



Network Video Recorder User Manual

Milesight Technology Co.,Ltd.

V3.04





Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. The precaution measures are divided into “Warnings” and “Cautions”

Warnings: Serious injury or death may be caused if any of these warnings is neglected.

Cautions: Injury or equipment damage may be caused if any of these cautions are neglected.

	
Warnings: Please follow these safeguards to prevent injury or death.	Cautions: Please follow these safeguards to prevent potential injury or material damage.



Warnings

- ◆ This installation must be conducted by a qualified service person and should strictly comply with the electrical safety regulations of the local region
- ◆ To avoid risk of fire and electric shock, do keep the product away from rain and moisture
- ◆ Do not touch components such as heat sinks, power regulators, and processors, which may be hot
- ◆ Source with DC 12V or PoE
- ◆ Please make sure the plug is firmly inserted into the power socket
- ◆ When the product is installed on a wall or ceiling, the device should be firmly fixed
- ◆ If the product does not work properly, please contact your dealer. Never attempt to disassemble the camera by yourself



Cautions

- ◆ Make sure that the power supply voltage is correct before using the camera
- ◆ Do not store or install the device in extremely hot or cold temperatures, dusty or damp locations, and do not expose it to high electromagnetic radiation
- ◆ Only use components and parts recommended by manufacturer
- ◆ Do not drop the camera or subject it to physical shock
- ◆ To prevent heat accumulation, do not block air circulation around the camera
- ◆ Laser beams may damage image sensors. The surface of image sensors

should not be exposed to where a laser beam equipment is used

- ◆ Use a blower to remove dust from the lens cover
- ◆ Use a soft, dry cloth to clean the surface of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry
- ◆ Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes
- ◆ Save the package to ensure availability of shipping containers for future transportation

EU Conformity Statement



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information.

The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury(Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

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1. Product Introduction

1.1 Introduction

Milesight NVR Series are positioned at management and storage application of HD video data, and own multi-disc management systems, front end HD device management system, HD video analysis system and high-capacity system for video. It adopts the technology of high flow capacity data network transmitting&transmission, with multi-channel video decoding, to achieve functions like intelligent management, safe storage, HD decoding etc.

1.2 Product Key Functions

Basic Information

- Milesight NVR Series including MS-N1000, MS-N5000, MS-N7000, MS-N8000, MS-N1000-UT, can work with IP camera and connect with third party IP cameras which support ONVIF.

Monitoring

- Supports HDMI video output.
- For UHD HDMI display, maximum to 3840*2160 resolution.
- Supports 1/4/8/9/16 screen live view, channel sequence is adjustable.
- Supports live view fast menu operation.
- Supports live view group switch, manual switch and automatic patrol. The interval of automatic sequence is adjustable.
- Supports motion detection and video loss alert.
- Supports various PTZ protocols, PTZ preset, auto patrol and patrol pattern.
- Supports central zoom in by clicking the mouse at arbitrary area.
- Supports privacy mask.
- Supports OSD title and date configuration.

HDD Management

- Supports S.M.A.R.T technology.

Recording/Snapshot and Playback

- Support holiday schedule.
- Support recycle and non-recycle recording mode.
- Support multiple recording types, including timing, alarm, motion detection, motion or alarm, motion and alarm, etc.

- Support 12 recording time periods with separate recording types.
- Support pre-record and post-record time for motion detection or snapshot, alarm recording or snapshot, motion and alarm recording, motion or alarm recording. And supports pre-record for manual and timing.
- Supports local recording/snapshot.
- Supports digital zoom function at arbitrary area in playback.
- Supports video data playback.
- Supports pause, fast play, slow play, skip forward and skip backward when playback, locating in progress bar by dragging the mouse.
- Supports snapshot manually.

Backup

- Supports USB port backup.
- Supports FAT32 format backup.
- Supports backup device maintenance and management.

Alarm & Exception

- Supports video loss alarm.
- Supports motion detect configure and alarm.
- Supports Network Disconnected/HDD Full/Record Fail/HDD Error alarms.
- Supports various alarm response such as audible warning, sending email, recording and on/off relay out.

Other Functions

- Supports multi-level user management, administrator can create multiple users with access rights.
- Supports manual triggering and clearing of alarms.
- Supports operating and configuring information import/export.

Network

- Supports unicast and multicast, support TCP, UDP and RTP for unicast.
- Supports remote search, playback and download of video files.
- Supports remote acquiring and configuring of parameters.
- support remote import and export of device parameters.
- Supports P2P remote access.
- Supports remote acquiring of device status, system log and alarm status.
- Supports remote operate system maintenance by format of hard disk, upgrade and reboot etc.
- Supports upload alarm and exceptions to remote host.
- Supports remote manual start or stop of recording.

- Supports remote manual start or stop of alarm output.
- Supports remote BMP image capturing.
- Supports remote PTZ control.
- Built-in WEB Server.

Model			MS-N1004 / 1008		MS-N5008	MS-N5016	MS-N7016	MS-N8016 / 8032	
Video/Audio Input	Network Video Input		4 / 8		8	16	16	16 / 32	
	Max. Stream		20Mbps / 40Mbps		40Mbps	80Mbps	80Mbps	80Mbps / 96Mbps	
	Network Audio Input		4 / 8		8	16	16	16 / 32	
	Analog Audio Input		—		—	1*3.5 mm connector	1*RCA	1*RCA	
Video/Audio Output	HDMI Output		1		1	1	1	1	
	VGA Output		—		—	—	1	1	
	Audio Output		—		—	1*3.5 mm connector	1*RCA	1*RCA	
	Synchronous Preview / Synchronous Playback	30fps@D1 (704*576)	4 / 8		8	16	16	16 / 16	
		30fps@720P (1280*720)	4 / 4		4	16	16	16 / 16	
		30fps@1080P (1920*1080)	2 / 2		2	6	6	6 / 6	
		20fps@3MP (2048*1536)	1 / 1		1	2	3	3 / 3	
		8fps@5MP (2560*1920)	/		/	/	3	3 / 3	
Video/Audio Compression	Video Compression		H.264						
	Recording Resolution		3MP/1080P/UXGA/720P/VGA/D1/CIF/QCIF				5MP/3MP/1080P/UXGA/720P/VGA/D1/CIF/QCIF		
	Max Synchronous Recording		4*3MP	8*3MP		16*3MP	16*5MP		32*5MP
Storage	SATA		2 SATA 2.5“ HDD Max 4TB with 2TB each		2 SATA 3.5” HDD Max 8TB with 4TB each		4 SATA 3.5” HDD Max 16TB with 4TB each	8 SATA 3.5” HDD Max 32TB with 4TB each	
	External Storage		—		—		1 eSATA	1 eSATA	
	Capacity		Up to 2TB each HDD		Up to 4TB for each HDD				
Interface	USB		2*USB 2.0				4*USB 2.0		
	Alarm Input/Output		—		—	4 input/2 output	16 input/4 output	16 input/4 output	

2. Hardware

2.1 Panel Buttons and Lights Instructions

(1) MS-N1000 Series: MS-N1004/MS-N1008



(2) MS-N5000 Series: MS-N5008/MS-N5016



NO.	Item	Description
1	Power	Power NVR on/off.
2	USB Ports	USB ports for additional devices such as USB mouse, keyboard and USB flash drive.
3	IR Receiver	Receiver for IR signal.

(3) MS-N7000 Series: MS-N7016

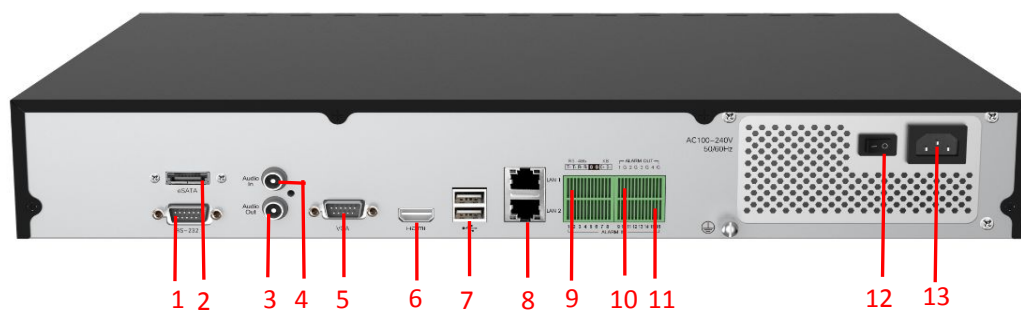


NO.	Item	Description
1	Power	Power NVR on/off.
2	USB Ports	USB ports for additional devices such as USB mouse, keyboard and USB flash drive.

(4) MS-N8000 Series: MS-N8016



NO.	Item	Description
1	Power	Power NVR on/off.
2	USB Ports	USB ports for additional devices such as USB mouse, keyboard and USB flash drive

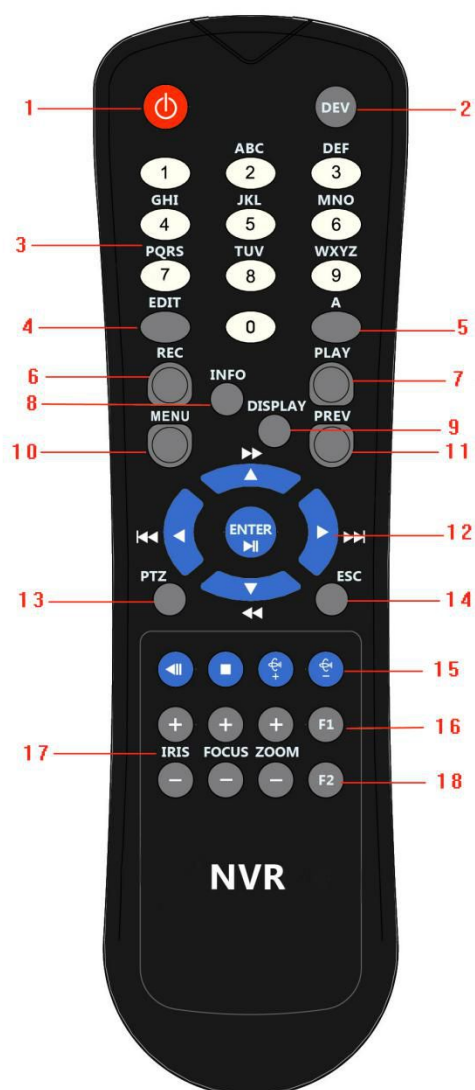


NO.	Item	Description
1	RS-232	Interface for console.
2	eSATA	Interface for external HDD.
3	Audio In	RCA connector for audio input.
4	Audio Out	RCA connector for audio output synchronized with video output.
5	VGA	DB9 connector for VGA output with local video output and menu displayed.
6	HDMI	HDMI video output connector.
7	USB Ports	USB ports for additional devices such as USB mouse, keyboard and USB flash drive.
8	RJ45 Port	Interface for Ethernet.
9	RS-485 Port	Interface for RS-485 devices. T+, T- pin connects to PTZ.
10	Alarm Out	Interface for alarm out (4 channels).
11	Alarm In	Interface for alarm input (16 channels).
12	Power	Power NVR on/off.
13	AC 100-240V	AC 100-240V 50/60Hz power supply.

