

DIGIEVER

Video Wall Recorder User Manual

V1.0.0.1



Information in this document is subject to change without notice.

© Copyright 2014. All rights reserved.

Table of Contents

Chapter 1. Introduction	3
1.1 Hardware Description.....	4
1.1.1 Video wall decoder Series	4
Figure 1. Front & Rear View of VD-0000 Series.....	4
1.2 LED Indicators Status.....	5
1.2.1 Video Wall Decoder Series	5
1.3 Dual Display Solution: HDMI/ DVI-I Connection	6
Chapter 2. Decoder Installation	7
2.1 Remote Browser PC System Requirements.....	7
2.2 Connect to Video Wall Decoder.....	8
2.2.1 Quick Guide	8
2.2.2 Install EZ Search.....	8
2.2.3 User Manual	16
2.2.4 Browse CD	16
2.3 Quick Configuration	18
2.3.1 Start	18
2.3.2 Network Settings	19
2.3.3 Server Settings	20
2.3.4 Date &Time.....	21
2.3.5 Camera Settings	23
2.3.6 Finish.....	33
Chapter 3. Use Video Wall Decoder by Local Display	35
3.1 Log in Decoder.....	35
1.1.1 Anonymous login	36
1.1.2 Virtual Keyboard.....	37
3.2 Liveview	38
3.2.1 Select View Modes on Liveview Page	38
3.2.2 Main Functions for Live View	39

3.2.3	Right Click Functions on Video Window.....	43
3.2.4	Zooming with Mouse Scroll.....	44
Chapter 4. Configuration.....		46
4.1	IP Camera	46
4.1.1	Camera Settings	46
4.1.2	Video Parameter	46
4.1.3	Camera Status	49
4.2	Network Setup	50
4.2.1	Network Setup	50
4.2.2	Network Service.....	52
4.3	Management.....	53
4.3.1	User Management.....	53
4.3.2	Log System	58
4.3.3	Load Configuration	63
4.4	System.....	64
4.4.1	Device Information	64
4.4.2	System Upgrade	65
4.4.3	Language.....	67
4.4.4	Date &Time.....	67
4.4.5	Reboot &Shutdown	70
Chapter 5. Remote Controller (optional)		71
5.1	Overview.....	71
5.2	Connect to Video Wall Decoder	72
5.3	Instruction of Liveview Interface (Side A)	73
5.4	Instruction of Mouse and Keyboard (Side B).....	74

Chapter 1. Introduction

Before You Use This Product

When you first open the product's package, verify that all the accessories listed on the "Package Contents" of "Quick Installation Guide" are included. Before installing the video wall decoder, please read the instructions in the "Quick Installation Guide" to avoid misuse.

1.1 Hardware Description

1.1.1 Video wall decoder Series

VD-0025 / VD-0036/ VD0049/ VD-0064

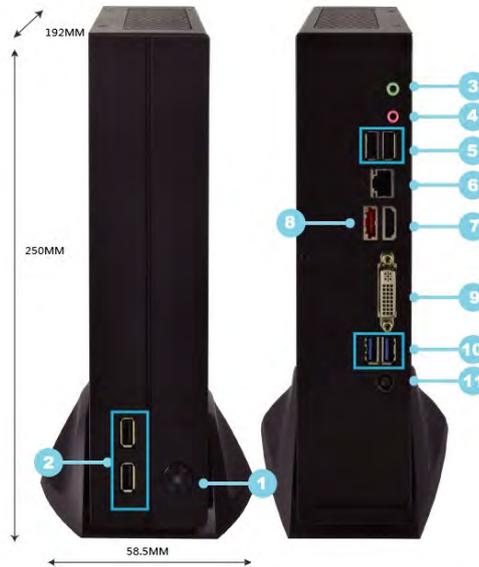


Figure 1. Front & Rear View of VD-0000 Series

1. Power button
2. USB 2.0 x 2
3. Audio output
4. Audio mic input
5. USB 2.0 x 2
6. Gigabit LAN x 1
7. HDMI x 1
8. eSATA x 1(reserved)
9. DVI-I
10. USB 3.0 x 2
11. Power connector

1.2 LED Indicators Status

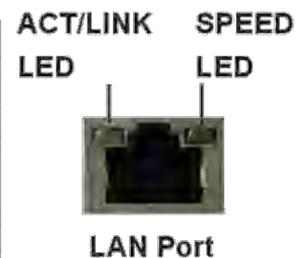
1.2.1 Video Wall Decoder Series

VD-0025/ VD-0036/ VD-0049/ VD-0064



Figure 2-3. Video Wall Decoder Series Front Panel

LAN Port LED Indications			
Activity/Link LED		SPEED LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Off	100Mbps connection
On	100Mbps connection	Yellow	1Gbps connection



⚠️ Note:

**To turn off your video wall decoder, long pressing power button at least 2 seconds.

**To turn on your video wall decoder, long pressing power button at least 3 seconds.

⚠️ Note: To reset to default, please follow below methods:

Press the power button twice with the interval of one second. In other words, please press the power button in the 1st second and press the power button again in the 2nd second. It will be easier to operate the reset to default with the assistance of watch or clock.

⚠️ Note: Once users press reset button, configuration of **Camera Setting** and **Server Settings** will reset to default.

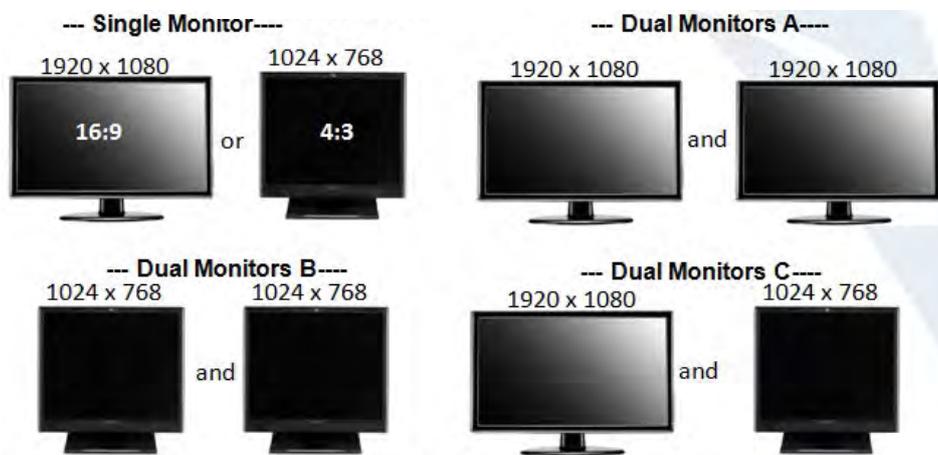
1.3 Dual Display Solution: HDMI/ DVI-I Connection

VD-0000 Series provide HDMI and DVI-I port for local display. Users can connect both of HDMI and DVI-I at the same time for video output.

Scenario A: If both monitors are Full HD(1920x1080), those will be shown as Full HD.

Scenario B: If both monitors are VGA (1024x768), those will be shown all as VGA.

Scenario C: If one of monitors is 1920x1080 and another is 1024x768, both monitors are set as 1024x768



Chapter 2. Decoder Installation

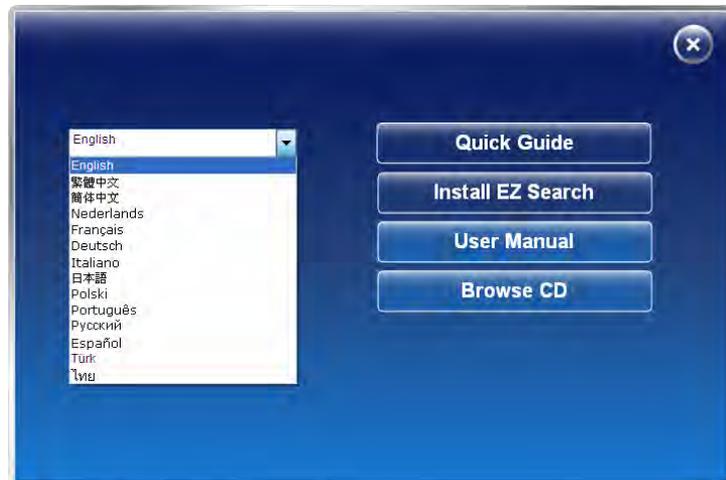
2.1 Remote Browser PC System Requirements

The following information is the minimum required specification for remote Windows PC, which users can open a remote browser from the PC to access the Linux decoder server on the network.

- **Operating System**
Microsoft® Windows® Vista /7 / 8 (32-bit and 64-bit)
- **Browsers in Windows OS (32-bit)**
Microsoft® Internet Explorer 8.0 or above, Chrome 31.0.1650.57m or above, Firefox 25 or above, Opera 17.0 or above, Safari5.1.7 or above

2.2 Connect to Video Wall Decoder

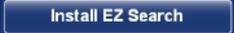
To begin, please insert the product CD-ROM in a PC to access the Quick Guide, User Manual and install the utilities. As user runs the product CD, the following menu is displayed.

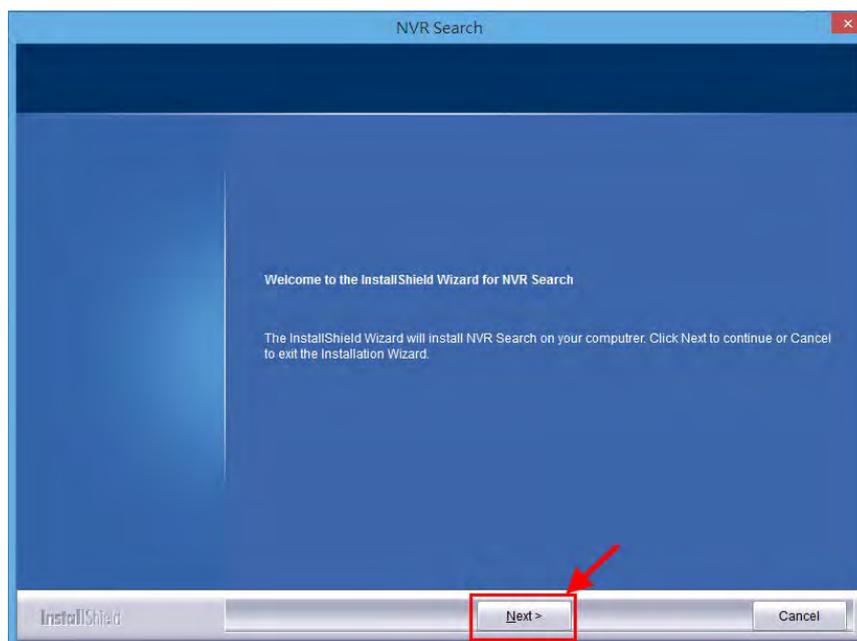


2.2.1 Quick Guide

Click “**Quick Guide**”  to enter the folder and double click the file to open. Please read Quick Guide to quickly understand the process of system installation.

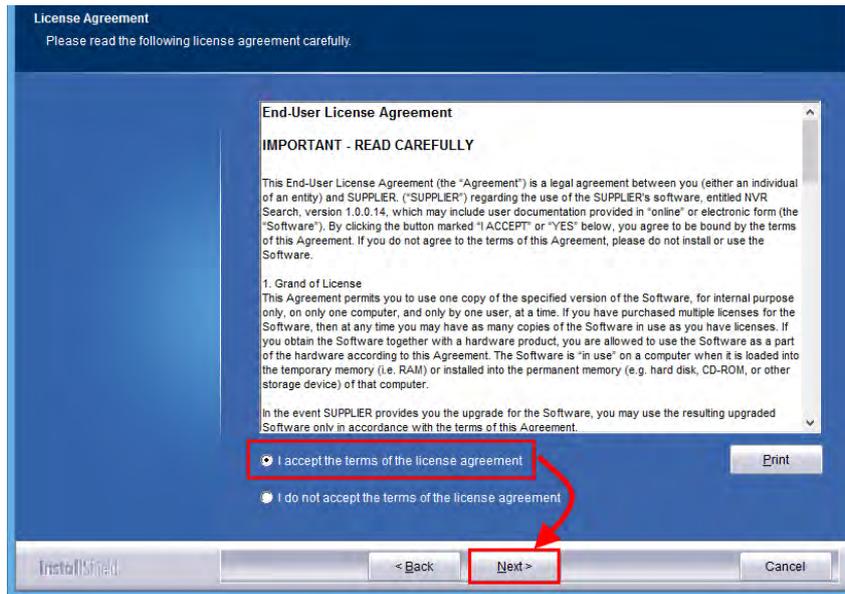
2.2.2 Install EZ Search

Click “**Install EZ Search**”  to find system in the network. Please follow the instructions to install and EZ Search will run automatically.

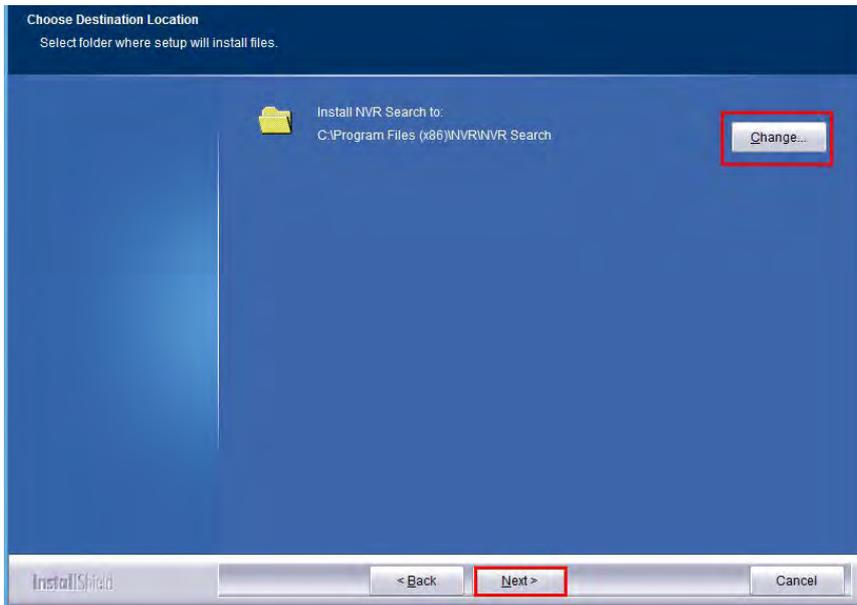


When installing EZ Search, **Shield Wizard window for EZ Search** will pop up.

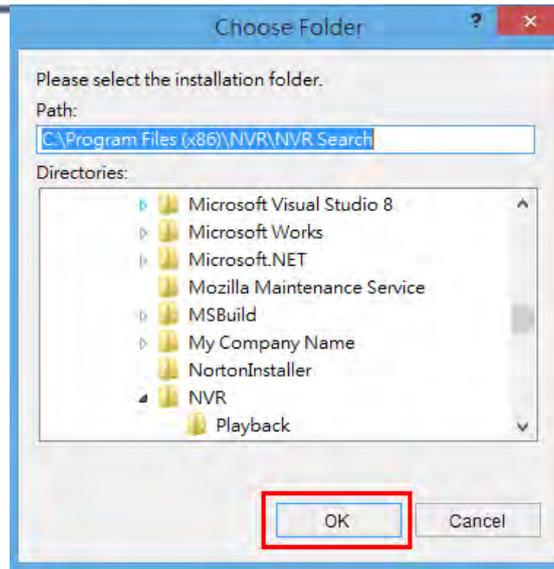
Click **“Next”** to continue installation.



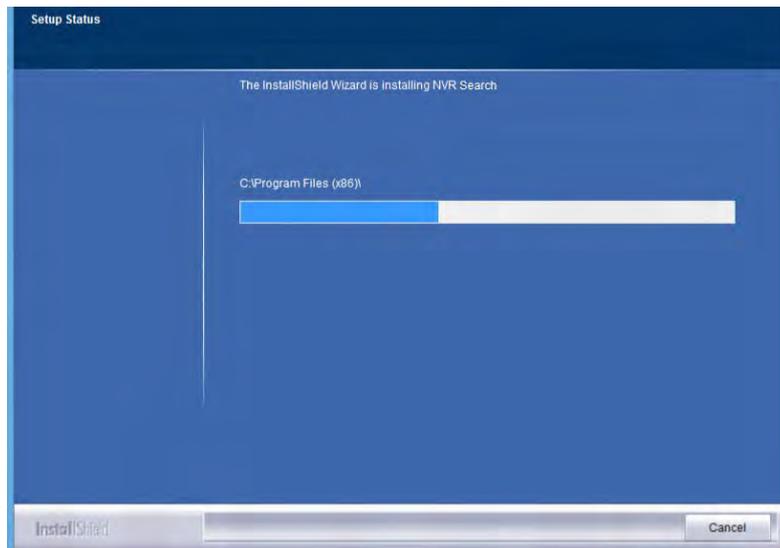
Read the license agreement and click **“I accept the terms of the license agreement”**.
Click **“Next”** to continue installation.



Select a location of destination and select a folder where the setup can install files.
The default location is: **C:\Program Files (x86)\NVR\EZ Search**. Users can also install EZ Search in other folder by clicking **“Change”** and select a location as below. Click **“OK”** to save the setting.

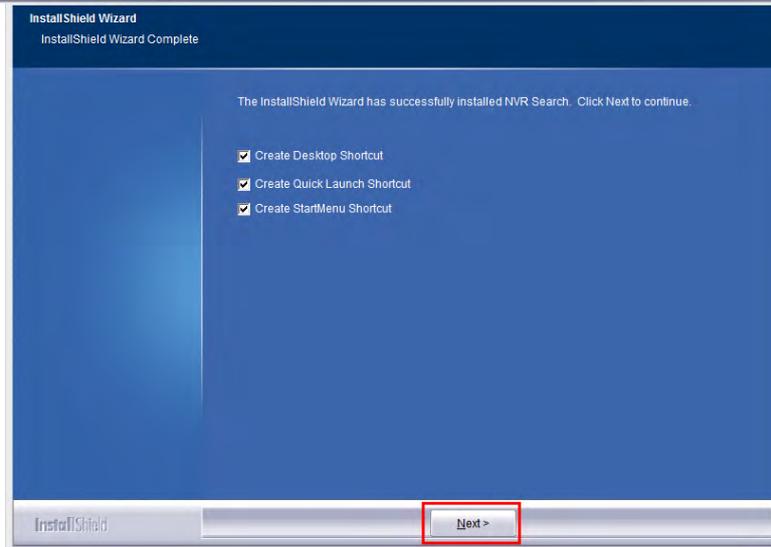


Once a folder is selected, please click **“OK”** to continue installation.

