP address or host name.
4	Port	Enter the server's port.
5	<b>T</b>	Send a test message to the server to check the connection status. Click Save when the transmission is successful.
	iest	TCP can check the results in the recorder, but UDP should be checked in the notification server.



## 4.6.4.2 Notification Server > Notification Message

Set up a message to be sent to the notification server when event occurs.

Setup				×
SYSTEM	CAMERA	X DEVICE	EVENT.	
Basic	Notification Server			
DVRNS / DDNS				Add ወ
E-Mail		Event	Messag	e
Notification Server				
Default				Cancel

Figure 4-40 NETWORK > Notification Server > Notification Message

#### Table 4-39 NETWORK > Notification Server > Notification Message Item and Description

No.	Name	Function
1	Ō	Deleted registered notification message.
2	Add	Notification message edit window pop-up.
3	СН	Camera channel.
4	Event	Display event type as Motion, Alarm, and Video Loss.
5	Message	Display notification message.

Click the Add button to open the Add Message screen below:

Add Message			×
	СН 1		
	Motion		
		-	
	Арр	Cancel	

Figure 4-41 NETWORK > Notification Server > Notification Message > Add Message

## Table 4-40 NETWORK > Notification Server > Notification Message > Add Message

No.	Name	Function
1	СН	Select the channel to add a message.
2	Event	Select the event type (motion, alarm, video loss).
3	Message	Create a message to send.

# 5. Web viewer

This chapter describes web viewer for monitoring video form the device through a PC in remote mode.

# 5.1 How to monitor with web viewer

Item	Recommended	Minimum
OS	Microsoft® Windows® 10 x86 (64bit) (Home Premium, Professional, Ultimate) Microsoft® Windows® 8 (pro, Enterprise)	Microsoft <sup>®</sup> Windows <sup>®</sup> XP Home SP3
CPU	Intel Core™ i5-2550 3.30GHz or higher	Intel Core™ 2 Duo E7200 2.53GHz or higher
RAM	2GB or higher	1.5GB or higher
VGA	ATI Radeon™ HD 3650 or NVIDIA GeForce 8400GS or higher(1280x1024, 32bpp or Higher), Multi Monitor	ATI Radeon <sup>™</sup> HD 2400 or NVIDIA GeForce FX5500 or higher(1024x768, 24bpp or higher)
HDD	Over 6GB	Over 1GB
LAN	Gigabit Ethernet	10/100 Mbps Ethernet

#### Table 5-1 System Requirement for Web viewer

1 Enter IP address of the encoder in your Internet browser. Please note that you may have to open ports in your router in order to access the encoder from a separate network. Please contact your network administrator for more information.



- 2 Enter ID and password, and click one of the buttons:
  - Viewer: view live images.
  - Setup: enter the encoder's setup menu remotely.

To view live video from the encoder, you will be prompted to download and install Java. Follow the next page's instructions to properly download and install the Java files.



# 5.1.1 In case of selecting Viewer (Internet Explorer)

1 Click Viewer.



2 When Java download screen opens, download and install JAVA.



3 Live images may be monitored.



G Provencias		
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		844

# In case of selecting Viewer (Chrome)

 After click Viewer, .jnlp file can be downloaded.
 Click Keep button.

← G 0 192.168.11.40/agi+bin/childmilla	ginizgi	<b>01</b> 立	B
Chrome Web viewer			
lease Download jnlp file and click to run webvi	lewer.		

2 Click webviewer\_chrome.jnlp. 1 Web View × ← C ① 192.168.11.40/cgi-bin/chromeLogm.cgi Q+ ☆ : Chrome Web viewer Please Download .jnlp file and click to run webviewer webviewer\_chrom...jnlp Show all X When Java download screen opens, × Do you want to run this application? download and install JAVA. Name: Webviewer (i) Publisher: Digital House Inc. Location: http://192.168.11.40 This application will run with unrestricted access which may put your computer and personal information at risk. Run this application only if you trust the location and publisher above. Do not show this again for apps from the publisher and location above More Information Run Cancel 4 Live images may be monitored. 9 0

#### 5.1.2 In case of selecting Setup

Users can set the menu in similar ways with local connected monitor.

🛟 System	Camera	X Device	Event	Network
System	Suction	vetem Information		
Date/Time		yatem monuton		
Account	Language	English	×.	
Config	Device Name	HVR-12780		
Logout	Video Type			
			Save	Cancel

#### Figure 5-1 Setup screen



3

# 6. Products Specifications

VIDEO				
	Signal type	HD-Analog, HD-TVI and analog signal up to 960H		
video input	CH#	16CH BNC input		
	Outputs and	True HD / VGA: 1920x1080, 1280x720, 1024x768		
video out	Resolutions	Spot: 1.0 Vp-p (75 ohm, Composite)		
Diambay maadu	-	True HD/VGA: 1/4/9/16 Split, PIP, Sequence		
Display mode	2	Spot: 1/16 Split, Sequence		
Compression		H.264		
Desclution		Main stream: 240fps @ 2.1MP/1080p		
Resolution		Sub Stream: 240fps @ VGA		
PERFORMAN	ICE			
	Audio in and out	4 RCA input / 1 RCA output		
	Alarm in and out	4 alarm inputs / 1 output, terminal block		
Interface	RS-485 / UTC	1 terminal block		
		PTZ control via UTC (HD-Analog / HD-TVI / HD-CVI)		
	Motion detection	Locally and via DW Spectrum <sup>®</sup> IPVMS		
	Privacy masks	Yes		
		Locally and via DW Spectrum <sup>®</sup> IPVMS.		
Features	Alarm management	Motion detection, sensor and alarm activation, video loss, system start a		
		user login		
	Notifications	E-mail notifications		
	Security	HTTPS, SSL, Multi User Authority		
NETWORK				
Network con	nection	1 RJ45 10/100/1000 Base-T		
	Transmission speed live	Max. 240fps @ 1080p		
Streaming	Max. throughput	288Mbps		
	Bandwidth	Support bandwidth control		
	Protocols	ONVIF, TCP/IP, UDP, DHCP, uPNP, DDNS, Zeroconf, Bonjour		
A	Web viewer	Internet Explorer® XP or higher with live view and remote setup		
Access	software	DW Spectrum® IPVMS		

GENERAL		
Operating temperature and		32°F ~ 113°F (0°C ~ 45°C)
humidity		Less than 90% (non-condensing)
Other certifications		FCC
Electrical	Power requirement	12V DC, 2A
	Power consumption	Max. 14.4W, 1.2A
Dimensions		14.76" x 1.76" x 12.52" (375 x 44.9 x 318.2 mm)
Weight		3.96lbs (1.8kg)

 $\ensuremath{\overset{\scriptstyle <}{_{\scriptstyle \sim}}}$  Specifications are subject to change without notice.