2.2 Using a USB Mouse

Item	Click	Description
Left Button	Single- click	Live view: select the channel and show the toolbar of live view. Menu: select and confirm.
	Double-click	Switch between single screen to multi-screen when in live view mode and playback mode.
	Click and drag	(1) Control rotation direction in PTZ mode. (2) Set the target area in tamper-proof, motion detection and privacy mask alarm settings. (3) Drag the digital zoom area. (4) Drag the channel and the time scroll bar.
Right Button	Single-click	Live view: shows pop-up menu. Menu: exit and go to previous menu.
Scroll-wheel	Scroll up	Scroll up the page.
	Scroll down	Scroll down the page.

2.4 IR Remote Controller



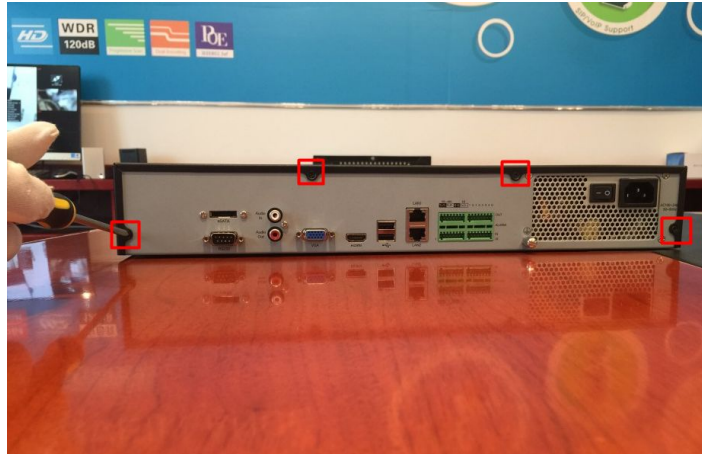
F-2.4.1

NO	Name	Description
1	Power	Power on/off the NVR
2	DEV	Enables/disables remote control
3	ABC/123	(1)Alphanumeric buttons are used to switch the corresponding channel in live view or PTZ Control mode. (2)Alphanumeric buttons are used to input numbers and characters in edit mode.
4	EDIT	(1)Used to enter the edit status. (2)Delete the character in front of the cursor. (3) Open up the IRIS of the camera when in PTZ status.
5	A	(1)Switch the input methods including figure, letters and symbols. (2) Auto scan when in PTZ control.
6	REC	(1)The REC/SHOT button is used to enter recording configuration interface. (2)When controlling a PTZ, press the REC/SHOT Button to invoke preset positions. (3)Open and close sound system when playback.
7	PLAY	(1)Enter the playback interface. (2)Auto scan when in PTZ control.
8	INFO	Zoom control when in PTZ control.
9	DISPLAY	(1)Switch between main and spot output. (2)To zoom the camera in PTZ mode.
10	MENU	(1)Enter the main menu interface. (2)Display/cover playback toolbar when in playback status. (3)Open/close the sound of front panel by pressing and holding more than 3 seconds.
11	PREV	(1)Used to switch between single screen and multiscreen mode. (2)Adjust the focus in PTZ mode.
12	DIRECTION/ ENTER	(1)Move the active selection in a menu, select menu items setting. (2)Up/down button stands for single frame fast forward/playback, left/right button stands for speed up/slow down the video. (3)Switch live view channel or screen in live view mode. (4)Move the PTZ when in PTZ control.
13	PTZ	(1)Confirm selection in menu modes. (2)Switch to tick checkbox and ON/OFF. (3)In playback mode, can be used to play or pause the video. (4)In cruise mode, press to pause/restart the cruise.
14	ESC	Same as ESC button on front panel
15	RESERVED	Reserve the settings
16	F1	(1)Select all items on the list. (2)Control light status when in PTZ control. (3)Switch to playback or sequence play in playback status
17	PTZ CONTROL	To adjust the iris, focus and zoom of a PTZ camera.
18	F2	The F2 button is used to switch menu attribute page.

2.5 Hard Disk Installation

2.5.1 MS-N7000 series Hard Disk Installation

Step1. Unscrew the back and both sides' screws to open the upper lid.



F-2.5.1

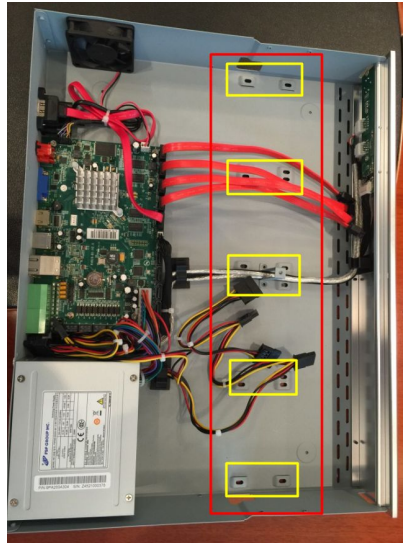


F-2.5.2

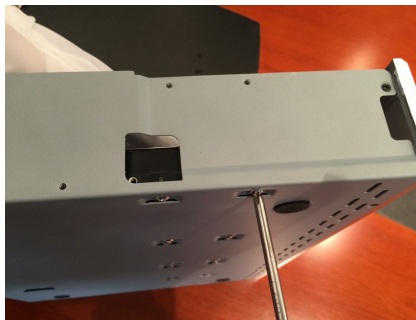


F-2.5.3

Step2. Install the hard disks into NVR with screws shown in below pictures.(SATA Slots of hard disk should be toward inside NVR.)



F-2.5.4

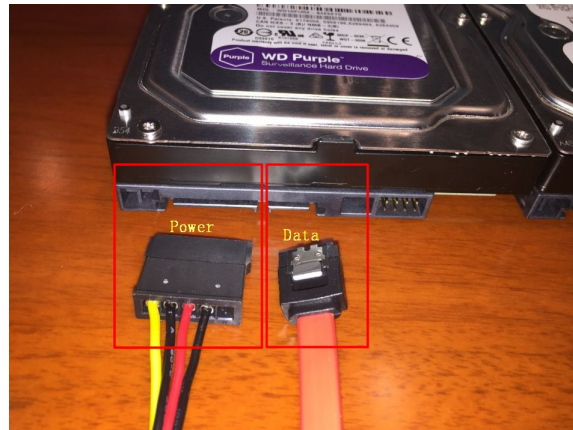


F-2.5.5

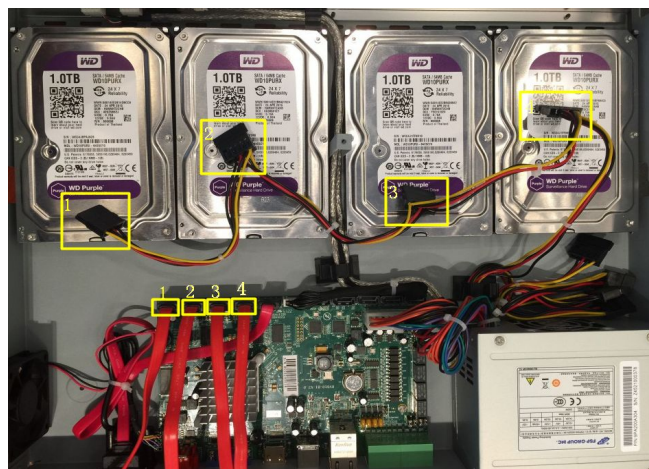


F-2.5.6

Step3. Join the power and data connectors to corresponding hard disk.



F-2.5.7



F-2.5.8



F-2.5.9

2.5.2 MS-N8000 series Hard Disk Installation

Step1. Unscrew the back and both sides' screws to open the upper lid.



F-2.5.10



F-2.5.11



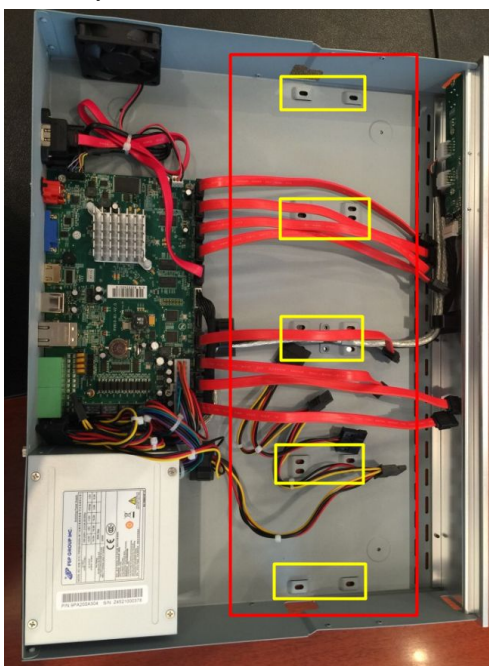
F-2.5.12

Step2. Uninstall the upper hard disk panel.