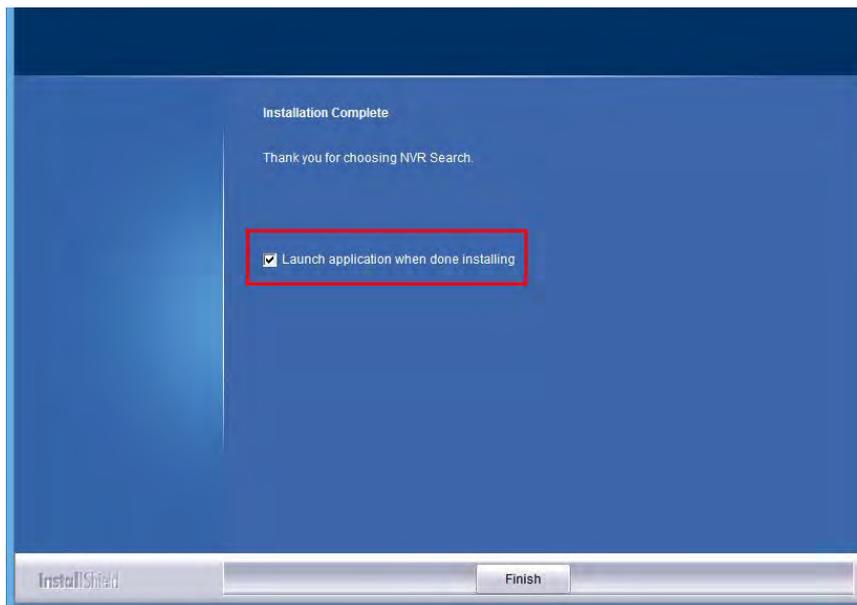


The window shows that the Install Shield Wizard is installing video wall decoder Search.

Please wait until the Wizard completes the installation.



The InstallShield has successfully installed EZ Search. Select **“Create Desktop Shortcut”/ “Create Quick Launch Shortcut”/ “Create Start Menu Shortcut”** and please click **“Next”** to continue.

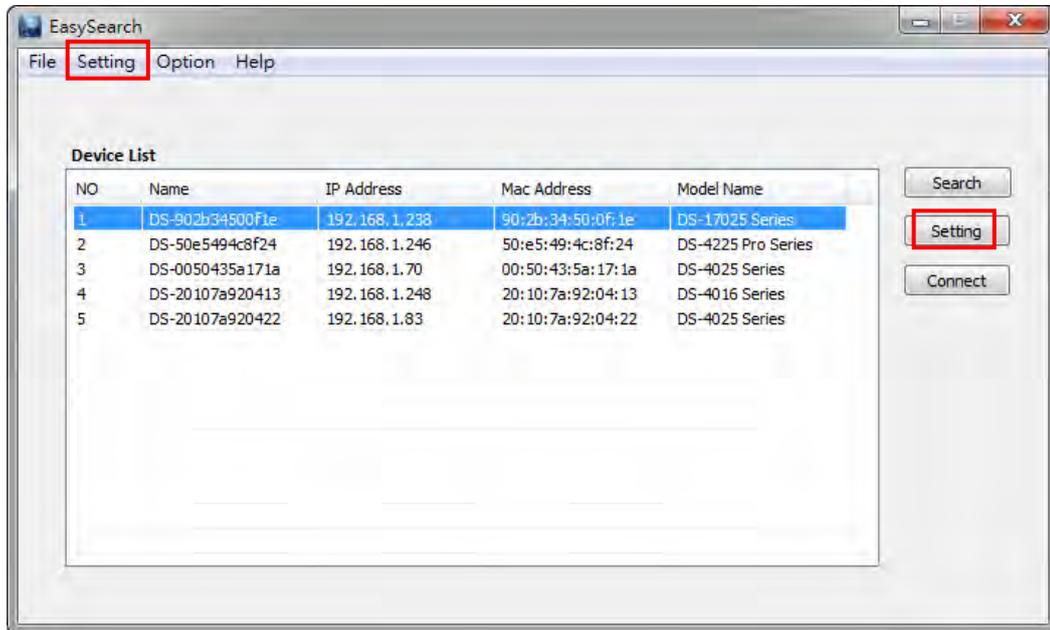


The installation is complete. Please click **“Launch application when done installing”** to execute video wall decoder Search.

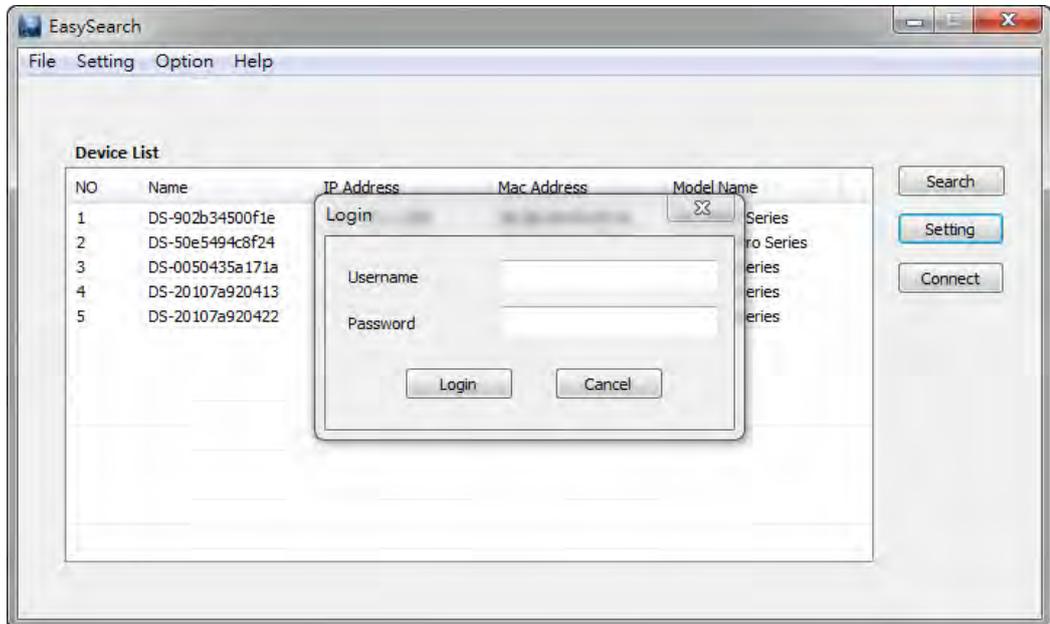
After finishing the setup, the window of video wall decoder Search will pop up. EZ Search will execute automatically and show **NO., Name, IP Address, Mac Address and Model name** of connected video wall decoder.

2. Setting

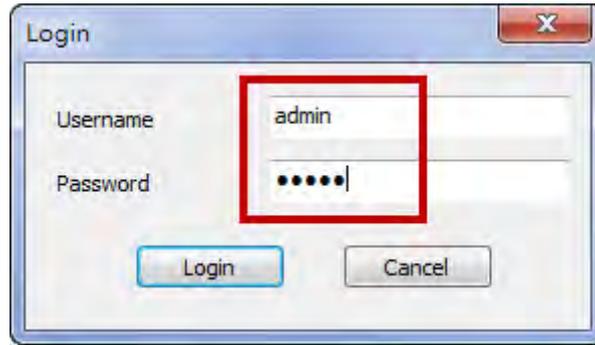
Configure UPnP and Network by clicking “**Setting**” in the top left or in the middle right.



!Note: Users will be prompted to enter the login information of Decoder before being allowed to change the setting.

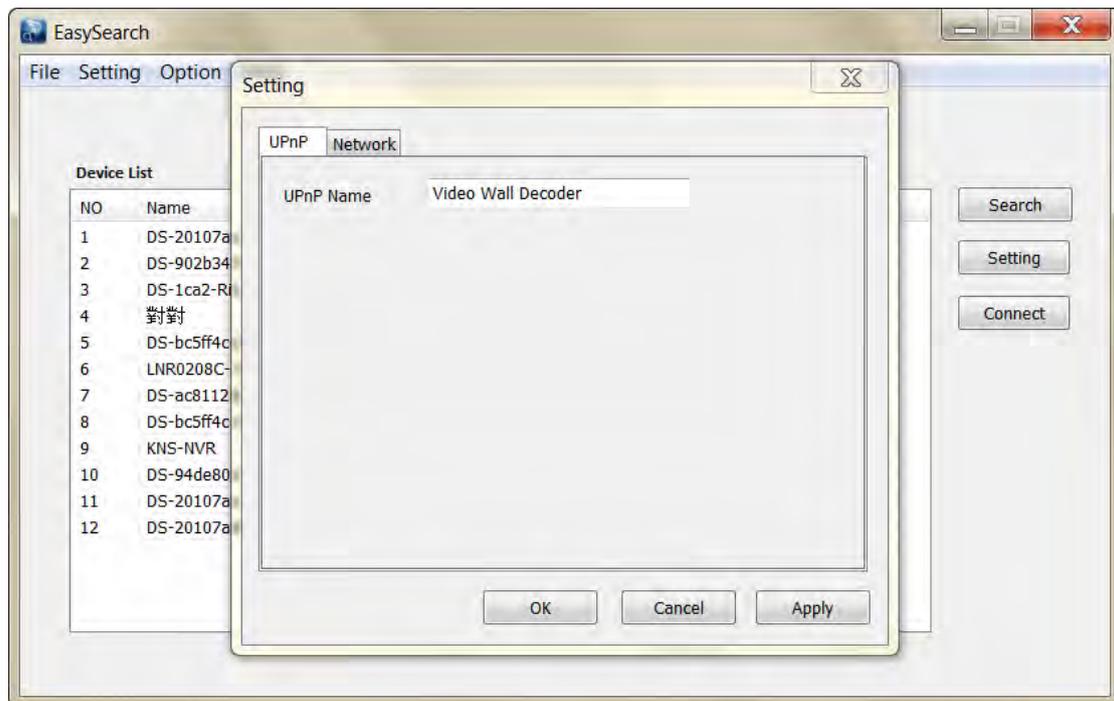


When accessing the video wall decoder setting, users will be prompted to enter username and password. For the first-time use, the default username and password are **admin/admin**. When the correct username and password have been entered, click “**Login**” to continue.



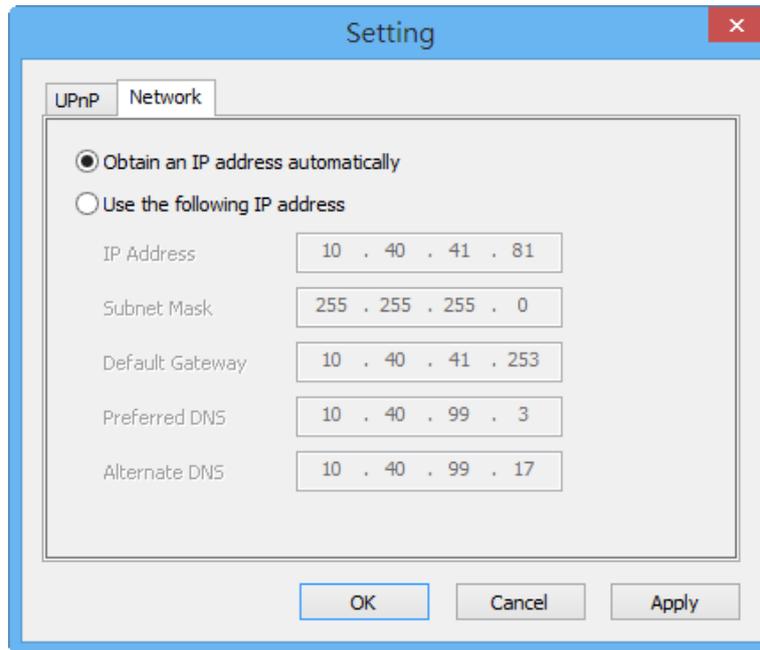
1) UPnP

Universal Plug and Play (UPnP) simplifies the process of adding a video wall decoder to a local area network. Once connected to a LAN, Video wall decoder will automatically appear on the internet. You can rename UPnP Name on the video wall decoder. Click “**OK**” to finish the setting.

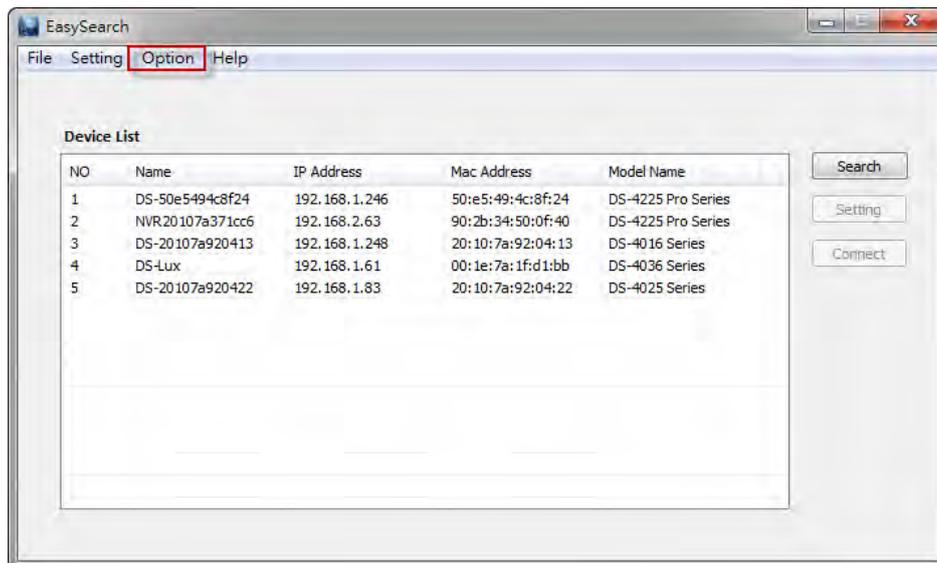


2) Network

Two models are provided for setting the network: **DHCP** and **Static IP**.



3. Option



Option provides several languages

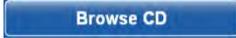


Once you click “**Connect**” or **double click** the selected video wall decoder list, IE browser will pop up automatically for the web-based interface.

2.2.3 User Manual

Click “**User Manual**”  to open the folder and double-click on user manual file to read.

2.2.4 Browse CD

Click “**Browse CD**”  to open the folder of current Autorun.exe file.

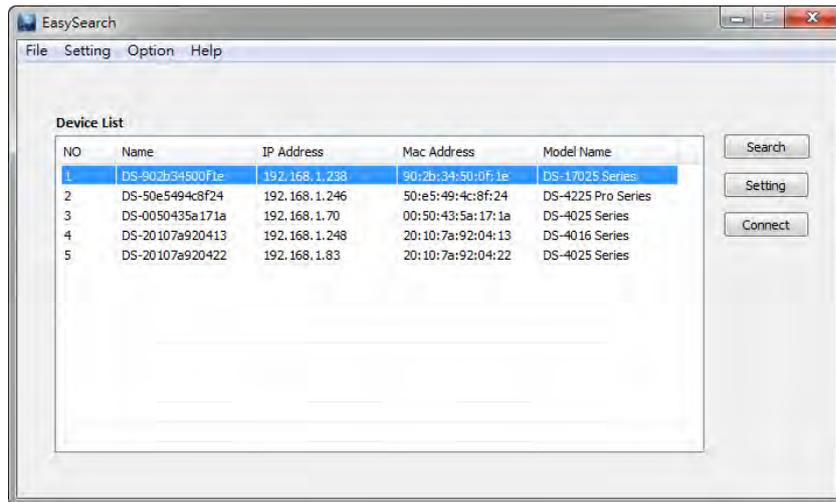
2.2.5 Connect to Video Wall Decoder

1. Connect to video wall decoder

After setting the EZ Search users can connect to the web-based interface by the following two options: **EZ Search** or **IE browser**

1) EZ Search

Once you click “**Connect**” or **double click** the selected video wall decoder list, the IE browser will pop up automatically.



2) IE browser

Log in to the system by entering its IP address in IE browser.

2. Enter username and password:

For first-time use, the default username and password are “**admin/admin.**”

3. Select the languages for the UI.

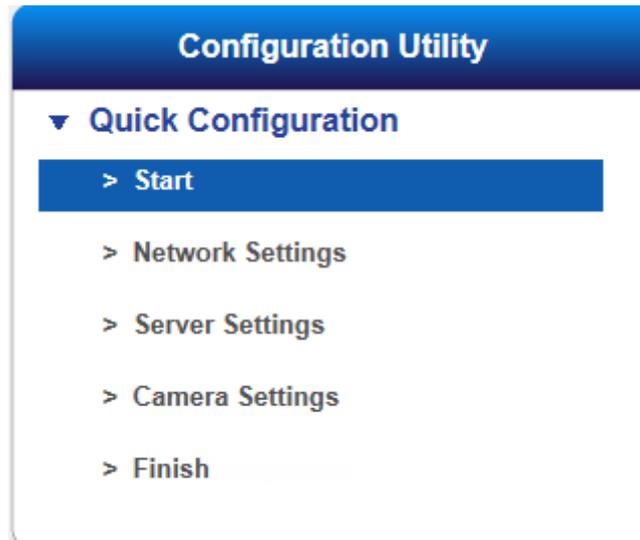


2.3 Quick Configuration

After users log in system, the system will direct you to set Quick Configuration in four main steps. Follow the instructions of the **Overview of wizard** to complete system setup.

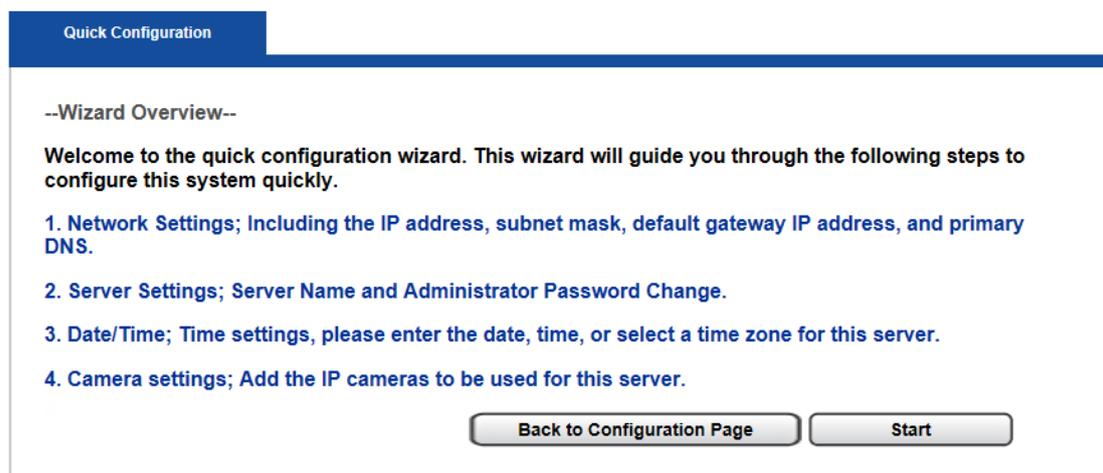
2.3.1 Start

System will lead you to “**Start**” from the drop-down menu of **Configuration Utility** to begin.



To initial the configuration, please study the **Overview of wizard** first. Through 4 steps, the wizard will guide you to set up the system quickly.