F-2.5.13

Step3. Install the hard disks into NVR with screws shown in below pictures.(SATA slots of hard disks should be toward inside NVR)



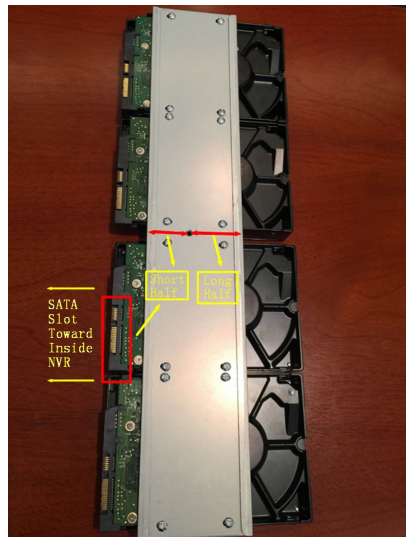
F-2.5.14



F-2.5.15



F-2.5.16



F-2.5.17

Note:

The SATA slots are in SHORT HALF side and the SATA slot toward inside NVR.

Step4. Join the power connectors to corresponding hard disks.(Install lower hard disk panel before upper one)



F-2.5.18



F-2.5.19

Step5. Join the data connectors to corresponding hard disk.(Check the connection by below sequence)



F-2.5.20

Note:

The data connector sequence of MS-N7000 series is different from MS-N8000 series'.

3. Local Operation

3.1 Wizard Setting

By default, the Setup Wizard will start once the NVR has loaded. The Setup Wizard will guide you to complete important settings to make sure the device function well. You can choose if the Setup Wizard starts or not every time when the device powered.

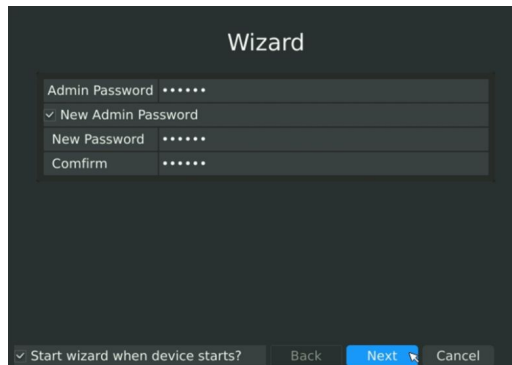
Please complete the configuration as following:

Step1. Input the user name and password;

If you want to modify the admin password, input the new password.

Note:

1. If the NVR firmware version out of the factory is xx.7.0.6 or above, the default user name is "admin" and the default password is "ms1234";
2. If the NVR firmware is upgraded to xx.7.0.6 or above from a lower version, the default password will turn to "ms1234" after a reset, or it will keep the old default password "123456";
3. If the NVR firmware version is below xx.7.0.6, the default user name is "admin" and the default password is "123465".



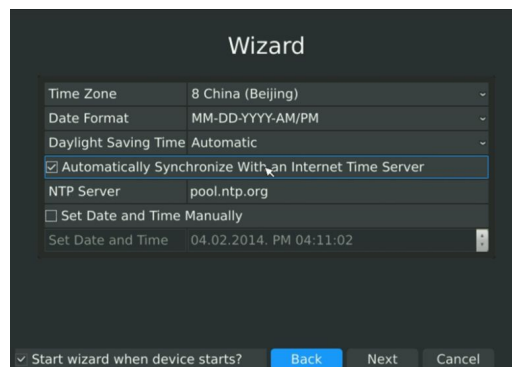
The screenshot shows the 'Wizard' interface with the following fields and options:

- Admin Password: *****
- ☒ New Admin Password
- New Password: *****
- Confirm: *****
- ☒ Start wizard when device starts?
- Buttons: Back, Next (highlighted), Cancel

F-3.1.1

Step2. Date and time setting

Select the Time Zone and Date Format or you can set date and time manually.



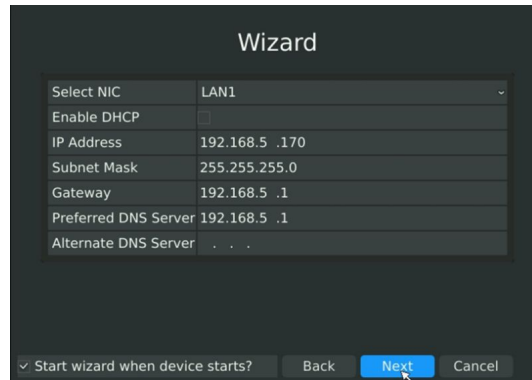
The screenshot shows the 'Wizard' interface with the following fields and options:

- Time Zone: 8 China (Beijing)
- Date Format: MM-DD-YYYY-AM/PM
- Daylight Saving Time: Automatic
- ☒ Automatically Synchronize With an Internet Time Server
- NTP Server: pool.ntp.org
- ☐ Set Date and Time Manually
- Set Date and Time: 04.02.2014. PM 04:11:02
- ☒ Start wizard when device starts?
- Buttons: Back (highlighted), Next, Cancel

F-3.1.2

Step3. Network setting

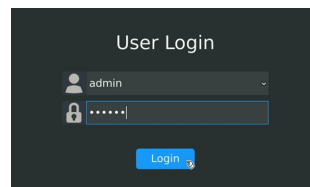
Input the IP Address, Subnet Mask, Gate Way and Preferred DNS Server.



F-3.1.3

Step4. Login

Input the user name and password.



F-3.1.4

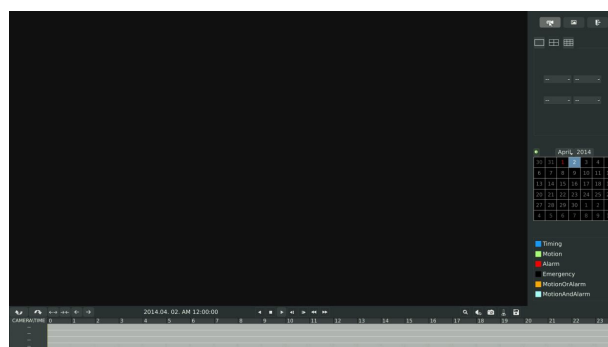
3.2 Playback

To play and backup the recorded files in specified time period.

3.2.1 Video Playback

It can support playback according to recorded time. Play recorded files in specified time period; synchronous playback of multi-channels is supported.

Step1. Enter Video Playback Interface shown in F-3.2.1 by clicking Main menu→Playback→ 




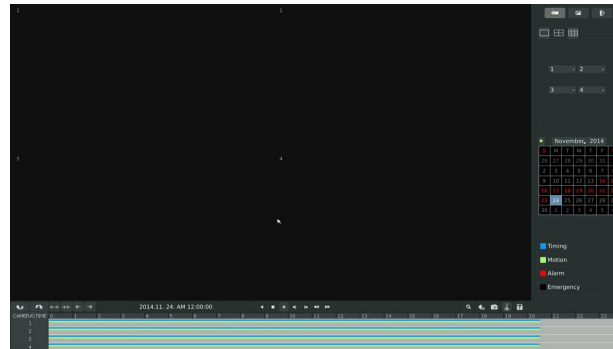
F-3.2.1

Step2. Select a desired channel and date

Select playback layout and channel. Click the date in red when there are recorded files of the

selected channels, the record type with recording data will be show as below, and then click

 to playback.

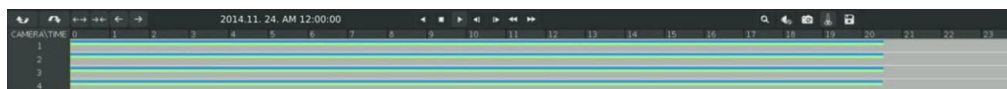


F-3.2.2

Note:

1. The day in red has recording files; please select the date in red to playback.
2. 16 channels can be selected to playback synchronously.























Video Playback Tool Bar Description



The tool bar can display multi-event record. It shows that in this record period what kind of event has happened. The symbolic meaning of each color is shown below:


Blue—Timing Green --- Motion
Red --- Alarm Black --- Emergency

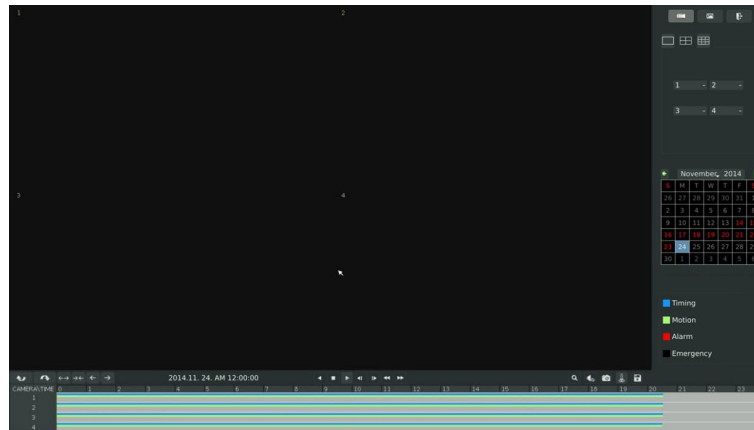
And take this bar above for example, it means in this recording period there are motion and timing event which have triggered.

Button	Description	Button	Description	Button	Description	Button	Description
	Rewind		Stop		Play		Pause
	Reverse Step		Forward Step		Fast Backward		Fast Forward
	Previous 4 Cams		Next 4 Cams		Timeline Backward		Timeline Forward
	Timeline Zoom In		Timeline Zoom Out		Timeline		Playback Position
	Timeline Cutting		Timeline Cut Off		Audio On		Audio Off
	Snapshot		Backup				

3.2.2 Video Files Backup

Regular recorded files can be backed up by various devices, such as USB flash drives (USB flash disk, USB HDD, USB writer), eSATA etc.