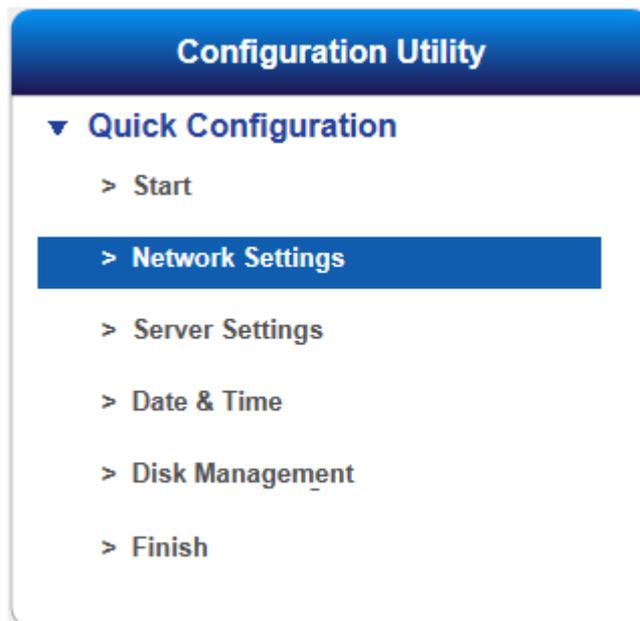
Quick Configuration - Start



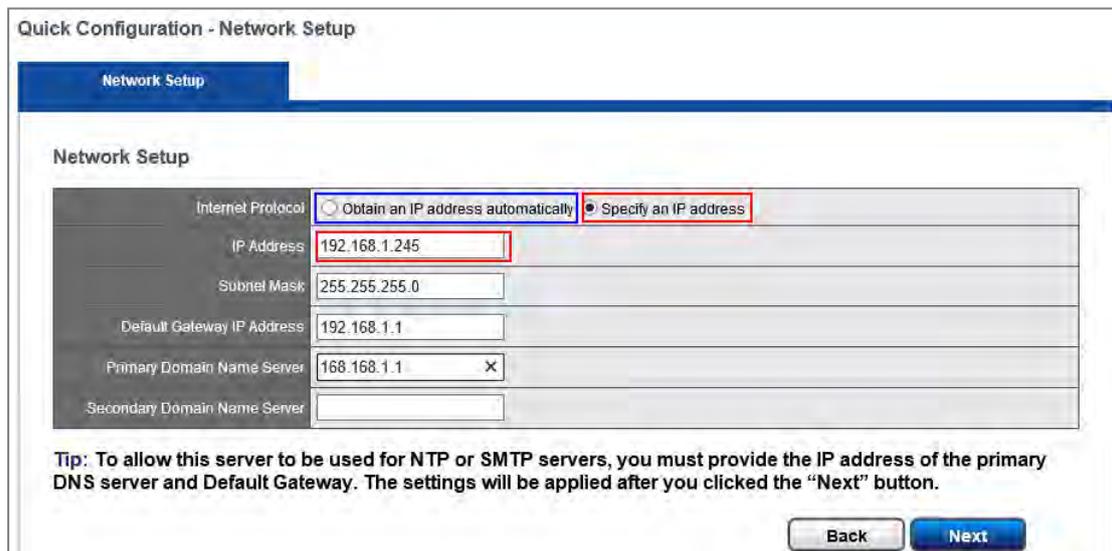
Click “**Start**” in Overview of wizard page to begin Quick Configuration.

2.3.2 Network Settings

Please select “**Network Settings**” from the drop-down menu of **Configuration Utility** to begin.



Users need to adjust the settings in the Network Setup page in order to let system work properly within network.

The image shows a screenshot of the 'Quick Configuration - Network Setup' window. The window has a blue header with the text 'Network Setup'. Below the header, there is a form titled 'Network Setup'. The form has two radio buttons: 'Obtain an IP address automatically' (which is selected) and 'Specify an IP address'. Below the radio buttons, there are several input fields: 'IP Address' (with the value '192.168.1.245'), 'Subnet Mask' (with the value '255.255.255.0'), 'Default Gateway IP Address' (with the value '192.168.1.1'), 'Primary Domain Name Server' (with the value '168.168.1.1'), and 'Secondary Domain Name Server' (which is empty). Below the form, there is a tip: 'Tip: To allow this server to be used for NTP or SMTP servers, you must provide the IP address of the primary DNS server and Default Gateway. The settings will be applied after you clicked the "Next" button.' At the bottom right of the form, there are two buttons: 'Back' and 'Next'.

- **There are 2 methods to configure IP address**
 1. **Obtain an IP address automatically (Default)**

Obtain an available dynamic IP address assigned by a DHCP server. If this option is selected, system will automatically obtain an available dynamic IP address from the DHCP server once it connects to the network.

2. Specify an IP address.

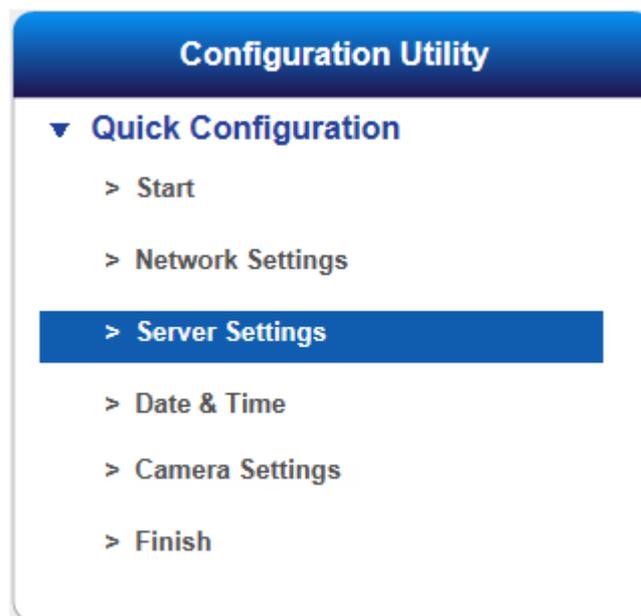
If there is no DHCP server existing in network environments, the static IP address will be given as **192.168.1.245**. It should be adaptable in most networking environment, and user can choose to maintain the default IP address or change it in this page. However, it's recommended setting different IP address of system if there is more than one decoder in the same LAN.

To assign a static IP address to the decoder:

1. Select **"Specify an IP address"**
2. Enter the **IP address, Subnet Mask, Default Gateway IP Address** and **DNS server address**.
3. If IP Address is changed, user needs to log out the system and login in again.
Click **"Next"** to proceed with the configuration.

2.3.3 Server Settings

Please select **"Server Settings"** from the drop-down menu of **Configuration Utility** to begin.



Quick Configuration - Server Settings

Server name

Server name with UPnP

Enabled

Server Name DS-20107aae7614 (Max. size: 32 characters)

Tip: To create a unique name for this server. The settings will be applied after you clicked the "Next" button.

Password Settings

Username admin Use the original password

New Password (Max. size: 15 characters)

Retype Password

Tip: If you select "Use the original password," the administrator password will not be changed. The settings will be applied after you clicked the "Next" button.

Back Next

- **Server name with UPnP**

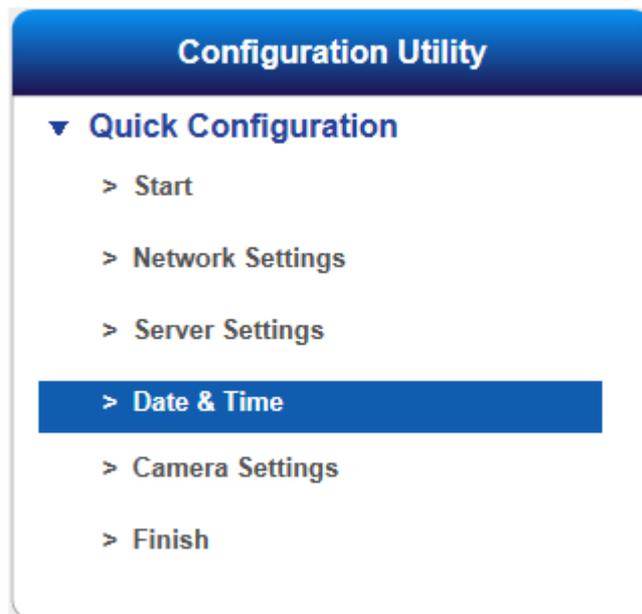
Universal Plug and Play (UPnP) simplifies the process of adding a decoder to a local area network. Once connected to LAN, the decoder will automatically appear on the internet. User can select to enable the function with UPnP and edit a sever name.

- **Password Settings**

Each decoder comes with a built-in "admin" account with password "admin." It's highly recommended to change the password upon the initial login. Enter a new password in the "New Password" field and enter it again in "Retype Password." Since you confirm "Next," the administrator password will be changed.

2.3.4 Date & Time

Please select "Date & Time" from the drop-down menu of **Configuration Utility** to begin.



1. Manual setting

Use the drop-down list and configure the time manually. Select the **Year, Month, Date** and **Time**. Time setting will be effective when you click “**Next**.”

Quick Configuration - Date/Time

Manual Time Zone

Date and Time Setting by Manual

Year	2004
Month	1
Day	25
Time	15 : 27 : 6

Back Next

2. Time Zone: Synchronize with an Internet time server automatically.

Select the time zone of your area and update the date and time of the decoder automatically with an NTP server. User also has an option to automatically adjust daylight saving time.

Quick Configuration - Date/Time

Manual Time Zone

Time Zone

Time Zone	(GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi
	<input checked="" type="checkbox"/> Adjust clock for daylight saving changes +2 hours
NTP Server	time.stdtime.gov.tw <input type="button" value="network test"/> NTP server is alive

Tip: Checked the network connection alive or not with Test. To ensure that the date and time of the network cameras is synchronized with this service, please set up all network cameras by entering the IP address of this service as their NTP server.

Back Next

Configure the time and date by verifying and adjusting current local time and daylight saving to avoid the following errors:

- Incorrect display time for playback videos.
- Inconsistent display time of event logs and when they actually occur.

Please enter the hostname of a valid NTP server to synchronize the server time with an Internet time server. NTP (Network Time Protocol) is a protocol to synchronize the clocks of a computer system.

2.3.5 Camera Settings

Decoder provides two methods to add NVRs and cameras: **UPnP Search** and **Detect**

Quick Configuration - Camera Settings

Camera Settings

Camera No.	6	Streaming Parameters	<input checked="" type="radio"/> Optimization by NVR
Camera Name	Camera 6		<input type="radio"/> Settings from camera
IP Address	192.168.1.	Port	80
Vendor	Auto	Model	
Username	admin	Password	*****
Generic URL		RTSP port	
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		
Video Server	<input checked="" type="radio"/> Disabled <input type="radio"/> Enabled 1CH		

1. Detect:

User can enter NVR or camera's **IP Address**, **username** and **password**. Then, click **"Apply"** button to start adding device.

Camera Settings

Camera No.	1	Streaming Parameters	<input checked="" type="radio"/> Optimization by NVR
Camera Name	Camera 1		<input type="radio"/> Settings from camera
1 IP Address	192.168.1.31	Port	80
Vendor	Auto	Model	
2 Username	admin	Password	*****
Generic URL		RTSP port	
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		
Video Server	<input checked="" type="radio"/> Disabled <input type="radio"/> Enabled 1CH		

3

User can **add cameras through NVR** or **directly add camera to decoder**:

(1) Add cameras through NVR

After applying correct NVR information, user will be directed to **"Add all"** page.

Camera Settings

Group Add

Add All Click Here Go to Camera Settings

No.	1	Streaming Parameters				<input checked="" type="radio"/> Optimization by NVR <input type="radio"/> Settings from camera
Camera Name	ax144	Port	80			
IP Address	192.168.1.144	Password	All *****			
Username	All root	Model	AXISM3005			
Vendor	AXIS	Video Server <input checked="" type="radio"/> Disabled <input type="radio"/> Enabled TCH				

No.	Delete	Camera Name	IP Address	Username	Password	Vendor	Model	Result
1	Delete	ax144	192.168.1.144	root	admin	AXIS	AXISM3005	
2	Delete	爱洗兜230-1	192.168.1.230	root	admin	AXIS	AXISM7016	
3	Delete	br161ブラック 番机 denЧерный	192.168.1.161	admin	admin	Brickcom Corporation	Brickcom CorporationBrickcom- 50xA	
4	Delete	6Rfns	192.168.1.152	admin	admin	Brickcom	Brickcom	

By clicking “Delete” button, user can delete the camera that you do not want to add to decoder.

Camera Settings

Group Add

Add All Click Here Go to Camera Settings

No.	1	Streaming Parameters				<input checked="" type="radio"/> Optimization by NVR <input type="radio"/> Settings from camera
Camera Name	ax144	Port	80			
IP Address	192.168.1.144	Password	All *****			
Username	All root	Model	AXISM3005			
Vendor	AXIS	Video Server <input checked="" type="radio"/> Disabled <input type="radio"/> Enabled TCH				

No.	Delete	Camera Name	IP Address	Username	Password	Vendor	Model	Result
1	Delete	ax144	192.168.1.144	root	admin	AXIS	AXISM3005	
2	Delete	爱洗兜230-1	192.168.1.230	root	admin	AXIS	AXISM7016	
3	Delete	br161ブラック 番机 denЧерный	192.168.1.161	admin	admin	Brickcom Corporation	Brickcom CorporationBrickcom- 50xA	
4	Delete	6Rfns	192.168.1.152	admin	admin	Brickcom	Brickcom	

Please click “Add All” button to start adding cameras.

(2) Directly add camera to decoder

When successfully adding cameras, decoder will display camera information in camera list.

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1			80			
2	Messoa182	192.168.5.182	80	Messoa	NDF821PRO	Delete
3	messoa184	192.168.5.184	80	Messoa	NCR875PRO	Delete
4	Camera 4	192.168.1.147	80	AXIS	215 PTZ	Delete
5	Camera 5	192.168.1.224	80	Brickcom Corporation	OSD-040D	Delete
6			80			

⚠ Note: Camera Name, Username and Password are editable. After clicking “Apply” button, **vendor, username and password** will be automatically filled in by vendor’s default information.

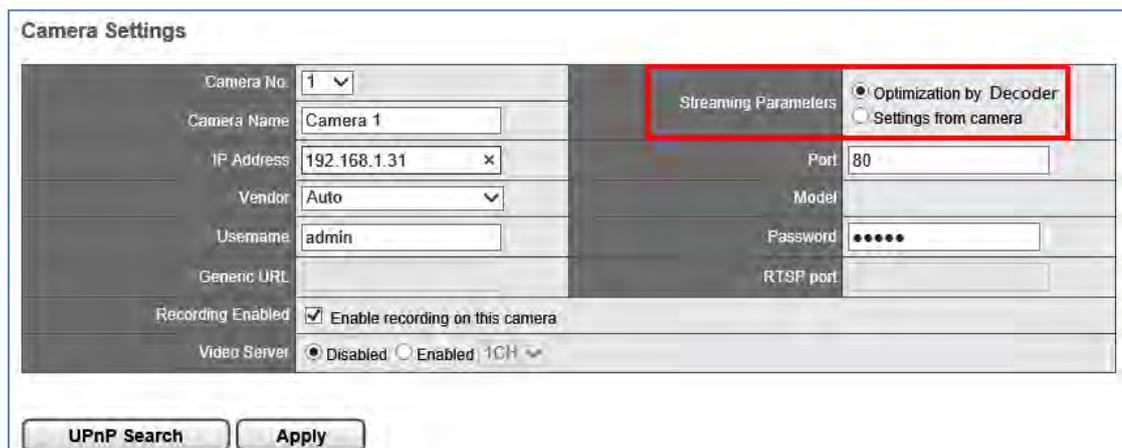
- **Memorize modified username and password:**

Decoder can memorize username and password which is modified by users after users click “**Apply**” button. Then, the default username and password of that vendor will be replaced by the modified one. Next time when users add new camera of the specific vendor, username and password will be automatically filled in by new modified one.

 **Note:** Each vendor has its own default username and password.

- **Streaming Parameters**

Decoder provides two options to set up stream parameters: **Optimization by decoder** and **Settings from camera**.



Camera Settings	
Camera No.	1
Camera Name	Camera 1
IP Address	192.168.1.31
Vendor	Auto
Username	admin
Generic URL	
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera
Video Server	<input checked="" type="radio"/> Disabled <input type="radio"/> Enabled 1CH
Streaming Parameters	
<input checked="" type="radio"/> Optimization by Decoder	
<input type="radio"/> Settings from camera	
Port	80
Model	
Password	*****
RTSP port	

UPnP Search Apply

(1) Optimization by Decoder

By selecting this option, decoder will optimize settings to perform the best surveillance efficiency.

(2) Settings from camera

If users have already set up camera settings from camera webpage, decoder can adopt camera setting by selecting “Setting from Camera.” This option can largely save users’ time and effort when users install surveillance systems.



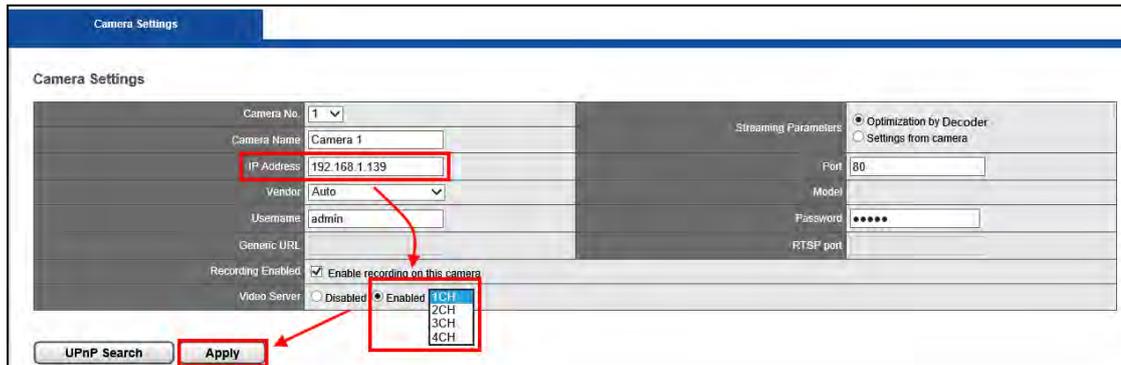
Note: It is highly recommend to use “**Optimization by Decoder**” to perform the best surveillance quality in both live-view and playback.

- **Multi-channel Video Server**

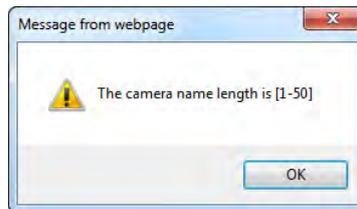
Decoder supports multi-channel video server to connect analog cameras to decoder.

Users are asked to enter **IP Address**. Check correct **username** and **password**.

Please click **“Enable” Video Server** and choose the channel number. Then, click **“Apply”** button.



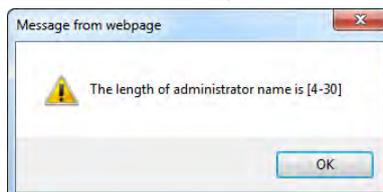
If there is any error occurred in entering the following information, the notification window will pop up as below.



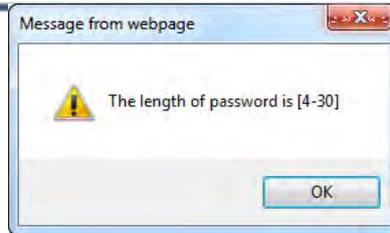
When an inappropriate address is entered, a window will pop up as below.



When an inappropriate user name is entered, a window will pop up as below.



When an inappropriate password is entered, a window will pop up as below.



- **Delete**

If any camera should be deleted from camera list, please click the column turning into blue and click “Delete” button.

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1			80			
2	Messoa182	192.168.5.182	80	Messoa	NDF821PRO	<input type="button" value="Delete"/>
3	messoa184	192.168.5.184	80	Messoa	NCR875PRO	<input type="button" value="Delete"/>
4	Camera 4	192.168.1.147	80	AXIS	215 PTZ	<input type="button" value="Delete"/>
5	Camera 5	192.168.1.224	80	Brickcom Corporation	OSD-040D	<input type="button" value="Delete"/>
6			80			

A window will pop up to ensure the action.