Step1. Enter video playback interface by clicking Main menu→Playback→

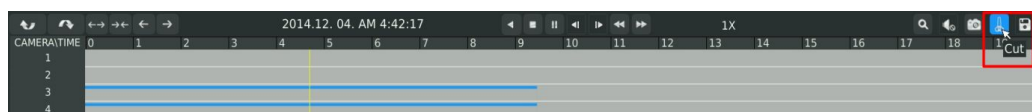


F-3.2.3

Step2. Select Recorded files for Backup

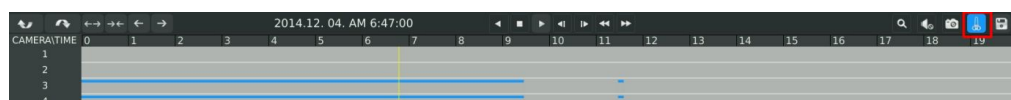
Select the channel and date you want to backup, then select the start time at time line and click

, it will change into  which means cut begins.



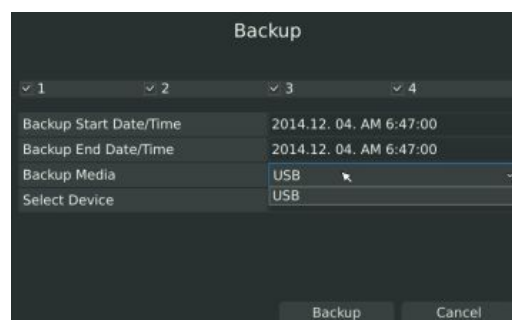
F-3.2.4

Select the end time at time line and click , it will change into , which means cut ends.



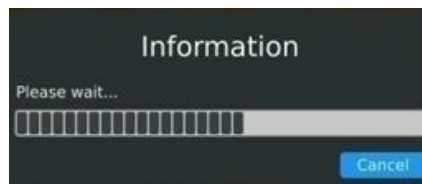
F-3.2.5

Step3. Click  enters to backup interface, select Backup media and click [Backup].



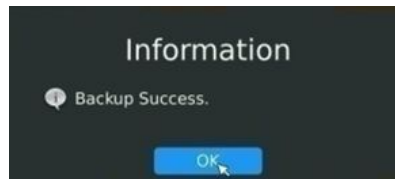
F-3.2.6

Step4. The pop-up window will prompt: Please wait...



F-3.2.7


Step5. When all backup files have been exported, 'Backup Success' will be prompted.



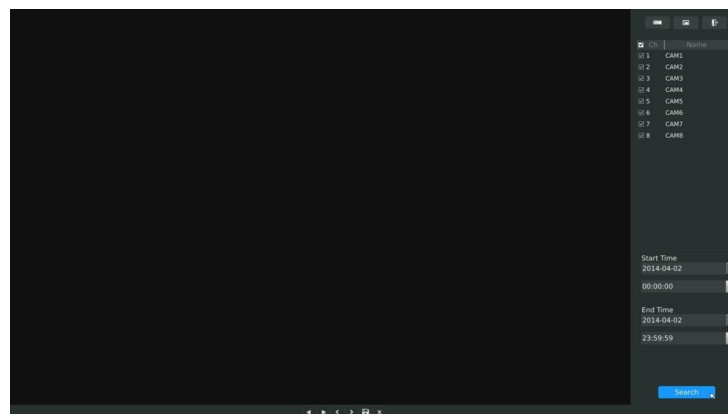
F-3.2.8

3.2.3 Picture Playback

Search and look for the snapshot files saved in HDD.



Step1. Enter Picture Playback Interface by clicking Main menu→Playback→

Select a desired channel, start time and end time, click [Search]



F-3.2.9

Step2. Enter Picture Info List and look up the pictures.






Click  to play the desired pictures, or click  to auto play the picture.



F-3.2.10

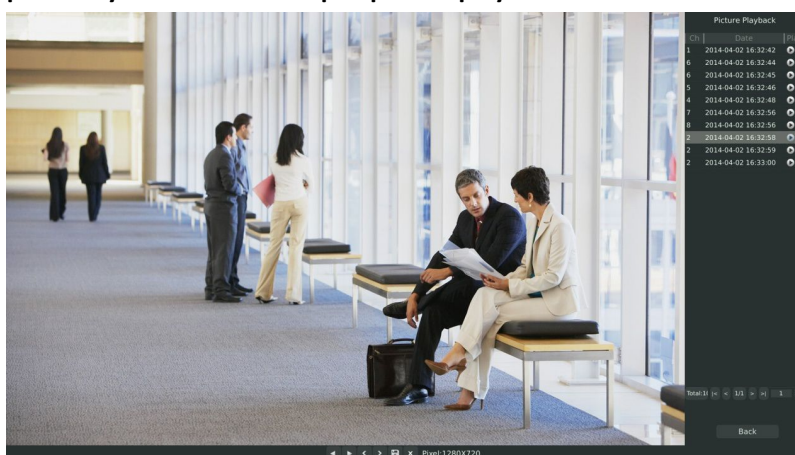
Picture Playback Tool Bar Description



Button	Description	Button	Description	Button	Description	Button	Description
	Backward Play		Play		Previous Picture		Next Picture
	Backup pictures		Close				

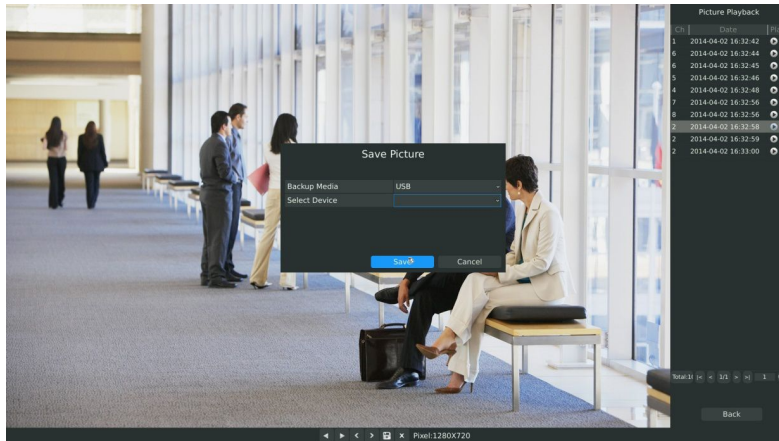
3.2.4 Picture Files Backup

Step1. Select pictures you want to backup in picture playback interface.



F-3.2.11

Step2. Select backup media and click  to save picture.



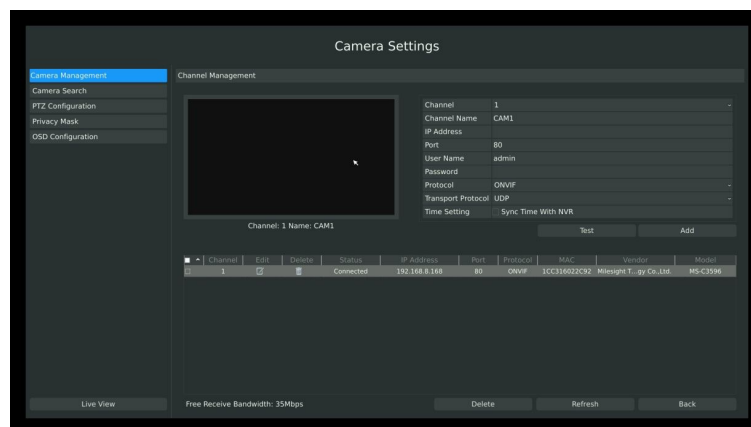
F-3.2.12

3.3 Camera Settings

Before configuration, please ensure that the IP device is connected to the same network as your NVR and that the network setting for your NVR is properly setup.

3.3.1 Camera Management

Step1. Enter camera management interface by clicking main menu → Camera → Camera Management to enter camera management interface.

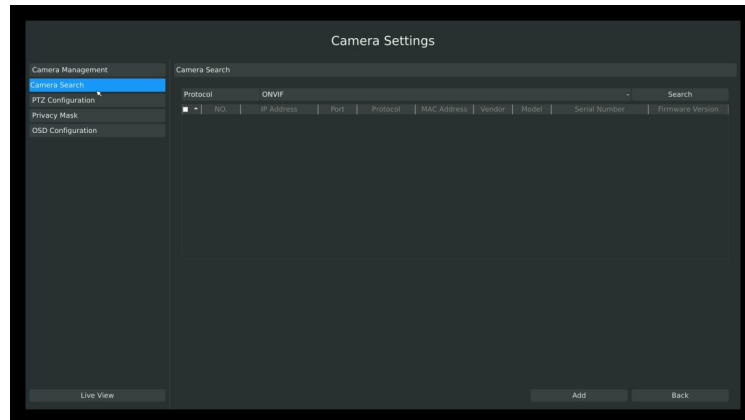


F-3.3.1

Step2. Add IP Channel

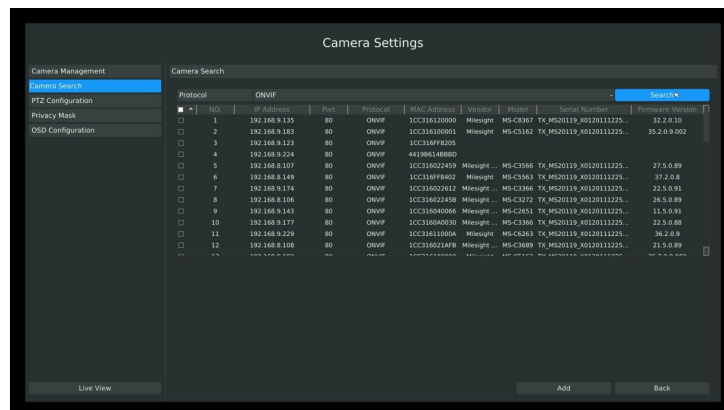
Method1. Add IP Channel in camera search interface

1. Enter camera search interface by clicking Main Menu → Camera → Camera Search.



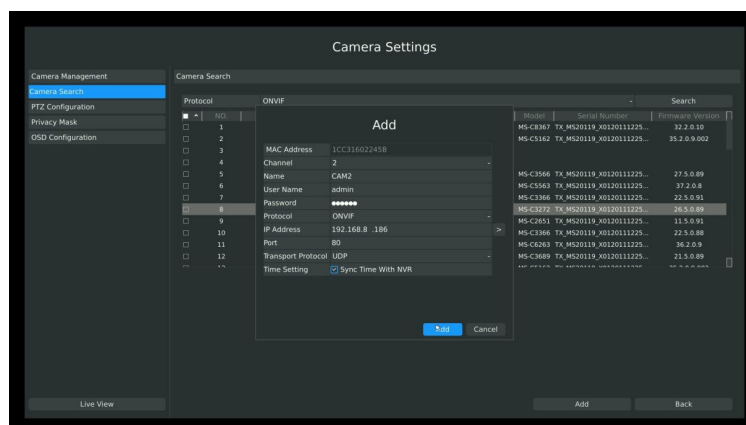
F-3.3.2

2. Click [search] button to quickly search the IP devices that support ONVIF at the same network segment with NVR.



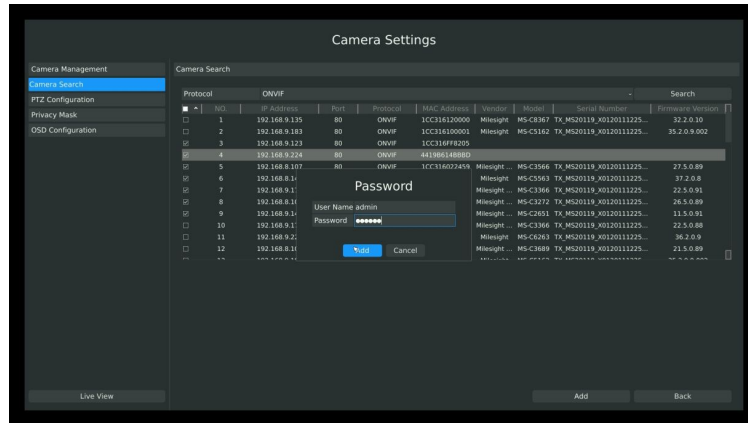
F-3.3.3

3. Double click the channel, input password and click [Add] button.



F-3.3.4

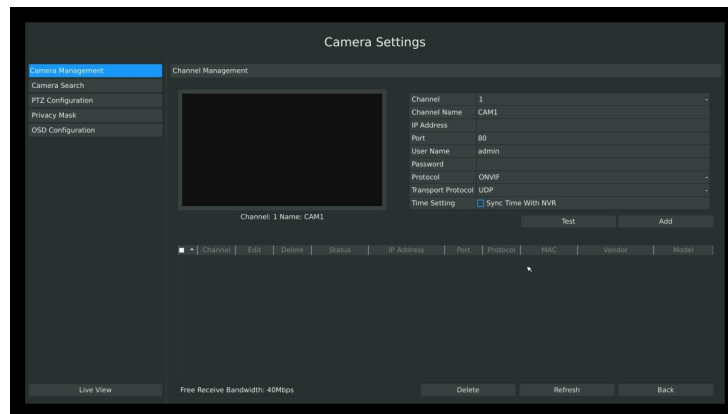
Or Check ☒ to bulk adding the IP cameras if they are with same password.



F-3.3.5

Method2. Add IP Channel in camera management interface

1. Enter camera management menu by clicking Main Menu→Camera→Camera to Management

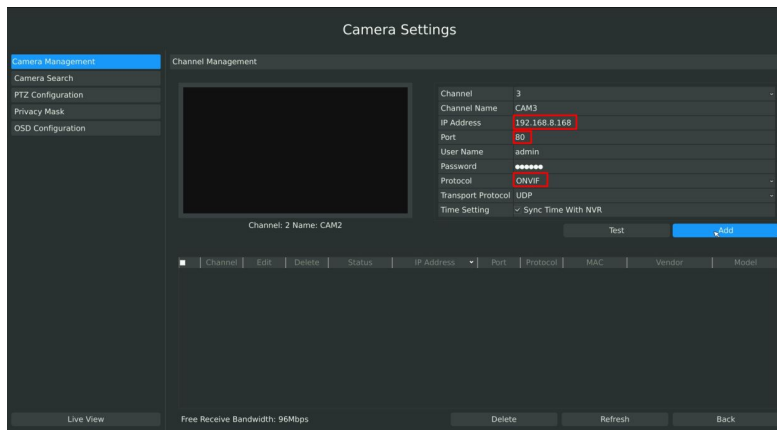


F-3.3.6

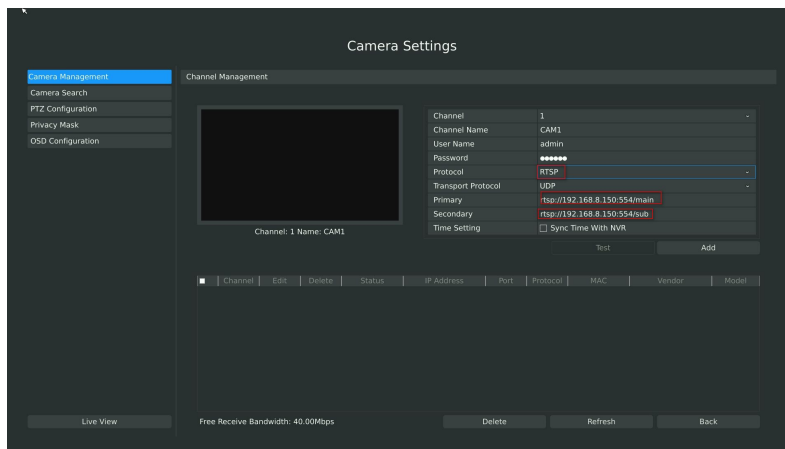
2. Select the attribute page of 'IP Channel', select idle channel then input complete information Click [Add] button.

There are three protocols available for camera connection:

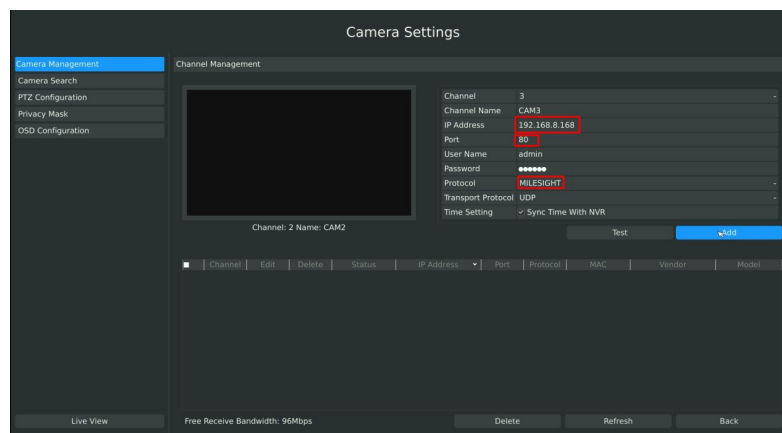
- **ONVIF:** Add the camera with ONVIF protocol, you can add any IP cameras with ONVIF compatible if select this protocol. The detail formats are shown in F-3.3.7;
- **RTSP:** Use RTSP to add camera. You can add any IP cameras which have RTSP protocol streams. You need select 554 for the port and input the resource path for the camera. Take Milesight device for example, for main stream the resource path is "rtsp://IP:port/main" and the second stream is "rtsp://IP:port/sub". The details about adding format are shown in F-3.3.8;
- **MILESIGHT:** If your IP camera is a Milesight device you can select this protocol to add cameras. The detail formats are shown in F-3.3.9;



F-3.3.7 ONVIF



F-3.3.8 RTSP



F-3.3.9 MILESGH


Step3. Check the connection status

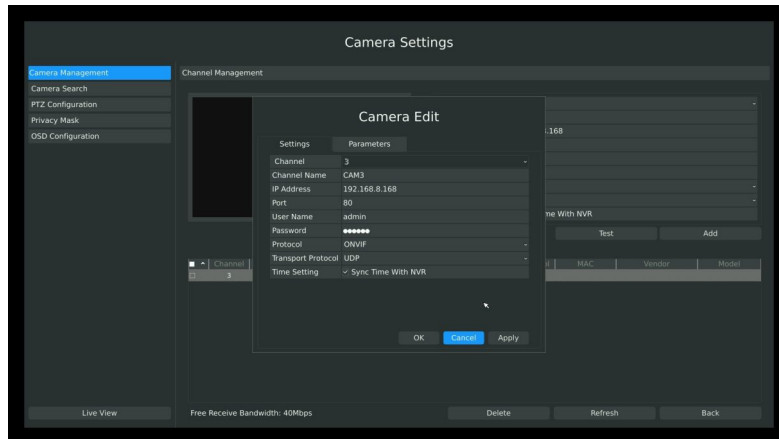
After adding the IP channels, click [Refresh] button, the [status] will show [connected] as below, If not, you need to check if the network is connected or whether the user name, password is correct or not.

Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
1			Connected	192.168.5.168	80	ONVIF	1cc3160a014e	Milesight T...gy Co.,Ltd.	MS-C3366
2			Connected	192.168.5.169	80	ONVIF	1cc316020046	Milesight T...gy Co.,Ltd.	MS-C3658
3			Connected	192.168.5.153	80	ONVIF	1cc31601024f	Milesight T...gy Co.,Ltd.	MS-C2662
5			Connected	192.168.5.191	80	ONVIF	1cc316020059	Milesight T...gy Co.,Ltd.	MS-C3658
6			Connected	192.168.5.192	80	ONVIF	1cc31602002b	KAREL	NBE-213RM-24
7			Connected	192.168.5.152	80	ONVIF	1cc316080009	Milesight T...gy Co.,Ltd.	MS-C3662

F-3.3.10

Step4. Configure IP Channel

- After successfully adding the channel, click  or double-click this channel to re-edit the channel info, address, and password, etc.