To delete the camera, click “OK” to proceed.

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1			80			
2			80			
3	messoa184	192.168.5.184	80	Messoa	NCR875PRO	<input type="button" value="Delete"/>
4	Camera 4	192.168.1.147	80	AXIS	215 PTZ	<input type="button" value="Delete"/>
5	Camera 5	192.168.1.224	80	Brickcom Corporation	OSD-040D	<input type="button" value="Delete"/>
6			80			

The camera has been deleted from camera list.

- **Generic RTSP/ Generic MJPEG**

Decoder provides the interface for users to enter RTSP/ MJPEG URLs of IP cameras to receive the video streaming from IP camera. The streaming will be applied to monitoring, recording and playback.

Generic RTSP and Generic MJPEG function can be selected in the vendor list of camera setting page.

The screenshot shows the 'Camera Settings' interface for Camera No. 6. The 'Vendor' dropdown menu is open, displaying a list of manufacturers including HikVision, Hunt, iCanTek, JVC, LILIN, Linksys, Messoa, MOBOTIX, NEXCOM, Panasonic, PROBE, QUATRE PLAN, RIVA, Samsung, SANYO, SECUBEST, SecuRex, SHANNY, Sony, Sunell, Takeex, UDP, ViDiGi, VIVO/TEK, VISEO, YOKO, ZAVIO, and ZANNE. The 'Generic_RTSP (H264)' and 'Generic_MJPEG' options are highlighted with a red box. The 'Camera List' table below shows the current configuration for Camera 6.

No.	Camera Name	Vendor	Model	Port	Delete
1	Camera 1			80	Delete
2	Camera 2			80	Delete
3	Camera 3			80	Delete
4	Camera 4			80	Delete
5	Camera 5			80	Delete
6	Camera 6	Generic_RTSP (H264)		80	Delete
7		Generic_MJPEG		80	Delete

Follow by entering the Generic URL column with proper RTSP or MJPEG URLs.

If Generic RTSP is selected, RTSP port should be filled out too.

Click **“Apply”** button to make parameters enable

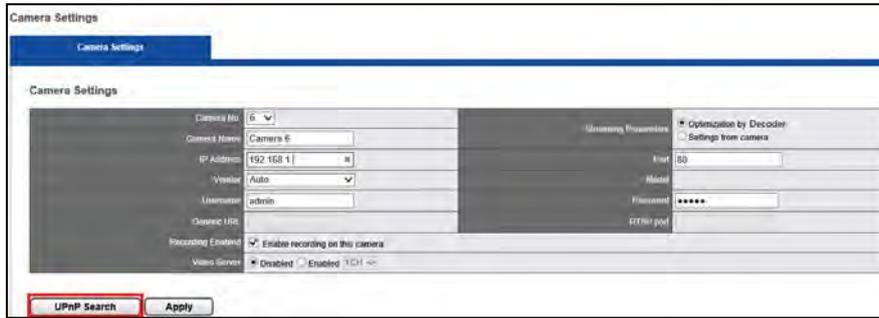
The screenshot shows the 'Camera Settings' interface for Camera No. 6. The 'Vendor' dropdown is now set to 'Generic_RTSP (H264)'. The 'Generic URL' field is filled with 'http://192.168.1.6/channel1' and the 'RTSP port' field is filled with '554'. Both fields are highlighted with a red box. The 'Apply' button is also highlighted with a red box. A tip at the bottom of the form reads: 'Tip: If the path is http://192.168.1.6/channel1. The Generic URL should be filled out as channel1.'

⚠ The most correct URLs should be provided from each camera vendors.

⚠ Users may also refer to websites

- <https://www.solerte.com/rtsp/>
- <http://www.ispyconnect.com/sources.aspx>

2. UPnP Search:



Click “UPnP Search” to find out UPnP devices within the LAN.

- ⚠ Please make sure IP camera supports UPnP Search function.
- ⚠ Please go to IP Camera web page to enable UPnP search function.



Please wait. The UPnP search is in a process.

The available cameras in the network will be displayed. The Added column will show two numbers to display the total channels of decoder and the channel numbers that has been already added in the decoder.

Quick Configuration - Camera Settings

Group Add

Add

No.	IP Address	Port	Vendor	Model	Number	MAC	Added(5/16) All
1	192.168.1.1	80	Buffalo Inc.	Airstation	Beta3.1d	A9-16-A2-0E-DD-8A	<input type="checkbox"/>
2	192.168.1.11	80	Digiever Corporation	DS-bc5ff4ccd405	v2.1.0.52-rc9.9	31-3E-88-38-63-CE	<input type="checkbox"/>
3	192.168.1.15	80	Brickcom Corporation	Brickcom-30xN	v3.2.2.7	40-90-31-63-07-00	<input checked="" type="checkbox"/>
4	192.168.1.19	80	Brickcom Corporation	Brickcom-30xN	v3.2.2.7	00-40-8C-E4-C7-38	<input checked="" type="checkbox"/>
5	192.168.1.85	80	AXIS	AXIS M3005	M3005	00-22-F4-CE-47-DD	<input checked="" type="checkbox"/>
6	192.168.1.102	80	Brickcom Corporation	Brickcom-30xN	v3.2.3.2C32	00-0E-53-23-4C-89	<input checked="" type="checkbox"/>
7	192.168.1.111	80	Brickcom Corporation	Brickcom-30xN	v3.2.2.4	00-0E-53-EE-3D-5E	<input type="checkbox"/>
8	192.168.1.139	80	VIVOTEK INC.	Mega-Pixel Network Camera	FD8164	20-10-7A-5A-19-57	<input type="checkbox"/>
9	192.168.1.162	80	HIKVISION	HIKVISION DS-2CD7153-E	DS-2CD7153-E	00-22-F4-CE-47-C6	<input checked="" type="checkbox"/>
10	192.168.1.173	80	AVTECH Corporation.	Surveillance	IP CAMERA (Fixed) AVM457A-000E53EE3D5E	00-22-F4-81-D5-60	<input type="checkbox"/>
11	192.168.1.179	80	AVTECH Corporation.	Surveillance	IP CAMERA (Fixed) AVN813-000E53234C89	BC-5F-F4-CC-D4-05	<input type="checkbox"/>

Click the camera that you would like to add to decoder, then click “Add” button.

⚠ **Note:** Users can click “All” to add cameras in Added column.

User can **add cameras through NVR** or **directly add camera to decoder**:

(1) Add cameras through NVR

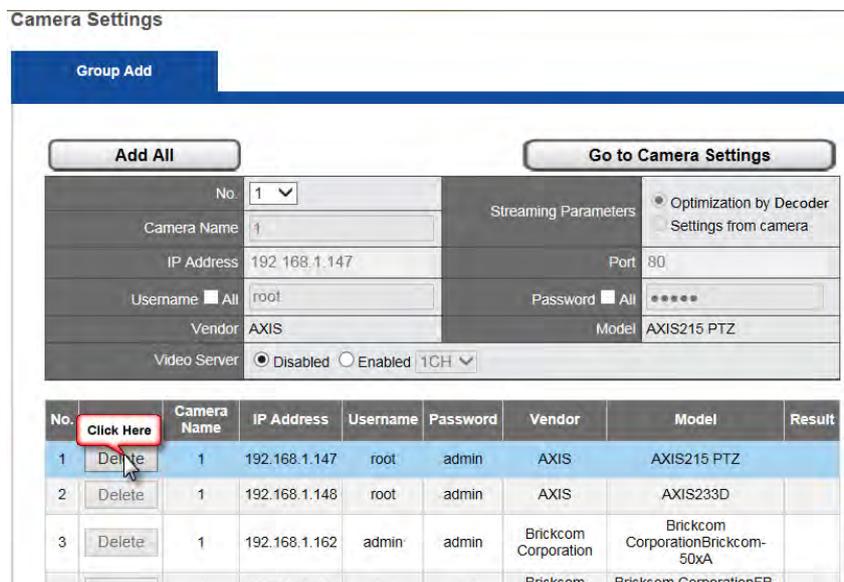
When selecting a NVR to add to decoder, a window will pop out to ask NVR password.

Please enter the correct password. Then, click “Connect” button.



IP Address	192.168.1.111
Username	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="Log in"/> <input type="button" value="Cancel"/>	

By clicking “Delete” button, user can delete the camera that you do not want to add in decoder.



Camera Settings

Group Add

No.	1	Streaming Parameters		<input checked="" type="radio"/> Optimization by Decoder
Camera Name	1			<input type="radio"/> Settings from camera
IP Address	192.168.1.147	Port	80	
Username	root	Password	*****	
Vendor	AXIS	Model	AXIS215 PTZ	
Video Server	<input checked="" type="radio"/> Disabled <input type="radio"/> Enabled 1CH			

No.	Camera Name	IP Address	Username	Password	Vendor	Model	Result
1	1	192.168.1.147	root	admin	AXIS	AXIS215 PTZ	
2	1	192.168.1.148	root	admin	AXIS	AXIS233D	
3	1	192.168.1.162	admin	admin	Brickcom Corporation	Brickcom CorporationBrickcom-50xA	
					Brickcom	Brickcom CorporationFB-	

Please click “Add All” button to start adding cameras.

(2) Directly add cameras to decoder

If user directly adds camera in decoder, please check camera information in Group add page. Then, Click “Add All” button to start adding cameras

No.	Delete	Camera Name	IP Address	Username	Password	Vendor	Model	Result
1	Delete	Camera 5	192.168.1.173	admin	admin	AVTECH Corporation	Surveillance	

⚠ Note: Decoder will automatically fill in default **username and password** of each vendor. **Camera No., Camera Name, User Name and Password** can be modified by users.

- **Memorize modified username and password:**

Decoder will memorize username and password which is modified by users after users click “**Apply**” button. Then, the default username and password of that vendor will be replaced by the modified one. Next time when users add new camera of the specific vendor, username and password will be automatically filled in by new modified one.

⚠ Note: Each vendor has its own default username and password.

⚠ Note: By clicking “**All**” option beside Username and Password, decoder will automatically memorize modified username and password of that camera brand.

No.	Delete	Camera Name	IP Address	Username	Password	Vendor	Model	Result
1	Delete	Camera 1	192.168.1.173	admin	admin	AVTECH Corporation	Surveillance	
2	Delete	Camera 2	192.168.1.179	admin	admin	AVTECH Corporation	Surveillance	

As above example, decoder will modify default username and password of AVTECH camera and make the new username and password become AVTECH’s default username and password.

Status column in camera list will display “**Successful**” when cameras are successfully added in the decoder.

Group Add

No.	1	Streaming Parameters	<input type="radio"/> Optimization by Decoder <input type="radio"/> Settings from camera
Camera Name	Camera 6	Port	80
IP Address	192.168.1.173	Password	admin
Username	admin	Model	Surveillance
Vendor	AVTECH Corporation.		
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		
Video Server	<input type="radio"/> Disabled <input type="radio"/> Enabled 1CH		

No.	Delete	Camera Name	IP Address	Username	Password	Vendor	Model	Result
1	<input type="button" value="Delete"/>	Camera 6	192.168.1.173	admin	admin	AVTECH Corporation.	Surveillance	Successful

Please click **“Go to Camera Settings”** button to check all camera information camera list that is successfully added in the decoder.

Group Add

No.	1	Streaming Parameters	<input type="radio"/> Optimization by Decoder <input type="radio"/> Settings from camera
Camera Name	Camera 6	Port	80
IP Address	192.168.1.173	Password	admin
Username	admin	Model	Surveillance
Vendor	AVTECH Corporation.		
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		
Video Server	<input type="radio"/> Disabled <input type="radio"/> Enabled 1CH		

No.	Delete	Camera Name	IP Address	Username	Password	Vendor	Model	Result
1	<input type="button" value="Delete"/>	Camera 6	192.168.1.173	admin	admin	AVTECH Corporation.	Surveillance	Successful

No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera 1	192.168.1.15	80	Corporation	Beiccom-300N	<input type="button" value="Delete"/>
2	Camera 2	192.168.1.16	80	Corporation	Beiccom-300N	<input type="button" value="Delete"/>
3	Camera 3	192.168.1.15	80	ANS	M2005	<input type="button" value="Delete"/>
4	Camera 4	192.168.1.102	80	Beiccom Corporation	Beiccom-300N	<input type="button" value="Delete"/>
5	Camera 5	192.168.1.162	80	Hikvision	DS-2CD7153-E	<input type="button" value="Delete"/>
6	Camera 6	192.168.1.173	80	AVTECH	AVM67A	<input type="button" value="Delete"/>
7			80			

- Multi-channel Video Server**

Decoder supports multi-channel video server feature to connect analog cameras to decoder.

Please click **“Enable” Video Server** and choose the channel number. Please click **“Add All”** button after finishing checking all camera information.

Group Add

No.	1	Streaming Parameters	<input type="radio"/> Optimization by Decoder <input type="radio"/> Settings from camera
Camera Name	Camera 1	Port	80
IP Address	192.168.1.139	Password	admin
Username	admin	Model	Mega-Pixel Network Camera
Vendor	VIVOTEK INC.		
Recording Enabled	<input checked="" type="checkbox"/> Enable recording on this camera		
Video Server	<input type="radio"/> Disabled <input checked="" type="radio"/> Enabled 1CH 2CH 3CH 4CH		

No.	Delete	Camera Name	IP Address	Username	Password	Vendor	Model	Result
1	<input type="button" value="Delete"/>	Camera 1	192.168.1.139	admin	admin	VIVOTEK INC.	Mega-Pixel Network Camera	

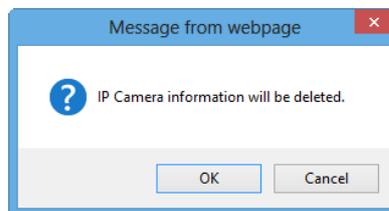
- **Delete**

User can click “**Delete**” button to remove the camera from system.

Please click a camera and click “**Delete**” button.

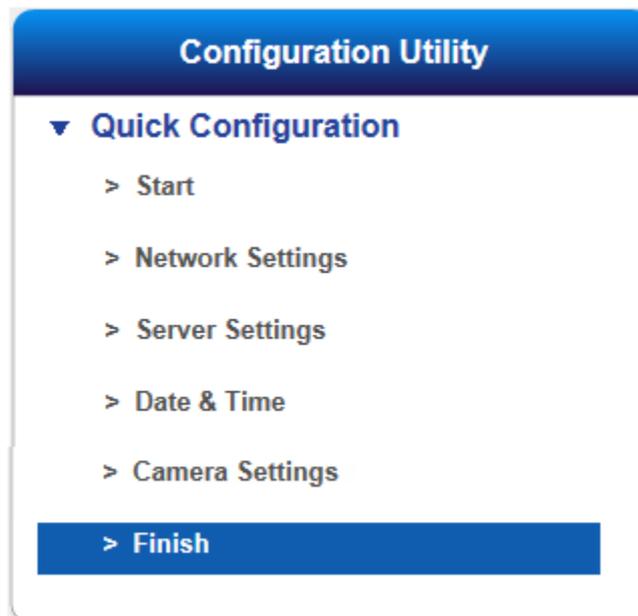
No.	Camera Name	IP Address	Port	Vendor	Model	Delete
1	Camera 1	192.168.1.15	80	Brickcom Corporation	Brickcom-30xN	Delete
2	Camera 2	192.168.1.19	80	Brickcom Corporation	Brickcom-30xN	Delete
3	Camera 3	192.168.1.85	80	AXIS	M3005	Delete
4	Camera 4	192.168.1.102	80	Brickcom Corporation	Brickcom-30xN	Delete
5	Camera 5	192.168.1.162	80	HiKVision	DS-2CD7153-E	Delete
6	Camera 6	192.168.1.173	80	AVTECH	AVM457A	Delete

A window will pop up to ensure the execution. Please click “**OK**” to proceed.

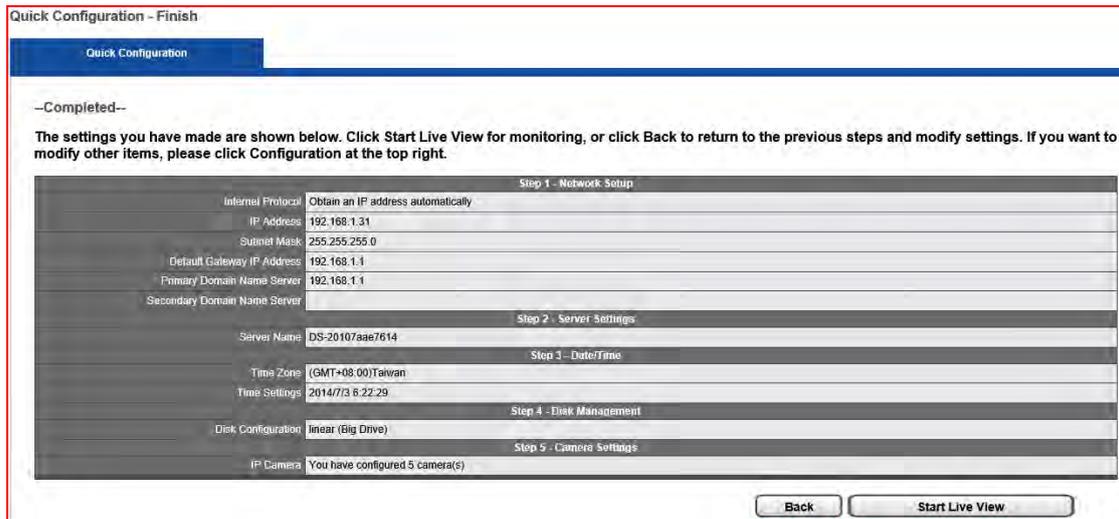


2.3.6 Finish

Please select “**Finish**” from the drop-down menu of **Configuration Utility** to begin.



Once 4 steps of Quick Configuration are completed, the window will show the completed status. You can click “**Back**” to return to the previous steps to modify the configuration or click “**Start Live view**” to start monitoring at local liveview.



To review the setting or information of Quick Configuration, user can also select “**Quick Configuration**” in the left of the Configuration main page.



Chapter 3. Use Video Wall Decoder by Local Display

Video wall decoder can be connected to a monitor via HDMI and DVI port to execute quick configuration and display liveview.

To start local display, please check the steps below:

1. Connect video wall decoder and IP cameras to the network.
2. Make sure the monitor is connected to the port (HDMI / DVI-I) of rear panel.
3. Please connect a USB mouse to the USB port of the decoder.
4. Please connect power cord and connector to turn on system.
5. When you enter the log in interface, please enter default user name “**admin**” and password “**admin**” and select languages.

3.1 Log in Decoder

Users have to key in the correct username and password to login decoder



The screenshot shows a login dialog box with a blue background. It features a 'User Name' input field containing 'admin', a 'Password' input field with masked characters, and two checkboxes: 'Anonymous' (unchecked) and 'Remember Username and Password' (checked). Below these are two buttons: 'Log In' and 'Cancel'. At the bottom, there is a language dropdown menu showing 'English' and a resolution dropdown menu showing '1024x768'.

Currently, Video Wall Decoder supports two resolutions: 1920 x1080 and 1024x768. It is highly recommend to use Full HD (1920 x 1080) to display the best video quality.