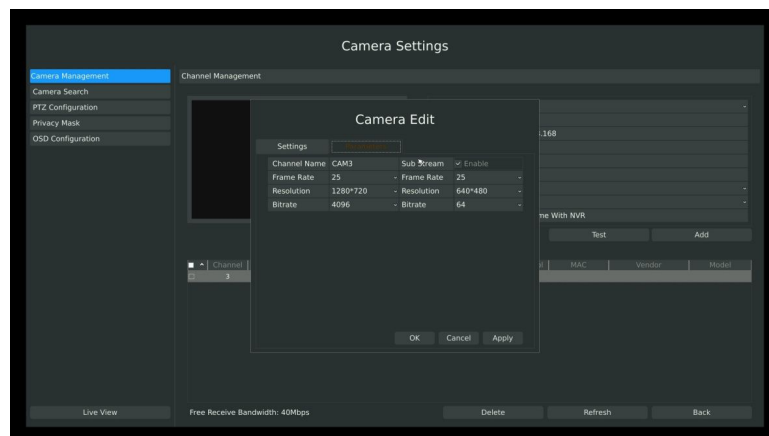


F-3.3.11

Note:

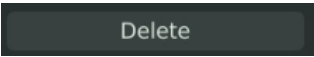
By default, the user name and password entered here are the default user name and password. The management port is 80 and the default Transport protocol is UDP.





- Select [Parameters] attribute page to re-edit this channel parameters. Click [Save] to save the configuration

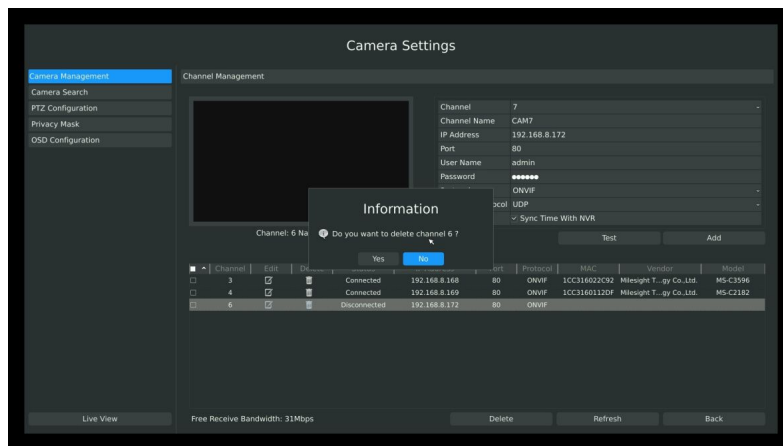


F-3.3.12

- You can delete this IP channel by clicking , or you can multi-select the devices and then

click  to delete.

	Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
<input type="checkbox"/>	1	<input checked="" type="checkbox"/>		Connected	192.168.8.168	80	ONVIF	1CC316022C92	Milesight T...gy Co.,Ltd.	MS-C3596
<input type="checkbox"/>	2	<input checked="" type="checkbox"/>		Connected	192.168.8.169	80	ONVIF	1CC3160112DF	Milesight T...gy Co.,Ltd.	MS-C2182
<input type="checkbox"/>	3	<input checked="" type="checkbox"/>		Connected	192.168.8.172	80	ONVIF	1CC3160A0160	Milesight T...gy Co.,Ltd.	MS-C3662
<input type="checkbox"/>	4	<input checked="" type="checkbox"/>		Connected	192.168.8.170	80	ONVIF	1CC316020032	Milesight T...gy Co.,Ltd.	MS-C3658

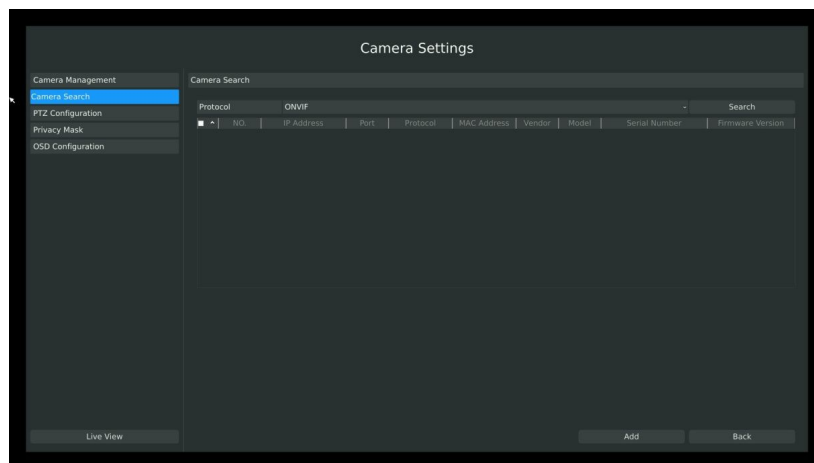


F-3.3.13

3.3.2 Camera Search

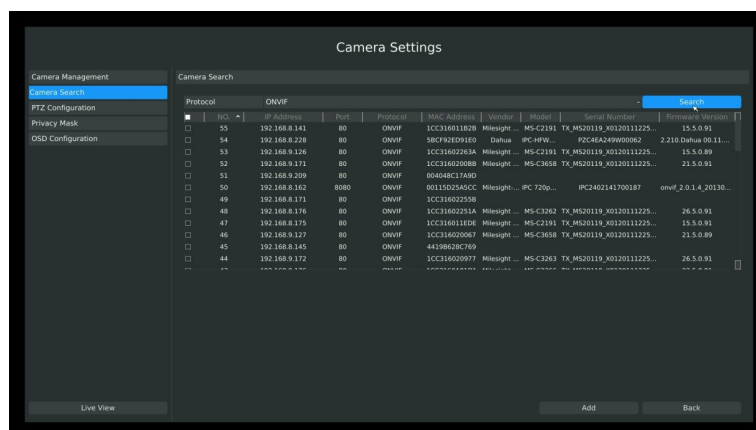
You can search and add IP cameras here

Step1. Enter camera search interface by clicking Main menu → Camera → Camera Search



F-3.3.14

Step2. Click [search] to quickly search the IP devices that support ONVIF at the same network segment with NVR.



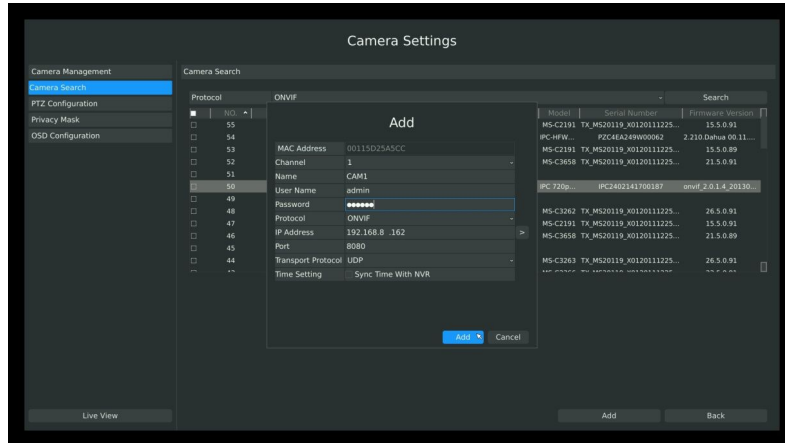
F-3.3.15

Note:

The IP devices found in the list are those that support ONVIF protocol and in the same network segment with NVR.

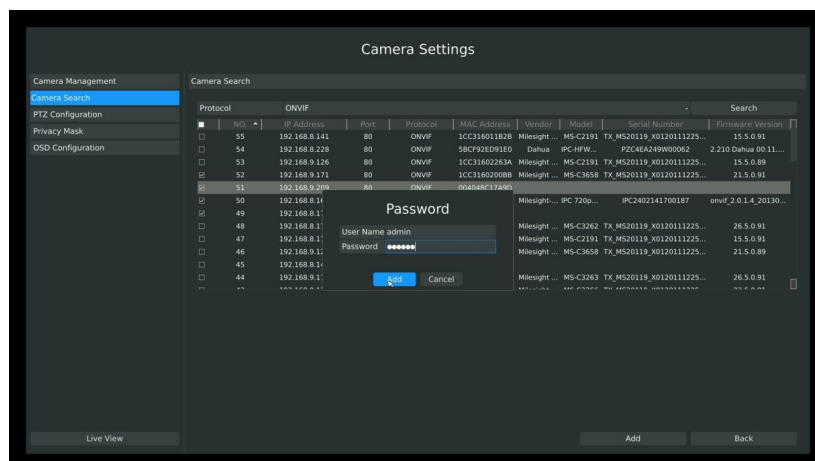
Step3. Add IP Camera

Double click the channel, input password and click [Add] button.



F-3.3.16

Or you can bulk adding the IP cameras if they are with same password. Click [OK] to finish bulk adding.

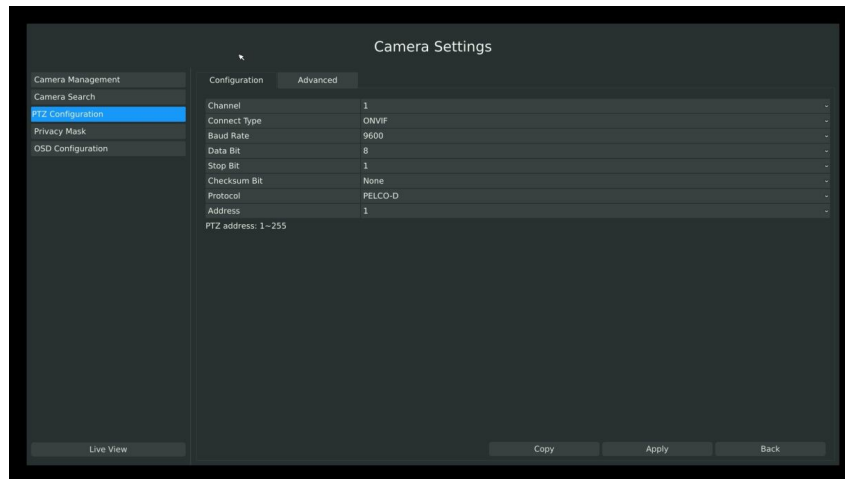


F-3.3.17

3.3.3 PTZ Configuration

3.3.3.1 PTZ control Parameters Configuration

Enter configuration interface by clicking Main Menu → Camera → PTZ Configuration, select "Configuration" page. Choose a channel and set the PTZ parameters. Besides you can click [Copy] to copy the same configuration to other channels.



F-3.3.18

Note:

1. Settings for a PTZ camera must be configured before it can be used. Make sure that the PTZ and RS-485 of the NVR are connected properly.
2. The PTZ protocol and address of IP channel must be consistent with those of the PTZ decoder.