1.1.1 Anonymous login

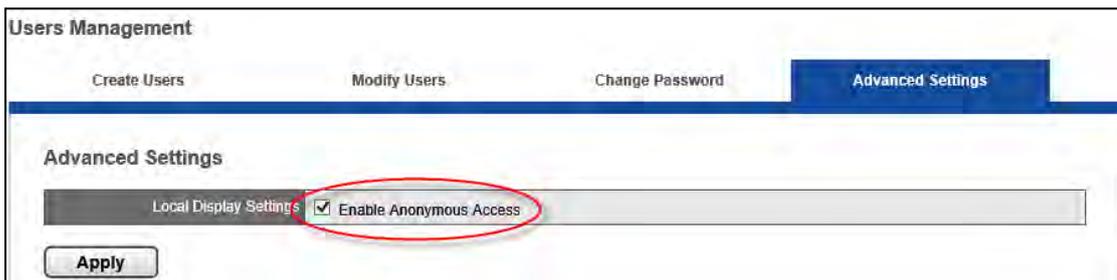
Anonymous login allows users to login without username and password.



Anonymous user can only view live monitoring and playback page in local monitor, however, the configuration page will be disabled. While anonymous login is applied, system will automatically log in without authorization process after boot up.

Start to setup the anonymous login

- A. Please go to “Configuration->Management->Users Management->Advance Settings” in remote web browser.
- B. Check the “Enable Anonymous Access.”



- C. Enable the “Anonymous” at the local display login page, and then log in.



1.1.2 Virtual Keyboard

Users can choose to use USB keyboard for typing on local display, or fill out columns with virtual keyboard. The virtual keyboard in local display can be enabled from the right side of each column.



There are 3 types of virtual keyboard can be chosen, including Upper case, Lower case and Symbols.

-Upper case



-Lower case



-Symbols



3.2 Liveview

After the Quick Configuration is complete, users can successfully monitor IP cameras. In liveview page, users can monitor cameras in various display modes and control PTZ cameras.



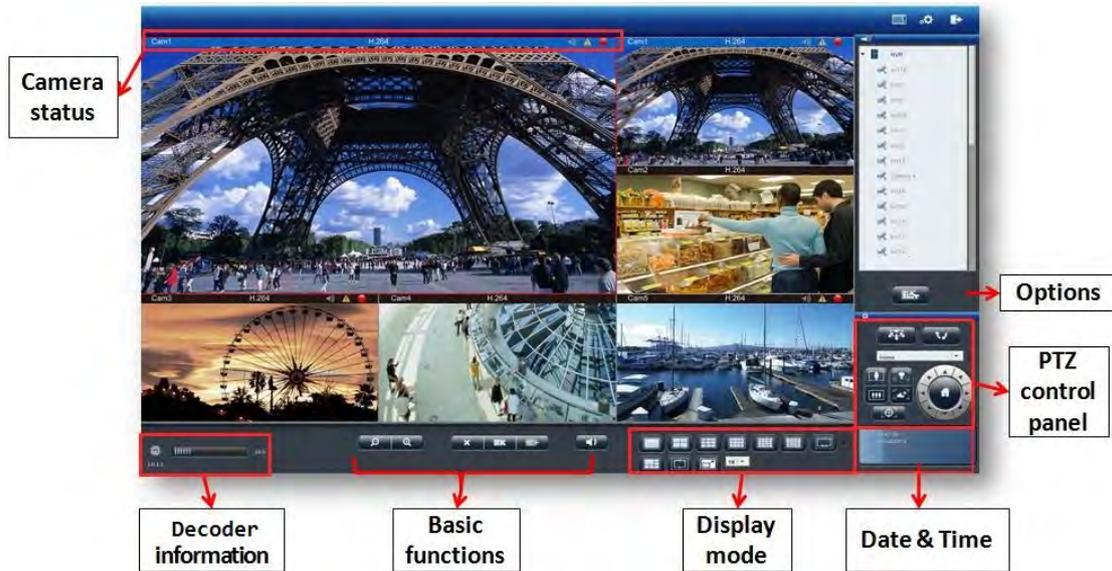
3.2.1 Select View Modes on Liveview Page



On top right of live view, users can select four view modes.

Mode	Description
	Liveview: Click "Liveview" to control the monitoring.
	Configuration: Click "Configuration" to configure IP camera, network, system, etc.
	Logout: Click "Logout" to leave decoder.

3.2.2 Main Functions for Live View



1. Camera status

Icon	Description
	Camera name: The name of the camera is located in the top left corner in each video window.
	Video compression format: M-JPEG/MPEG-4/H.264
	Audio: Once camera supports audio, decoder shows audio in blue. Vice versa, decoder shows audio in grey.
	Recording status: The window shows whether camera is recording or not.
	Blue border: The outline border surrounds the selected window to highlight the focus image.

2. System information

(1) Firmware version

User can easily find out the firmware version in the live view page.



(2) CPU loading indicator:

Users can find out CPU loading directly without entering configuration page.



CPU loading indicator shows blue when loading is 70% or under, and shows red as a warning when it reach to more than 70%.



With changing the video configuration, like resolution, FPS and video quality, can influence the CPU loading, and users can easily find the best balance in Decoder.

3. Basic functions

Icon	Description
	Digital zoom in/ out: Select a channel to enable digital zoom function
	Drop: Drop the camera from monitoring.
	Drop all: Drop all cameras from monitoring.
	Add all: Add all cameras from monitoring.
	Mute: Alter sound instrument from camera.
	Date & Time: Show the day and time.

4. Display mode

Decoder supports multi-display modes for monitoring. Click the icon of display mode to monitor liveview. When you click a display mode, the mode icons will turn into blue.

Icon	Description
	Full Screen
	1 screen

	4 screen
	9 screen
	12 screen
	16 screen
	20 screen
	25 screen
	5+1 screen
	Sequential mode
	<div style="text-align: right;">  </div> <p>Click  to choose the page of liveview</p>

5. PTZ Control Panel

If the IP camera supports PTZ function, user can use the control panel to adjust the viewing angle. The following functions are available depending on the camera models.

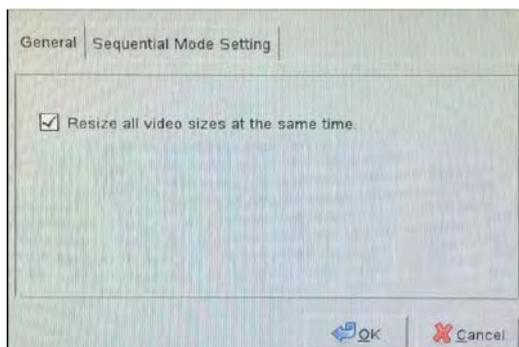
Icon	Description
	<p>PTZ panel:</p> <p>PTZ allows users to monitor large areas with a single network camera. Pan, tilt, and zoom functions can be controlled remotely by users. If device supports PTZ control, users can click on the arrows to pan and/ or tilt the camera. The house in the middle can take you back to original monitoring position.</p>
	<p>Preset positions:</p> <p>Select the preset positions which are defined in PTZ camera and the camera will move to the position that user selects.</p>
	<p>Optical zoom in/ out:</p> <p>If camera supports PTZ control, users can adjust PTZ camera to zoom out or zoom in.</p>

	<p>Focus near / far: If camera supports PTZ control, users can adjust the focus of the PTZ camera to focus near or focus far.</p>
	<p>Auto Focus: To automatically focuses the camera lens on a subject.</p>
	<p>Schedule for PTZ: Select “Set” to set camera preset position. It can open the dialog to set how many times PTZ cruise to repeat and how many seconds stay between each preset point.</p> <div data-bbox="555 651 1150 846" style="border: 1px solid gray; padding: 5px; margin: 10px auto; width: fit-content;"> <p>Repeat(1~999 times, 1000:infinite): <input type="text" value="1000"/></p> <p>Interval(3~1200 seconds): <input type="text" value="5"/></p> <p style="text-align: right;"><input type="button" value="OK"/> <input type="button" value="Cancel"/></p> </div>
	<p>Schedule for PTZ: Click “Go” to start PTZ patrol schedule.</p>

6. Option

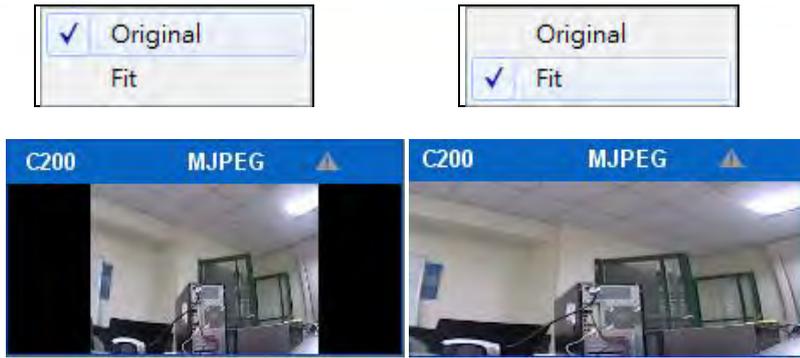
Option button can let users directly to do live-view setting such as warning setting, windows setting and sequential mode setting.

1) General



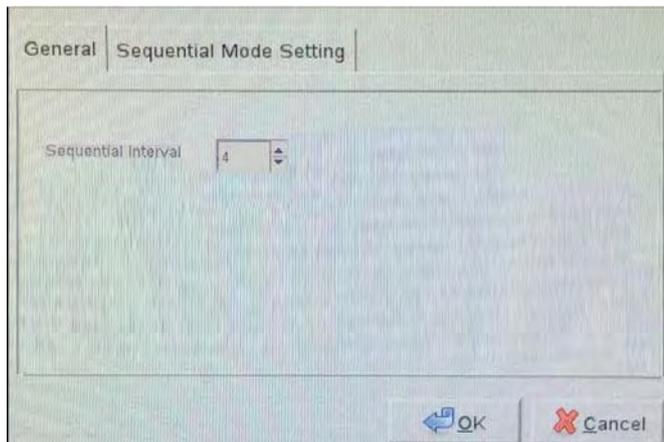
- **Resize all video sizes at the same time**
Only a right click on the video, users can set "all" video size either in original size or fit size.



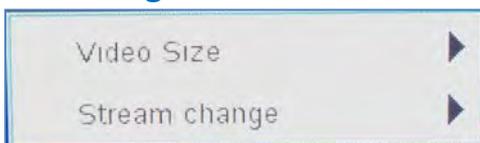


2) Sequential mode setting

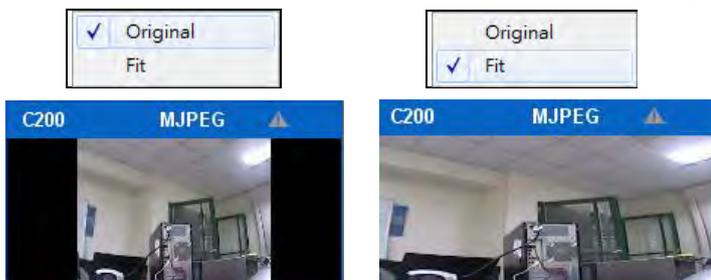
Click sequential interval to set the numbers of user-defined seconds for sequential mode.



3.2.3 Right Click Functions on Video Window



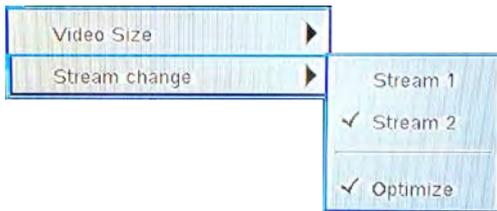
1. Video Size: Original or Fit



2. Streaming change:

Decoder allows users to setup the dual streaming configurations in camera parameter page if cameras support dual stream. It is suggested stream 1 is set for higher resolution and stream 2 for lower resolution, which helps users to choose the proper streaming in live view with intuitive control.

To switch the different streaming, users can select the channel in live view page and right click the mouse to show the list.



When “Optimize” is enable, streaming type is adjusted automatically in different display modes.

When “Optimize” is disabled, users can manually adjust streaming type, which will be memorized in different display modes.

3.2.4 Zooming with Mouse Scroll

In addition to digital zoom in/out button, users can use mouse scroll to prevent potential crisis in live-view monitoring.

⚠ Note: For PTZ cameras, zooming with mouse in live-view is adopted optical zoom in/out. If users would like to view more detailed image, please **use zooming with mouse scroll first** and then click **digital zoom in/out button**.

Please click on the video window and use mouse scroll to zoom in or zoom out image



To press and hold left mouse button, drag the image to the place that you would like to monitor.

DIGIEVER

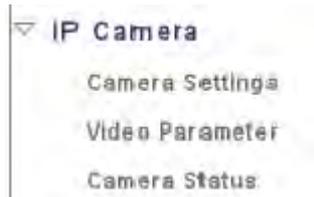


Chapter 4. Configuration

In configuration page, users can configure **Quick Configuration**, **IP Camera**, **Recording & Event**, **Network Management** and **System** from each drop-down menu.

⚠ Note: Decoder will automatically log out from configuration page after idle for 10 minutes.

4.1 IP Camera



4.1.1 Camera Settings

Please refer to Chapter2 - 2.3.5 Camera Settings.

4.1.2 Video Parameter

Please select “**Video Parameter**” from the drop-down menu of **IP Camera** to begin.



Video Parameter

Video Parameter

Camera No	1	Camera Name	Camera 1
Stream 1			
Video Format	<input type="radio"/> MPEG4 <input checked="" type="radio"/> H264 <input type="radio"/> MJPEG		
Resolution	1280x720		
Frame Rate	30fps		
Video Quality	<input type="radio"/> VBR 3 <input checked="" type="radio"/> 2000Kbps		

Stream 2			
Enabled	<input checked="" type="checkbox"/>		
Video Format	<input type="radio"/> MPEG4 <input checked="" type="radio"/> H264 <input type="radio"/> MJPEG		
Resolution	640x480		
Frame Rate	30fps		
Video Quality	<input checked="" type="radio"/> VBR 3 <input type="radio"/> 64Kbps		

Camera List

No.	Camera Name	IP Address	Port	Vendor	Model
1	Camera 1	192.168.1.110	80	Brickcom Corpor	Brickcom-50xA
2					
3					
4					

Decoder supports multi-stream for monitoring and recording. Users can modify camera's configuration such as video format, frame rate and resolution video quality in this page.

Note: Camera adding through NVR cannot be edited its parameter. Please go to NVR's configuration page to edit camera parameter.

There are two parts in this section: **Parameter** and **Camera List**. Please select a camera in **Camera List** first.

Camera List					
No.	Camera Name	IP Address	Port	Vendor	Model
1	Camera 1	192.168.1.110	80	Brickcom Corpor	Brickcom-50xA
2					
3					
4					

As you click one column turning into blue, please wait and the window below will appear to allow users configure multi-stream.

Video Parameter	
Video Parameter	
Camera No.	1 ▾ Camera Name Camera 1
Stream 1	
Video Format	<input type="radio"/> MPEG4 <input checked="" type="radio"/> H264 <input type="radio"/> MJPEG
Resolution	1280x720 ▾
Frame Rate	30fps ▾
Video Quality	<input type="radio"/> VBR 3 ▾ <input checked="" type="radio"/> 2000Kbps ▾
Stream 2	
Enabled	<input checked="" type="checkbox"/>
Video Format	<input type="radio"/> MPEG4 <input checked="" type="radio"/> H264 <input type="radio"/> MJPEG
Resolution	640x480 ▾
Frame Rate	30fps ▾
Video Quality	<input checked="" type="radio"/> VBR 3 ▾ <input type="radio"/> 64Kbps ▾

After loading camera's information, users can modify camera parameter, except this camera is be added by video wall decoder.

- Camera No.**
 Select a desired camera no. to add camera in decoder's camera list.
- Stream 1/ Stream 2 (Recording Stream)**
 Decide one stream as recording stream for video recording between stream 1 and stream 2 if cameras support dual streams.
 - ⚠ Note:** It is suggested stream 1 is set for higher resolution and stream 2 for lower resolution, which helps users to choose the proper streaming on live view with intuitive control.
 - ⚠ Note:** On liveview interface, decoder will display videos in stream 1 from 1-screen to 12-screen display mode. Decoder will display videos in stream 2 when display mode is above 16-screen.
- Video Format**
 Choose a video compression format for live view and recording: MPEG4, H.264 and MJPEG.
 - ⚠ Note:** Types of video format varies depending on the camera brands and models.

- **Frame Rate**
Select frame rate from drop-down list .Frame rate of IP camera will be influenced by the network surroundings.
- **Resolution**
Select resolution from drop-down list for your camera.
- **Video Quality**
Select either “VBR” (Variable bit rate) or “CBR” (Constant bit rate) to set the video quality.
- **Enable Audio Recording**
To make audio recording function enable or disable.
- **Enable Mobile Snapshot**
To make mobile snapshot function enable or disable.

4.1.3 Camera Status

Please select “Camera Status” from the drop-down menu of IP Camera to begin.

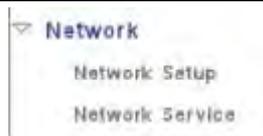


Camera Status					
Camera Status					
No.	Camera Name	IP Address	Conn. Status	Framerate(fps)	Bitrate(Kbps)
1	Camera 1	192.168.1.110	Connected	30 fps	2068.2 Kbps

Camera List shows connection status of recording.

Camera Status					
Camera Status					
No.	Camera Name	IP Address	Conn. Status	Framerate(fps)	Bitrate(Kbps)
1	Camera 1	192.168.1.110	Connected	30 fps	2068.2 Kbps
2					
3					
4					
5					
6					
7					
8					

4.2 Network Setup



4.2.1 Network Setup

Please select “**Network Setup**” from the drop-down menu of **Network** to begin.



This section explains how to configure network connection with decoder.

1. Information

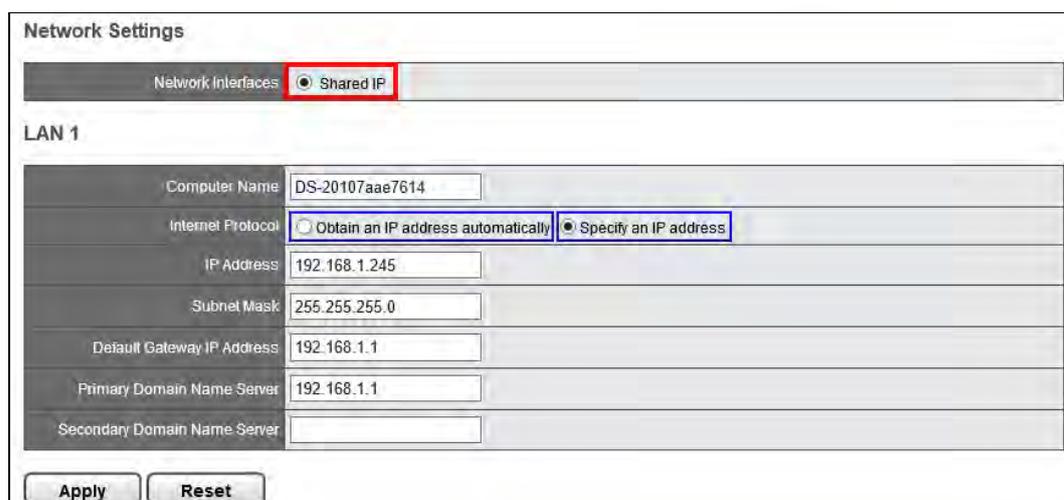


A screenshot of the 'Information' tab in the network configuration interface. It shows a table for 'LAN1' with the following configuration:

Parameter	Value
Computer Name	DS-bc5ff4ea2f3c
IP Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

Network information displays present network configuration including: **Computer Name**, **IP address**, **Subnet mask**, **Default Gateway**, **Primary and Secondary DNS**.