3.3.3.2 Advanced Configuration

Main Menu → Camera → PTZ Configuration, select “Advanced” page. There are two patrol ways can be set: Track Patrol and Tour Patrol.

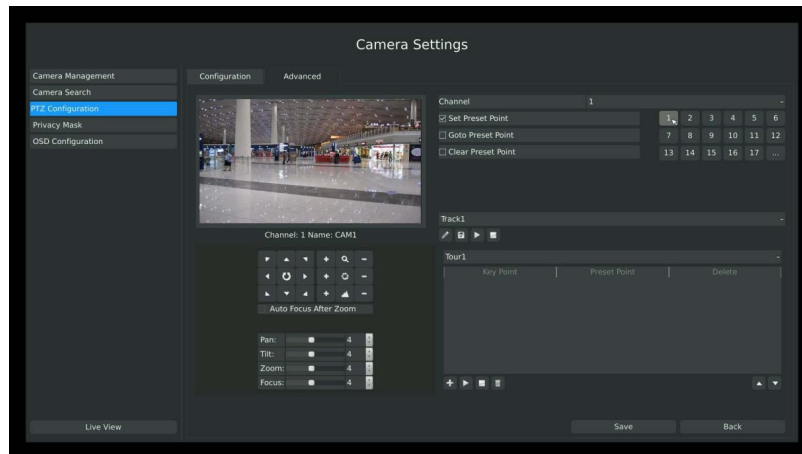
Note:

1. IP channel does not support configuration and calling of presets, patrols and patterns.
2. The functioning of presets patrols and patterns need front PTZ decoder to support.

1. Presets Point Setup

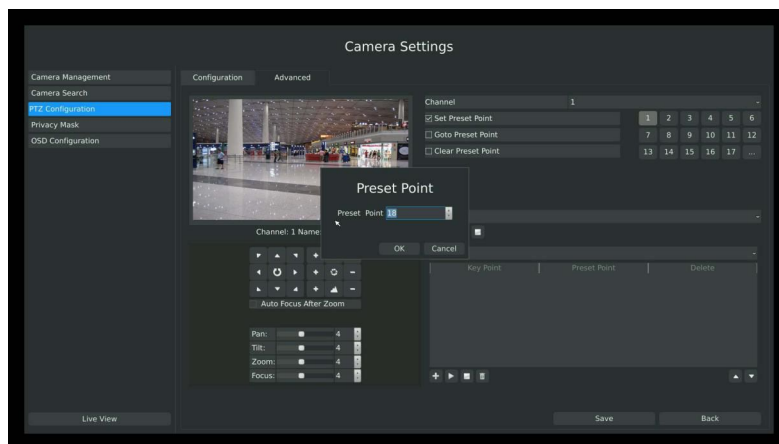
Preset can be set to move your PTZ camera to a desired preset location. The preset point is the preparation for Tour Patrol.

Step1. Use the PTZ direction key to rotate the position of preset. Then select “Set Preset Point” and select a preset number to finish a preset point setting. Repeat above steps to set more preset points.



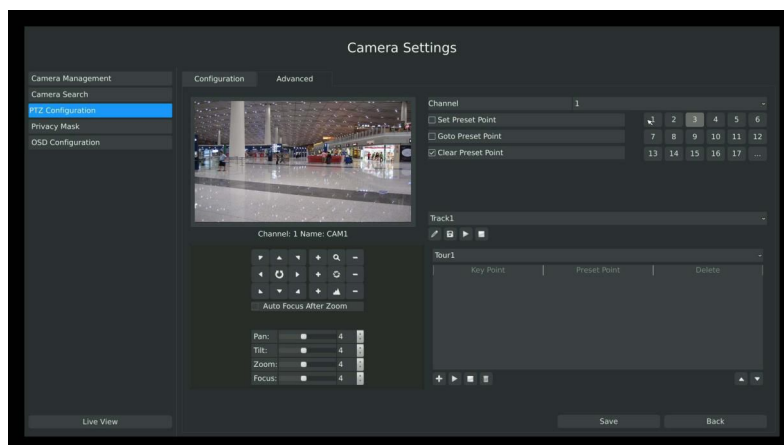
F-3.3.19

Step2. Click  to save or call more preset points after number 17.



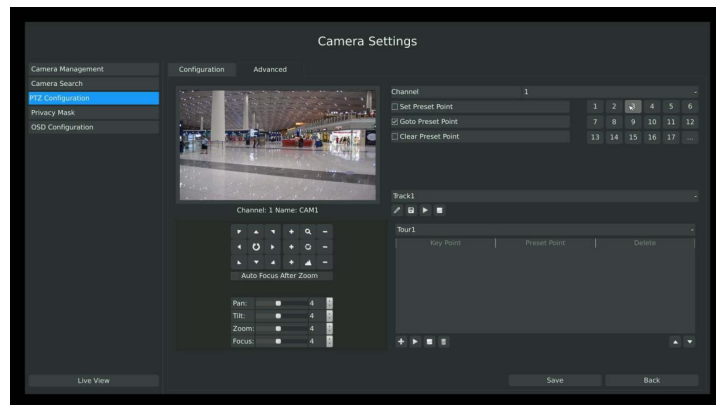
F-3.3.20

Step3. Select 'Clear Preset Point' and click a preset number to delete the preset point.



F-3.3.21

Step4. Select "Go to Preset Point". Click a preset number to check the preset point.

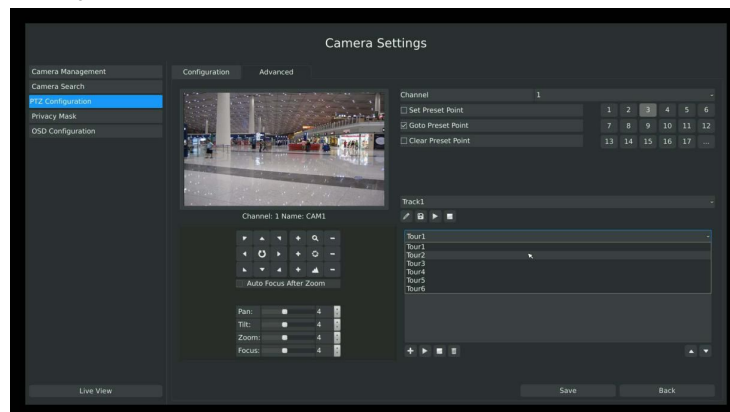


F-3.3.22


2. Tour Patrol

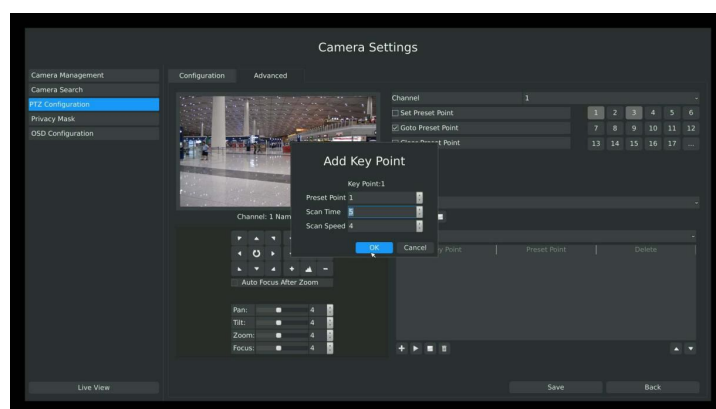
The camera will patrol according to the key points. The total time and patrol speed of the tour is variable.

Step1. Select a tour. Up to 6 tours could be set.



F-3.3.23

Step2. Click  to add key points. Set the key point parameters (including preset point number, scan time and scan speed) and click [OK].



F-3.3.24

Step3. Repeat the above steps to add more key points to the tour patrol.

Step4. Select a key point, select [Delete] and select [Yes] in the dialog box to delete it.

Step5. Click  to preview the tour patrol. Click  to stop.

Step6. Click  and select [Yes] in the dialog box to delete all key points of the tour patrol.

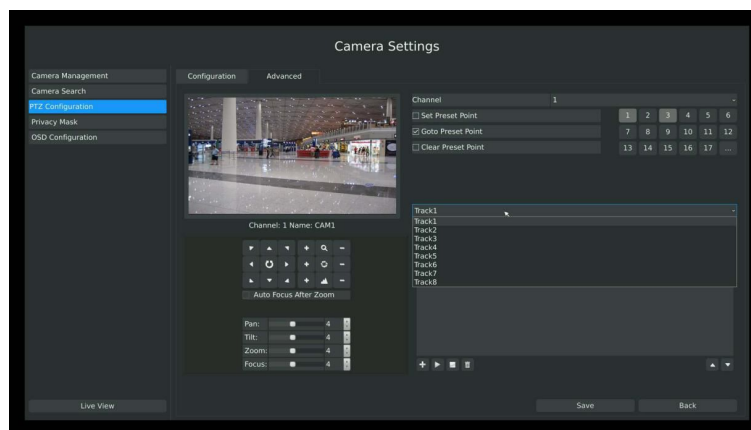
Note:

1. The key point decides the patrol path, which will run according to numerical order of the key points.
2. Scan time is how long the patrol stays on the preset point.
3. Scan speed is the rotate speed of speed dome from one preset point to the next.

4. Track Patrol

The camera will patrol back and forth in a constant speed. There are only a start point and an end point.

Step1. Select a track and click . Up to 8 tracks could be set.



F-3.3.25

Step2. Drag the mouse or click 8 direction keys of mouse control field to rotate PTZ.

Step3. Click  to save the PTZ movement patterns to the Track Patrol.

Step4. Click  to preview the track patrol. Click  to stop.







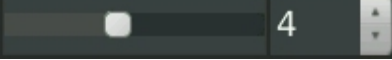
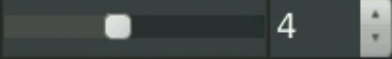
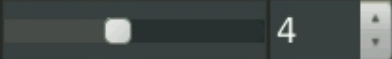

3.3.3.3 PTZ Control Operation

In live view mode, select quick menu of live view channel to enter PTZ control mode. It can access PTZ control by PTZ control bar or panel PTZ control button.