2. Setup



A screenshot of the 'Network Settings' page. The 'Network Interfaces' section has 'Shared IP' selected. The 'LAN 1' section shows the following configuration:

Computer Name	DS-20107aaa7614
Internet Protocol	<input type="radio"/> Obtain an IP address automatically <input checked="" type="radio"/> Specify an IP address
IP Address	192.168.1.245
Subnet Mask	255.255.255.0
Default Gateway IP Address	192.168.1.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	

Buttons for 'Apply' and 'Reset' are located at the bottom of the form.

Users can rename **Computer Name** and to assign **DHCP** or **Static IP**.

- **DHCP:** Obtain an available dynamic IP address assigned by a DHCP server. If this option is selected, system will automatically obtain an available dynamic IP address from the DHCP server when connecting to the LAN.
- **Static IP:** If no DHCP server exists in the networking environment, the IP address will be given as **192.168.1.245**. It should be sufficient in most network environments, and users can maintain the default IP address or alter IP address in this page. However, it's recommended to set different IP address of decoder if there is more than one decoder in the network.

3. DHCP Setup

Built-in DHCP server allows users to easily install IP surveillance systems without connecting another router providing network parameters. With built-in DHCP server, decoder can assign local IP addresses to multiple IP cameras in a local area network (LAN).

The screenshot shows the 'DHCP Setup' configuration page. At the top, there are tabs for 'Information', 'Setup', 'DHCP Setup', and 'Port Setup'. The 'DHCP Setup' tab is active. Below the tabs, the 'DHCP Setup' section contains a table with the following fields:

DHCP Server	<input type="radio"/> Enabled	<input checked="" type="radio"/> Disabled
IP Address	192.168.1.245	
Start IP	192.168.1.	<input type="text" value="(1-254)"/>
End IP	192.168.1.	<input type="text" value="(1-254)"/>

Below the table is an 'Apply' button.

⚠ Note: Built-in DHCP server is available when LAN is specified an IP address (static IP).

⚠ Note: Please do not connect to another device containing DHCP server function such as router when utilizing built-in DHCP server

4. Port Setup

Please set up transmission port to access decoder. Default port for decoder connection is **80**.

The screenshot shows the 'Port Setup' configuration page. At the top, there are tabs for 'Information', 'Setup', 'DHCP Setup', and 'Port Setup'. The 'Port Setup' tab is active. Below the tabs, the 'Settings' section contains a table with the following field:

Management Port	<input type="text" value="80"/>
-----------------	---------------------------------

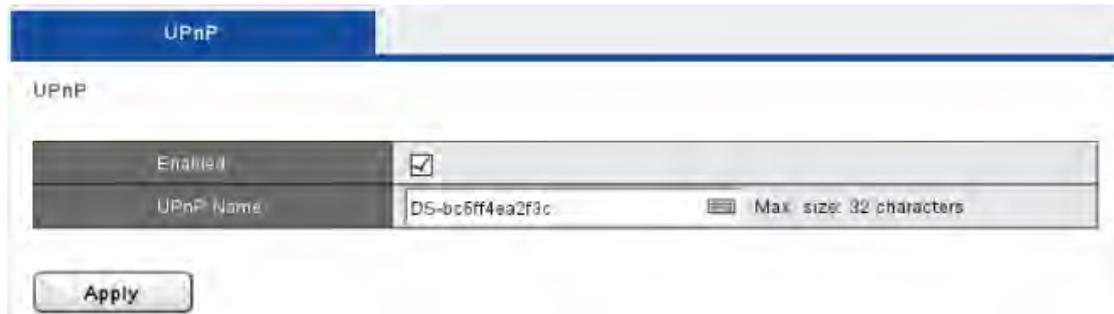
Below the table is a tip: 'Tip: Ports: 1234~1362 and some others ports are reserved by system'. Below the tip is an 'Apply' button.

4.2.2 Network Service

Please select “**Network Service**” from the drop-down menu of **Network** to begin.



1. UPnP



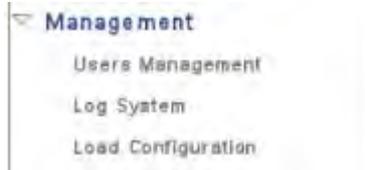
Enable or disable **UPnP** search.

Rename **UPnP**.

⚠️ Note: The maximum character limitation for UPnP Name is **32** characters.
Please click “**Apply**” to execute the settings.

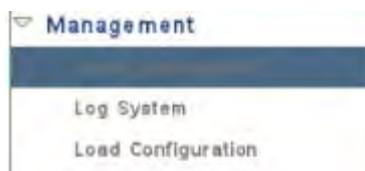
4.3 Management

In Management, users can easily create, modify and change users' liveview access. Also, users can read various log information through log system and quickly save or load configuration of decoder.



4.3.1 User Management

Select "User Management" from the drop-down menu of **Management** to begin.



Decoder can be accessed by multiple users simultaneously. Except the built-in Administrator account (user name "**admin**" and password "**admin**"). Administrator can create other Power User and User accounts. Administrator possesses the highest privilege, compare to Power User and User. And Power User and User can be given different privilege of live view and playback of different channels.

1. Create Users

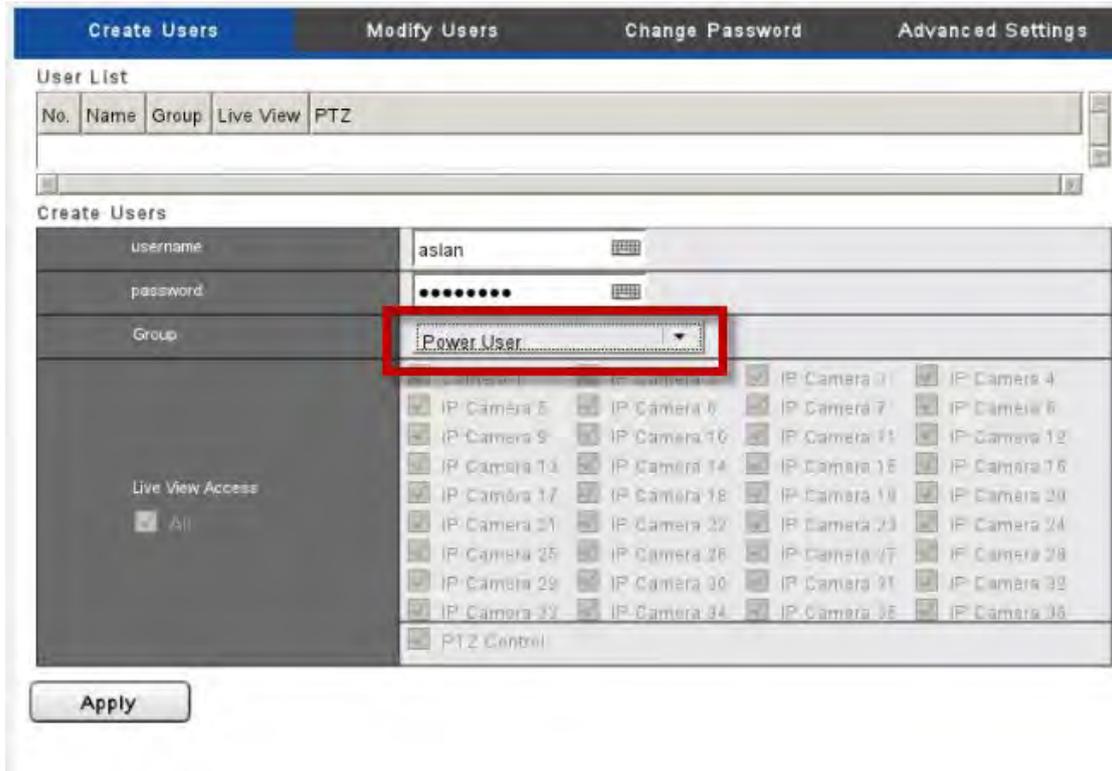
Please go to "Create Users" page



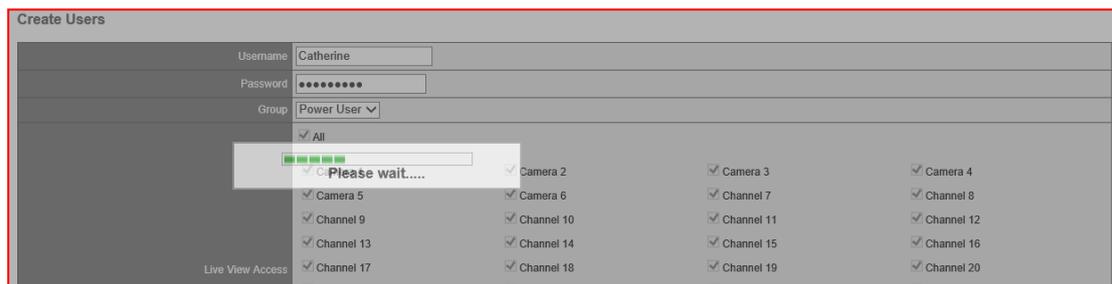
- **Power User**

Enter a username and password in "Create Users" page and select a group from the "Group" drop-down list to assign a new **power user**.

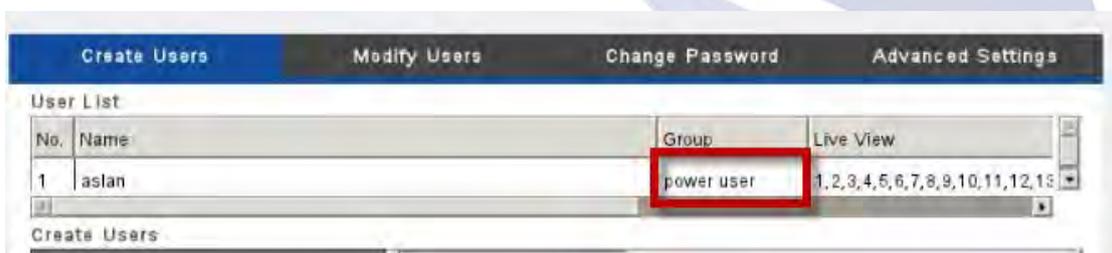
Live View Access and Playback Access are selected automatically for Power User.



Click **“Apply”** to add new Power User.

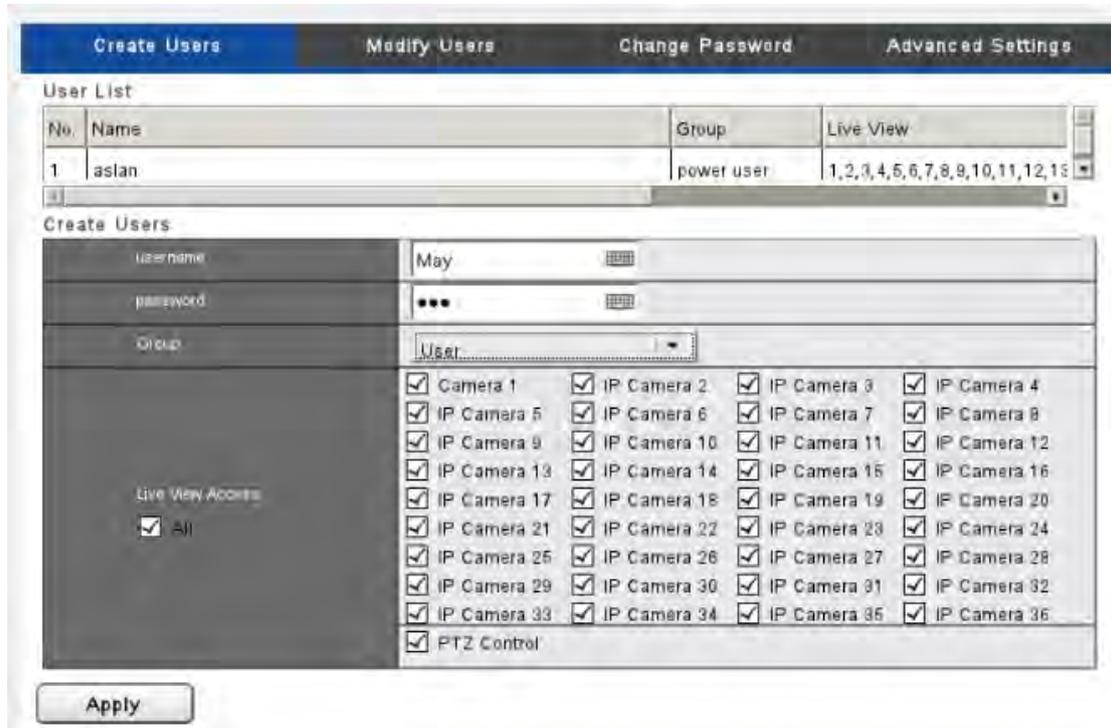


After the Power User is created, user list will display the information as below.

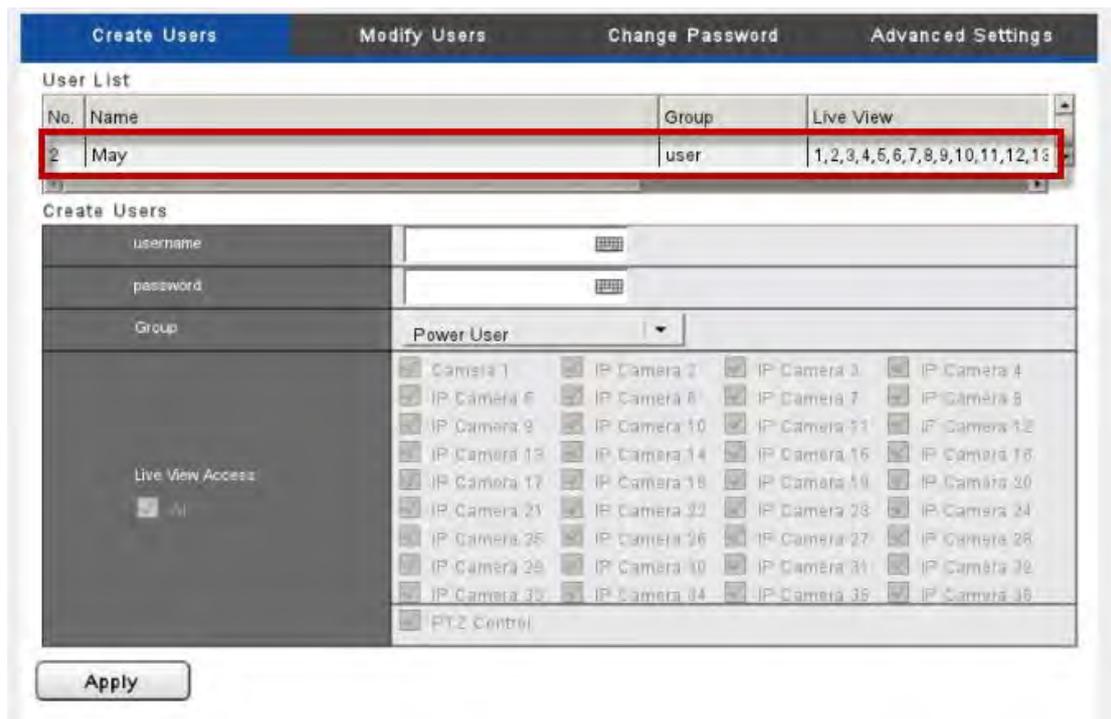


- **User**

Administrator can select a group from “**Group**” drop-down list to assign a new User. Please enter a username and password in “**User List.**” And select Live View Access and Playback Access for the new User.



After User is created, user list will display the information as below.



2. Modify Users

Please go to Modify User page.

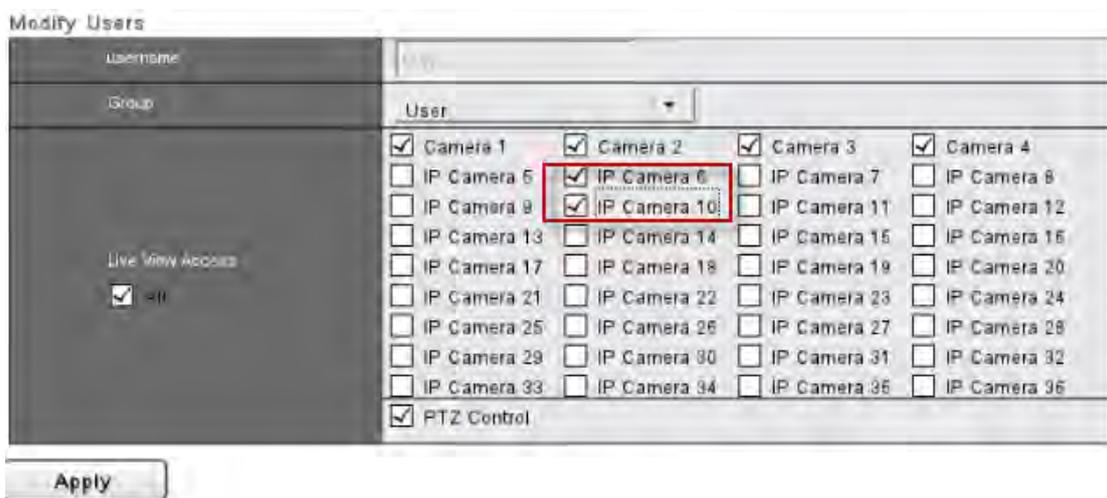
Select an account to modify the Power User or User.



The screenshot shows the 'Modify Users' tab selected in a navigation bar. Below it is a 'User List' table with the following data:

No.	Name	Group	Live View
1	aslan	power user	1,2,3,4,5,6,7,8,9,10,11,12,13
2	Mlay	user	1,2,3,4

The selected account will turn to blue and the page for modifying user will appear as below. You can change Live View Access and Playback Access. Please click **“Apply”** to proceed.



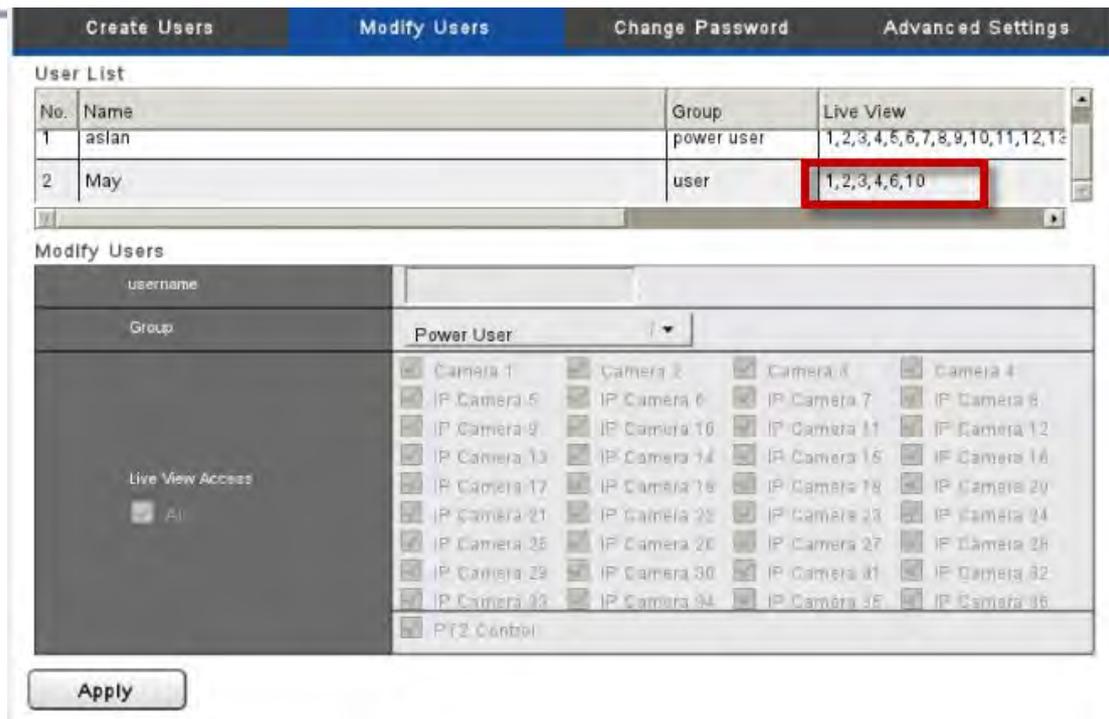
The screenshot shows the 'Modify Users' form for the user 'Mlay'. The form includes a 'User' dropdown menu, a grid of camera selection checkboxes, and a 'Live View Access' section. The 'Apply' button is visible at the bottom.

Group	User
<input checked="" type="checkbox"/> Camera 1	<input checked="" type="checkbox"/> Camera 2
<input checked="" type="checkbox"/> Camera 3	<input checked="" type="checkbox"/> Camera 4
<input type="checkbox"/> IP Camera 5	<input checked="" type="checkbox"/> IP Camera 6
<input type="checkbox"/> IP Camera 7	<input type="checkbox"/> IP Camera 8
<input type="checkbox"/> IP Camera 9	<input checked="" type="checkbox"/> IP Camera 10
<input type="checkbox"/> IP Camera 11	<input type="checkbox"/> IP Camera 12
<input type="checkbox"/> IP Camera 13	<input type="checkbox"/> IP Camera 14
<input type="checkbox"/> IP Camera 15	<input type="checkbox"/> IP Camera 16
<input type="checkbox"/> IP Camera 17	<input type="checkbox"/> IP Camera 18
<input type="checkbox"/> IP Camera 19	<input type="checkbox"/> IP Camera 20
<input type="checkbox"/> IP Camera 21	<input type="checkbox"/> IP Camera 22
<input type="checkbox"/> IP Camera 23	<input type="checkbox"/> IP Camera 24
<input type="checkbox"/> IP Camera 25	<input type="checkbox"/> IP Camera 26
<input type="checkbox"/> IP Camera 27	<input type="checkbox"/> IP Camera 28
<input type="checkbox"/> IP Camera 29	<input type="checkbox"/> IP Camera 30
<input type="checkbox"/> IP Camera 31	<input type="checkbox"/> IP Camera 32
<input type="checkbox"/> IP Camera 33	<input type="checkbox"/> IP Camera 34
<input type="checkbox"/> IP Camera 35	<input type="checkbox"/> IP Camera 36
<input checked="" type="checkbox"/> PTZ Control	

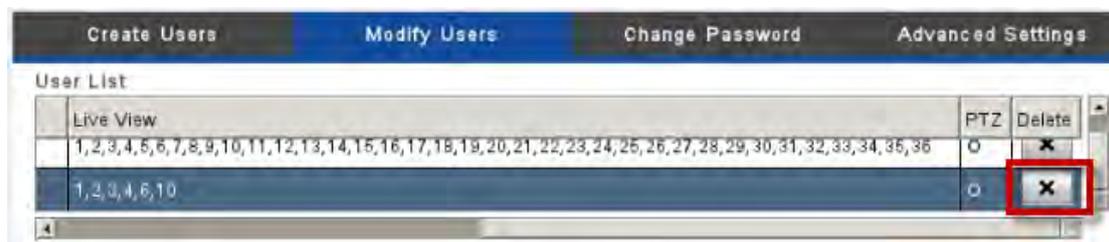
Live View Access: All

Apply

After User is modified, user list will display the renewed information.



To delete the user account, please click **“Delete”** from User List in Modify Users page.



3. Change Password

Each decoder comes with a built-in **“admin”** account with password **“admin”** for administrators. It’s highly recommended to change the password upon the initial login.

Select an account from **“User Name”** drop-down list to change password. Enter a new password in the **“New Password”** and enter it again in **“Retype Password.”** Click **“Apply,”** the password will be changed.

Create Users Modify Users **Change Password** Advanced Settings

Password Settings

username	admin
New Password	... (Max. size 16 characters)
Retype Password	...

Apply

4. Advanced Settings

In this page, users can set up **anonymous access on local display**, **maximum users for remote login** and **configuration page timeout period**.

- **Anonymous access on local display**

Anonymous user can only view live monitoring and playback page on local monitor with no access of decoder configuration. Users can enable or disable this function in this page. For more information of anonymous login, please refer to 3.1.1 Anonymous login.

Create Users Modify Users Change Password **Advanced Settings**

Advanced Settings

Local Display Settings: Enable Anonymous Access

Apply

4.3.2 Log System

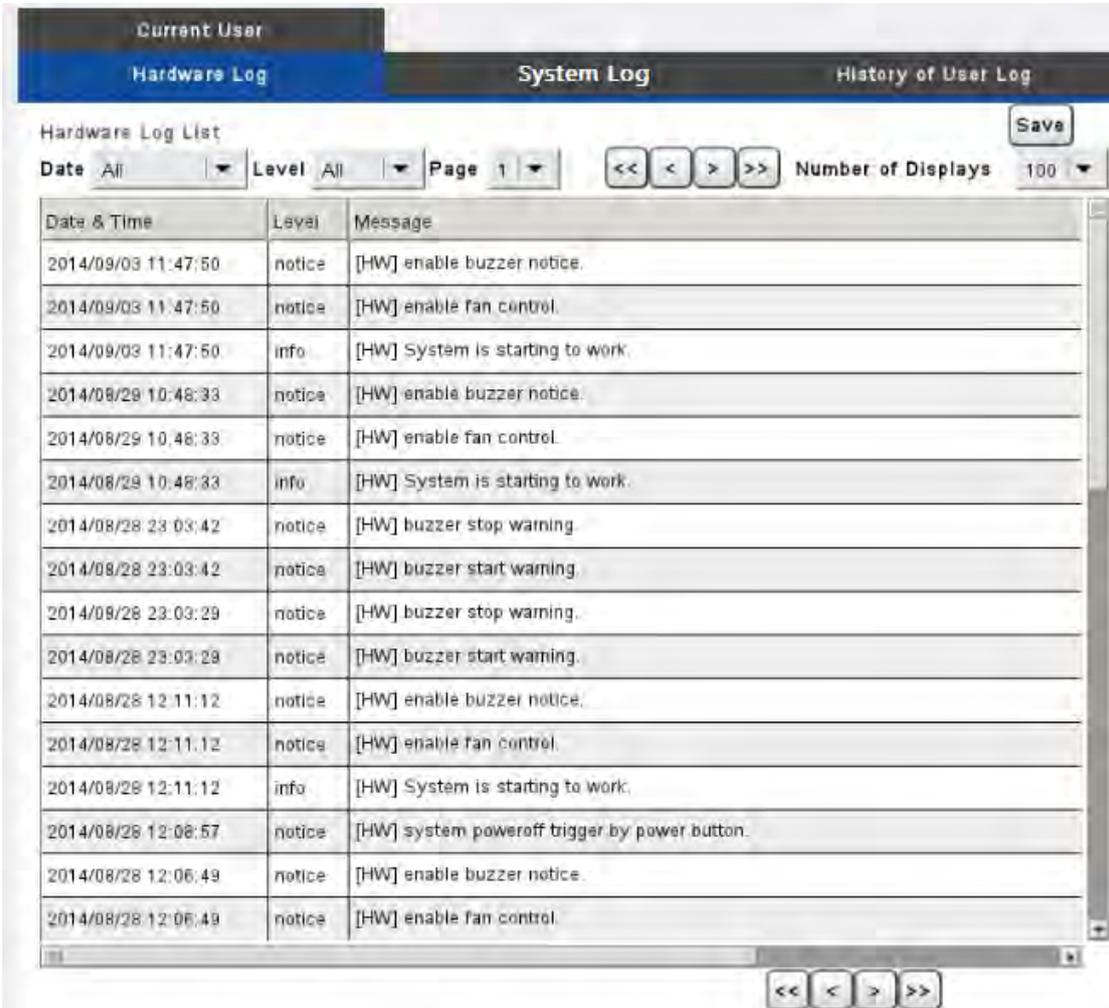
Please select "**Log System**" from the drop-down menu of **Management** to begin.



Log system provides four types of log record basic information for troubleshooting, including **Hardware Log**, **Event Log**, **Current User**, **Historical User Log**, and **File Access Log**.

- **Hardware Log**

The log information in Hardware Log includes **CPU, buzzer, fan, system, sensor** and **USB**.



The screenshot displays the 'Hardware Log List' interface. At the top, there are three tabs: 'Current User', 'Hardware Log' (selected), and 'System Log'. Below the tabs, there are navigation controls including a 'Save' button, dropdown menus for 'Date' (set to 'All') and 'Level' (set to 'All'), a 'Page' dropdown (set to '1'), and navigation buttons '<<', '<', '>', and '>>'. A 'Number of Displays' dropdown is set to '100'. The main content is a table with the following data:

Date & Time	Level	Message
2014/09/03 11:47:50	notice	[HW] enable buzzer notice.
2014/09/03 11:47:50	notice	[HW] enable fan control.
2014/09/03 11:47:50	info	[HW] System is starting to work.
2014/08/29 10:48:33	notice	[HW] enable buzzer notice.
2014/08/29 10:48:33	notice	[HW] enable fan control.
2014/08/29 10:48:33	info	[HW] System is starting to work.
2014/08/28 23:03:42	notice	[HW] buzzer stop warning.
2014/08/28 23:03:42	notice	[HW] buzzer start warning.
2014/08/28 23:03:29	notice	[HW] buzzer stop warning.
2014/08/28 23:03:29	notice	[HW] buzzer start warning.
2014/08/28 12:11:12	notice	[HW] enable buzzer notice.
2014/08/28 12:11:12	notice	[HW] enable fan control.
2014/08/28 12:11:12	info	[HW] System is starting to work.
2014/08/28 12:08:57	notice	[HW] system poweroff trigger by power button.
2014/08/28 12:06:49	notice	[HW] enable buzzer notice.
2014/08/28 12:06:49	notice	[HW] enable fan control.

- **System Log**

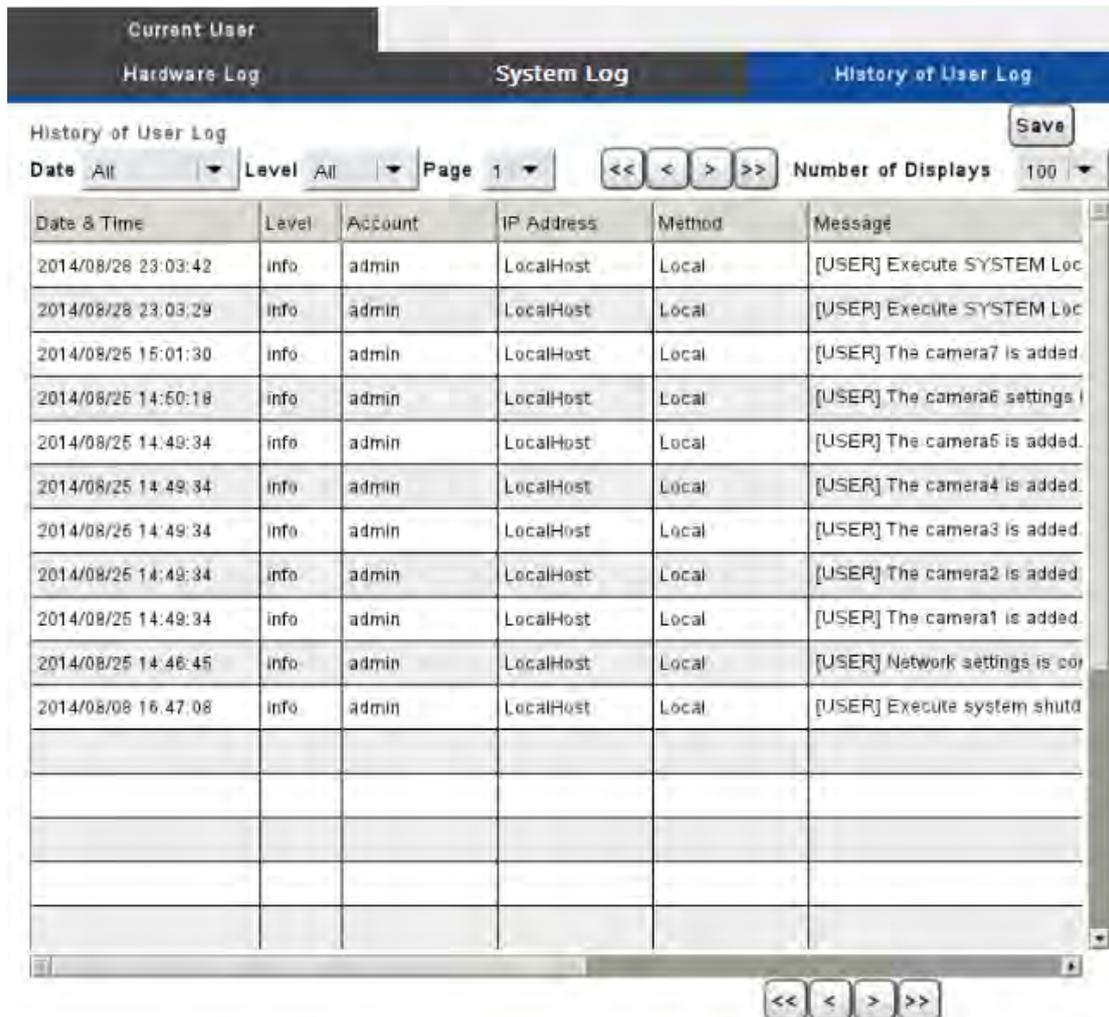
The log information in decoder Log includes **time zone, daylight, system, firmware upgrading, configuration IP.**

The screenshot shows a web interface for viewing system logs. At the top, there are three tabs: "Current User", "Hardware Log", and "System Log" (which is selected). To the right of "System Log" is "History of User Log". Below the tabs, there is a "NVR Log" section with a "Save" button. The interface includes filters for "Date" (set to "All"), "Level" (set to "All"), and "Page" (set to "1"). There are also navigation buttons for the log entries and a "Number of Displays" set to "100".

Date & Time	Level	Account	IP Address	Message
2014/09/03 11:47:51	info	SYSTEM	LocalHost	[NVR] Storage is not ready! Unable to handle .tmp
2014/09/03 11:47:50	notice	SYSTEM	LocalHost	[NVR] System had not been shutdown normally.
2014/08/29 10:48:34	info	SYSTEM	LocalHost	[NVR] Storage is not ready! Unable to handle .tmp
2014/08/29 10:48:33	notice	SYSTEM	LocalHost	[NVR] System had not been shutdown normally.
2014/08/28 12:11:12	info	SYSTEM	LocalHost	[NVR] System is ready for starting up.
2014/08/28 12:06:50	info	SYSTEM	LocalHost	[NVR] Storage is not ready! Unable to handle .tmp
2014/08/28 12:06:49	notice	SYSTEM	LocalHost	[NVR] System had not been shutdown normally.
2014/08/28 09:01:00	info	SYSTEM	LocalHost	[NVR] Storage is not ready! Unable to handle .tmp
2014/08/28 09:00:59	notice	SYSTEM	LocalHost	[NVR] System had not been shutdown normally.
2014/08/27 22:13:31	info	SYSTEM	LocalHost	[NVR] Storage is not ready! Unable to handle .tmp
2014/08/27 22:13:29	notice	SYSTEM	LocalHost	[NVR] System had not been shutdown normally.
2014/08/27 22:08:19	info	SYSTEM	LocalHost	[NVR] System is ready for starting up.
2014/08/26 14:10:10	info	SYSTEM	LocalHost	[NVR] Storage is not ready! Unable to handle .tmp
2014/08/25 14:10:09	notice	SYSTEM	LocalHost	[NVR] System had not been shutdown normally.
2014/08/25 05:50:39	info	SYSTEM	LocalHost	[NVR] The IP is been changed: <192.168.1.123>.
2014/08/26 13:50:36	info	SYSTEM	LocalHost	[NVR] System is ready for starting up.

- **Historical User Log**

The log information in Historical User Log records any user who has logged in the system. For example, “Execute detect,” “Motion detected,” “Account is created,” “Execute system shutdown,” etc.

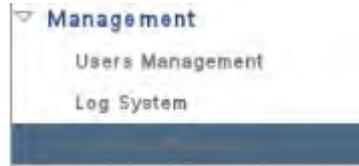


The screenshot displays the 'History of User Log' interface. At the top, there are tabs for 'Current User', 'Hardware Log', 'System Log', and 'History of User Log'. Below the tabs, there are filters for 'Date' (set to 'All'), 'Level' (set to 'All'), 'Page' (set to '1'), and 'Number of Displays' (set to '100'). A 'Save' button is located in the top right corner. The main area contains a table with the following columns: 'Date & Time', 'Level', 'Account', 'IP Address', 'Method', and 'Message'.

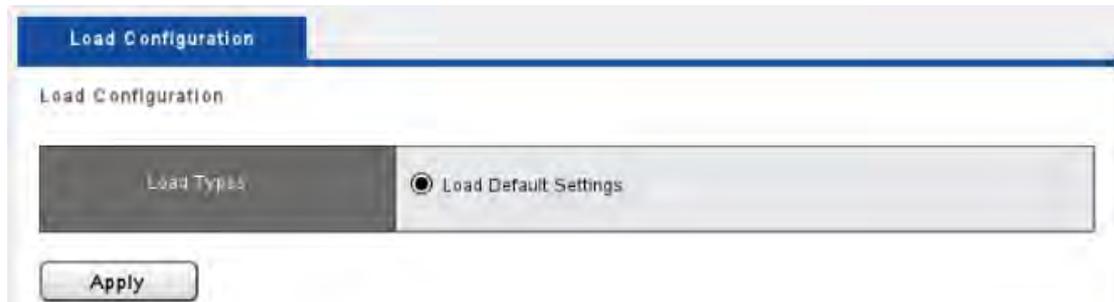
Date & Time	Level	Account	IP Address	Method	Message
2014/08/28 23:03:42	info	admin	LocalHost	Local	[USER] Execute SYSTEM Loc
2014/08/28 23:03:29	info	admin	LocalHost	Local	[USER] Execute SYSTEM Loc
2014/08/26 15:01:30	info	admin	LocalHost	Local	[USER] The camera7 is added.
2014/08/26 14:50:18	info	admin	LocalHost	Local	[USER] The camera6 settings i
2014/08/25 14:49:34	info	admin	LocalHost	Local	[USER] The camera5 is added.
2014/08/25 14:49:34	info	admin	LocalHost	Local	[USER] The camera4 is added.
2014/08/26 14:49:34	info	admin	LocalHost	Local	[USER] The camera3 is added.
2014/08/26 14:49:34	info	admin	LocalHost	Local	[USER] The camera2 is added.
2014/08/25 14:49:34	info	admin	LocalHost	Local	[USER] The camera1 is added.
2014/08/25 14:46:45	info	admin	LocalHost	Local	[USER] Network settings is cor
2014/08/08 16:47:08	info	admin	LocalHost	Local	[USER] Execute system shutd

4.3.3 Load Configuration

Please select “**Load Configuration**” from the drop-down menu of **Management** to begin.

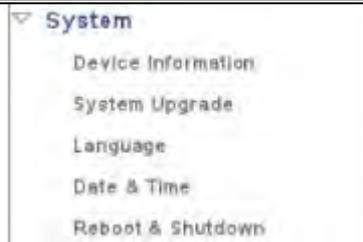


- **Load Default Configuration**



Once you select “**Load Default Settings**” and click “**Apply**,” configuration of **Camera Setting, Recording Settings, Event & Action Setting, E-Mail settings, and Server Settings** will reset to default.

4.4 System



4.4.1 Device Information

Please select "Device Information" from the drop-down menu of **System** to begin.



- **System Information**

System Information shows **Product Model, Firmware Version, MAC Address, Operating System, OS Version, CPU, Network Adapter** and **Locate**.

Locate

Click "**Locate**", the buzzer will be triggered for 3 seconds. It helps the user to locate the system.

A screenshot of the 'System Information' page in the Digiever interface. The page has two tabs: 'System Information' (active) and 'Enclosure Information'. Below the tabs is a table with system details and a 'Locate' button.

Information	
Product Model	VD-0036
Firmware version	1.0.1.1-rc5
MAC Address	bc:5f:f4:ea:2f:3c
Operating System	Embedded Linux
OS Version	Linux version 3.13.6
CPU	Intel(R) family
Network Adapter	Gigabit Ethernet Card 10/100/1000 Mbps
Locate	<input type="button" value="Locate"/>

- **Enclosure Information**

System Information		Enclosure Information	
Temperature Information			
CPU Temperature	32 °C		
System Temperature	36 °C		
Fan Speed			
CPU Fan	1032 RPM		
System Fan	2637 RPM		

Enclosure Information shows **CPU Temperature** and **System Fan Speed**.

⚠ Note: Temperature of operation environment for decoder is 0~40°C.

4.4.2 System Upgrade

Users can do firmware upgrade via **Local Display** (connect directly to a local monitor via HDMI or DVI connector).

⚠ Note: Please make sure the model and the firmware version are correct.

⚠ Note: Please **reboot** the system before upgrading to accelerate and to save your process time.

1. Upgrade via Local Display

- (1) Download latest firmware file from website and save the firmware file to a local computer.
- (2) Completely unzip the file, and save it to USB device. Please save the file to your USB device after downloading and unzipping the firmware.

⚠ Note: If you want to upgrade the system via USB device on local display UI, after downloading and unzipping the file, please rename the unzipped .bin file name to "update.bin" in the USB device, in order to have it recognized by the local system correctly.

⚠ Note: To recognize the USB device well, please **format the USB device to FAT32 file system** first, and make sure you delete all other files and keep only "update.bin")

Instructions to format a USB device to FAT32 file system:

- I. Click on the "My Computer" shortcut on the desktop of your computer
- II. Right-click the flash drive and choose the "Format" option
- III. Change the selection under "File System" to FAT32
- IV. Click the "Start" button to begin the formatting process

(3) Connect decoder to a monitor and insert USB device to the port of video wall decoder

To start local display upgrade, please connect decoder to a monitor (via HDMI or DVI) and insert USB device to the USB port.

(4) Power on the monitor and video wall decoder, and log in video wall decoder.

(5) Go to "**Configuration**" page, and then select "**System Upgrade**". When the interface shows device is 'ready', you can start upgrading the system.



(6) Once firmware upgrade finishes, video wall decoder will reboot itself.

Users could go to "**Device Information**" from the drop down list of "**System**" so as to double check firmware version.



4.4.3 Language

Please select “**Language**” from the drop-down menu of **System** to begin.



Decoder provides different languages for users. Users can configure the language as **AUTO** or other languages.



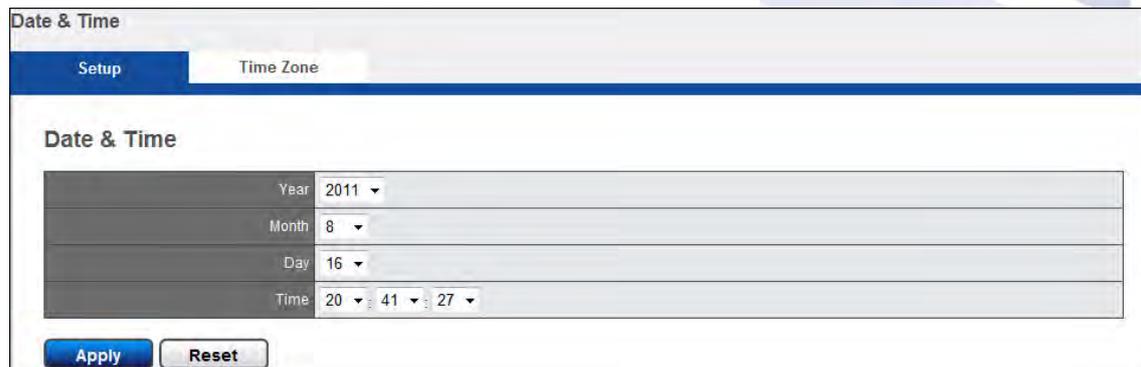
Please click “**Apply**” and the language will be changed.

4.4.4 Date & Time

Please select “**Date & Time**” from the drop-down menu of **System** to begin.



1. Set up



Select from the drop-down list and configure the time manually and the setting will be effective when you click “**Apply**”.

2. Time zone

Time Zone	
Time Zone:	(GMT+08:00)Taiwan
<input type="checkbox"/> Automatically adjust clock for Daylight Saving Time	
Synchronize with external NTP server:	time.stdtime.gov.tw <input type="checkbox"/> Automatically Sync
Monthly:	1 Day 0 0 (hr:mins)
Weekly:	Sunday 0 0 (hr:mins)
Daily:	0 0 (hr:mins)
Auto synchronize when time difference is more than:	30 seconds. (1-180)
NTP built-in NTP server:	192.168.1.245

Apply

Users can set the time and date according to the correct time zone and adjust clock for daylight saving changes for your preference.

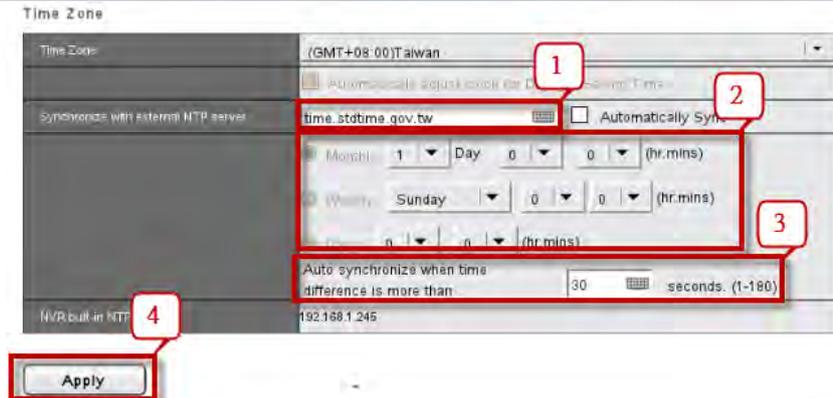
Please enter the hostname of a valid NTP server to synchronize with external NTP server.

Time Zone	
Time Zone:	(GMT+08:00)Taiwan
<input type="checkbox"/> Automatically adjust clock for Daylight Saving Time	
Synchronize with external NTP server:	time.stdtime.gov.tw <input type="checkbox"/> Automatically Sync
Monthly:	1 Day 0 0 (hr:mins)
Weekly:	Sunday 0 0 (hr:mins)
Daily:	0 0 (hr:mins)
Auto synchronize when time difference is more than:	30 seconds. (1-180)
NTP built-in NTP server:	192.168.1.245

Apply

Automatically sync

User can also decide when to automatically synchronize with external NTP server by selecting “Automatically Sync”. Based on users’ preference, system provide three selections to automatically synchronize with external NTP server: Monthly, Weekly or Daily.



- (1) Select “Automatically Sync”
- (2) Set up when to automatically synchronize with external NTP sever
- (3) Fill in the number to start auto synchronize when time difference is over user defined seconds
- (4) Click “Apply” button to save setting

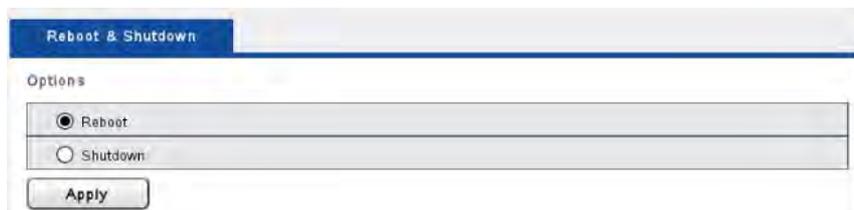
⚠ Note: The file recorded in overlapping time will be saved in “time overlap” after the system synchronized with NTP server

Built-in NTP server

To ensure the accuracy of time, decoder provides NTP server function for client device to synchronize the time clock. The built-in NTP server address follows decoder IP address.

4.4.5 Reboot & Shutdown

Please select “**Reboot & Shutdown**” from the drop-down menu of **System** to begin.



Click “**Reboot**” to restart the decoder.

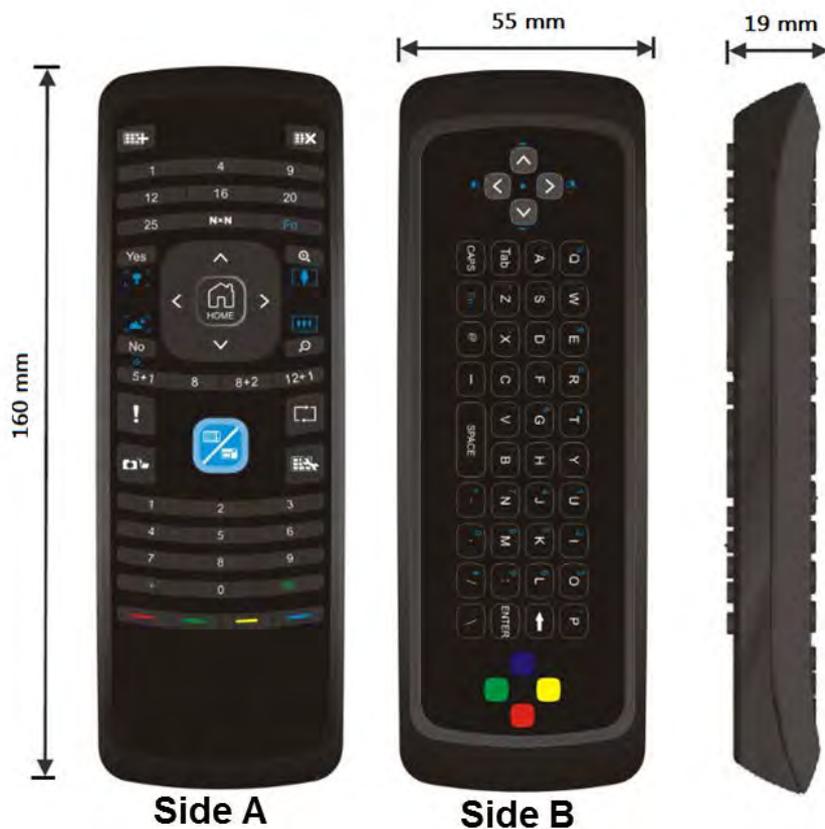
Click “**Shutdown**” to turn off the decoder.

Chapter 5. Remote Controller (optional)

Remote controller allows user to select various options such as: Display mode, PTZ control, Sequential, Log, Snapshot, Option, Liveview, Configuration page, Mouse & Keyboard.

5.1 Overview

- **Band** : 2.4 GHz
 - **Distance** : 10m
 - **Battery Types**: Alkaline batteries, nickel metal hydride batteries, nickel-cadmium batteries
- ⚠ **Note**: Please do not mix old and new batteries.



5.2 Connect to Video Wall Decoder

Step 1. Insert USB dongle:

Please insert controller's USB dongle to your decoder.



Step 2. Enter programming mode to connect decoder:

⚠ Note: To successfully connect to the decoder, please stay close to the decoder. The distance between USB dongle and remote controller should be **within 1 meter**.

Please simultaneously press  and  buttons for **3 seconds** to enter programming mode so as to connect decoder. The indicator will turn to blue light when you pressing them.

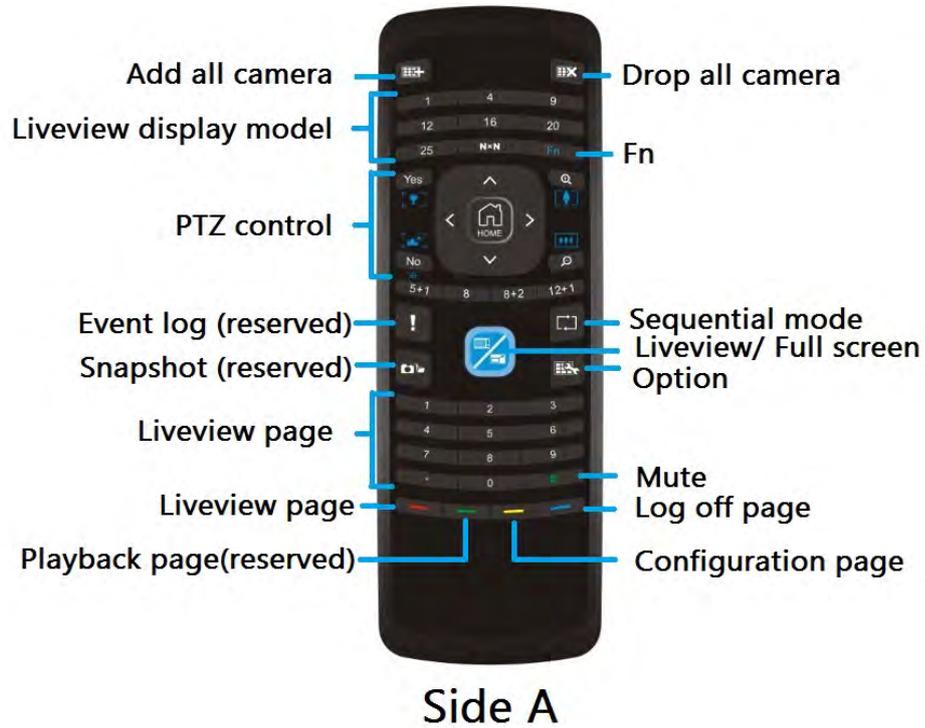


If the controller successfully connects to the decoder, the indicator will start blinking. Then, you can use the functions on both side A and side B.

- ⚠ Note:** If the indicator has no blinking after pressing the two buttons for 30 seconds, the indicator will automatically turn off. Please try step 2 again.
- ⚠ Note:** If you cannot use the function on both side A and side B, please try step 2 again.

5.3 Instruction of Liveview Interface (Side A)

Users can directly operate liveview interface on local display through remote controller. Please refer to below picture for more information.

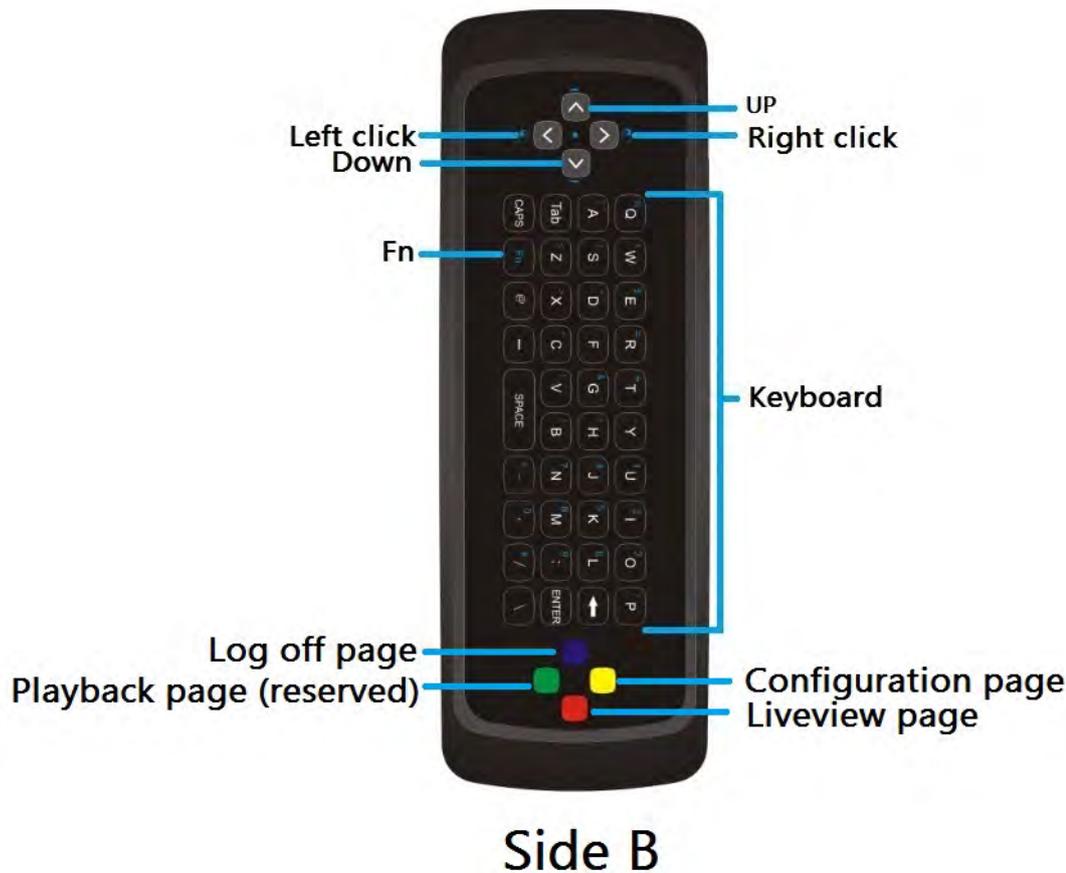


- **“FN”** button
On the side A, there are two functions of some buttons:
(1) white word
(2) blue word

Users are able to alter functions by pressing **“FN”** button. The default setting is the functions in white word.



5.4 Instruction of Mouse and Keyboard (Side B)



- Enable mouse function: put side B up, and press “Fn” button 
- Disable mouse function:
The mouse function will be disabled in below situations:
 1. Press “Fn” button  on sideB
 2. Turn to Side A for liveview operation
 3. No actions, including pressing the button and move the controller, for 10 seconds
- Mouse speed:
 - ◆ Speed types:
The mouse offers four speed types from 1(slow) to 4(fast) for your preference. The default speed is 3.
 - ◆ Change speed type: To change mouse speed, please simultaneously press “blue”  and “red”  button to next speed.

Appendix: Notice and Warning

Notice

* This equipment is for home use, and has acquired the electromagnetic conformity registration. So, it can be used not only in residential area, but also other areas.

* 이기기는가정용(B 급) 전자파적합기기로서주로가정에서사용하는것을목적으로하며, 모든지역에서사용할수있습니다.

Warning

* Risk of explosion if battery is replaced by an incorrect type. Please dispose of used batteries according to the instructions.