Description of PTZ Control Bar

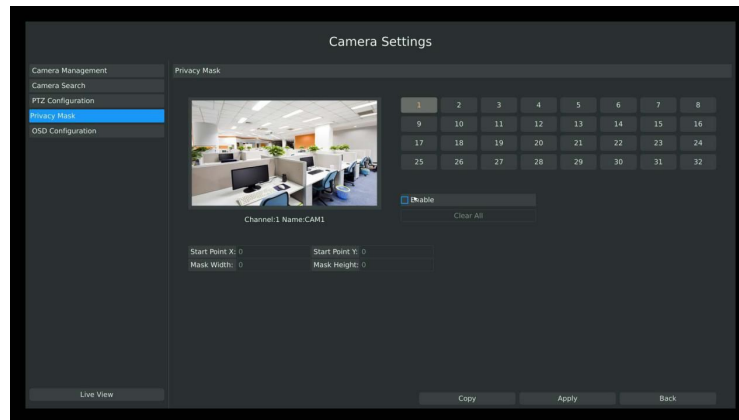


F-3.3.26

Icon	Description	Icon	Description	Icon	Description
	PTZ Direction Control and Auto Scan Button		Adjust Zoom+, Focus+, IRIS+		Adjust Zoom-, Focus-, IRIS-
	Zoom: Zoom in or out		Focus		IRIS
<input type="checkbox"/> Auto Focus After Zoom		Focus automatically after manual zoom			
Pan: 		Horizontal Movement Adjustment			
Tilt: 		Vertical Movement Adjustment			
Zoom: 		Zoom Adjustment			
Focus: 		Focus Adjustment			

3.3.4 Privacy Mask

Milesight NVR support privacy mask. It used to cover some privacy area which is not proper to appear on monitor. Entering Privacy Mask interface by clicking: Main Menu→ Camera→Privacy Mask.



F-3.3.27

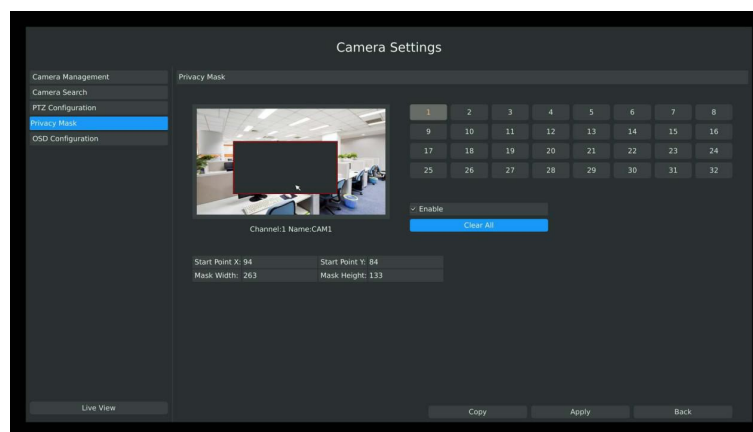
You can add a privacy mask by following steps:

Step1. Select channel on the right top of the interface, and enable it on the below of the channel;

Step2. Set the area of privacy mask:

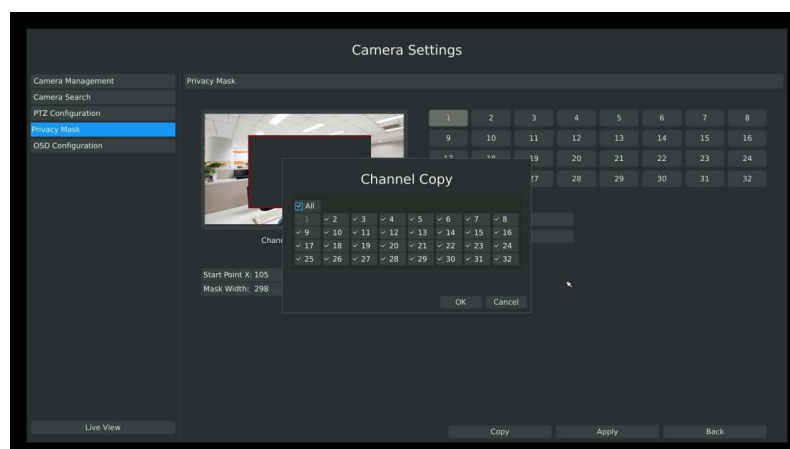
Way1: Drag the mouse to select the area which is privacy on the live window;

Way2: Set the coordinates of privacy area in the columns below the live window;



F-3.3.28

Step3. Copy the privacy area to the other channels by click the “copy” button on the bottom of the windows;



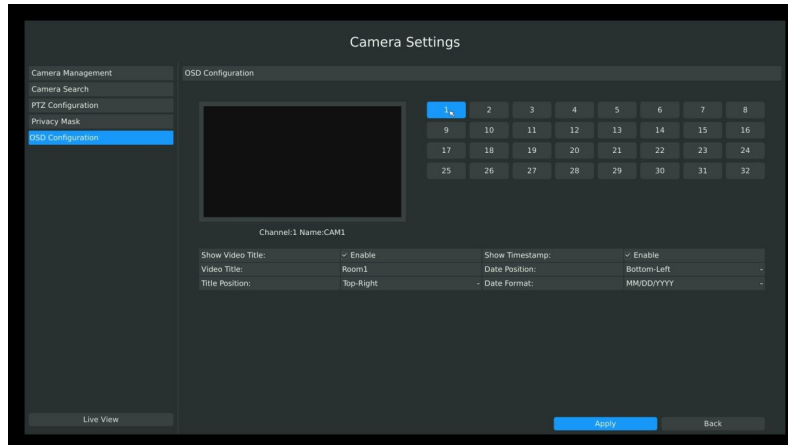
F-3.3.29

Step4. Select “Apply” to save the settings.

3.3.5 OSD configuration

You can set OSD (On Screen Display) on NVR, and the OSD will be synchronized on IPC.

Entering OSD Configuration interface by clicking: Main Menu→ Camera→OSD Configuration.



F-3.3.30

Step1. Select channel by clicking the channel number on the right-top, the selected channel will change into gray and the channel number will change into yellow;



Step2. Enable video title and timestamp:

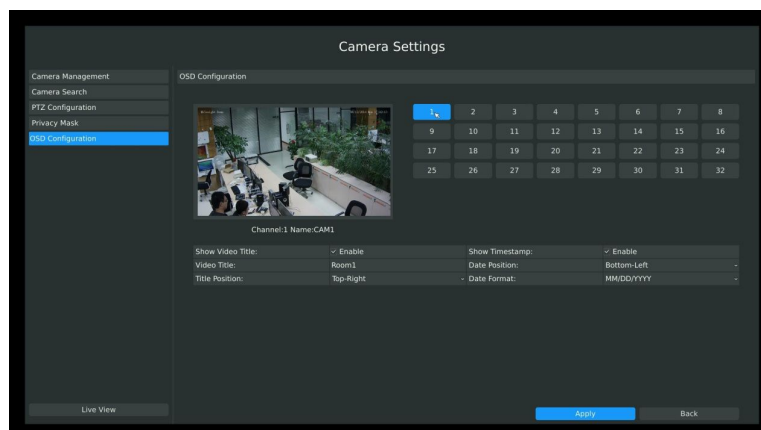
Show Video Title:	<input checked="" type="checkbox"/> Enable	Show Timestamp:	<input checked="" type="checkbox"/> Enable
Video Title:	Room1	Date Position:	Bottom-Left
Title Position:	Top-Right	Date Format:	MM/DD/YYYY

[Video Title]: Set the video title for the channel;

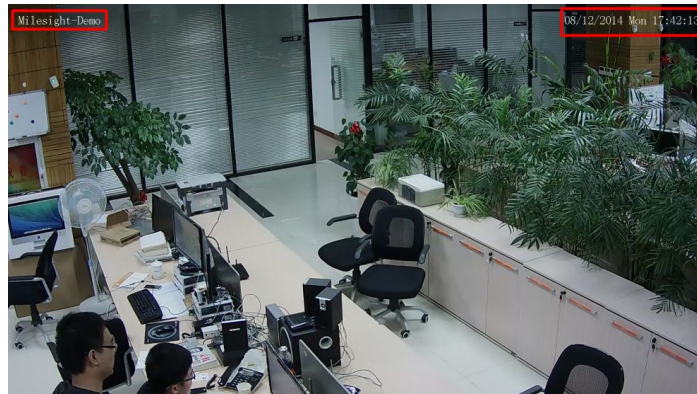
[Title Position]: Set the position for the video title: Top-Left or Top-Right;

[Date Position]: Set the position for the date: Top-Left, Top-Right, Bottom-Left or Bottom-Right;

[Date Format]: Set format for date: YYYY-MM-DD, MM/DD/YY or DD/MM/YYYY;



F-3.3.31



F-3.3.32

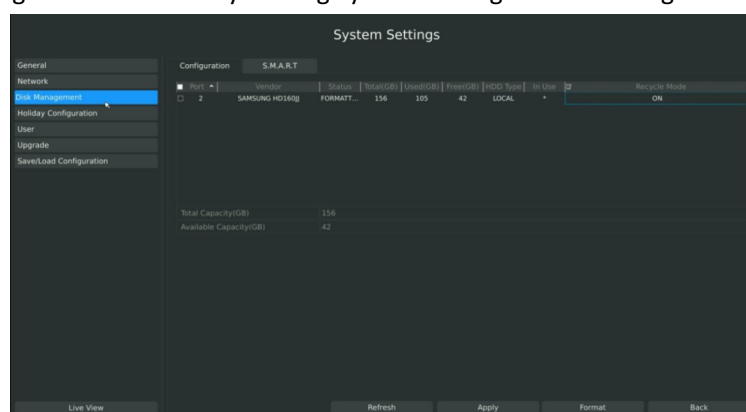
Step3. Select “Apply” to save the settings.

3.4 Record Settings

Preparation for Configuration

Step1. Ensure your NVR has Install and initialize the HDD.

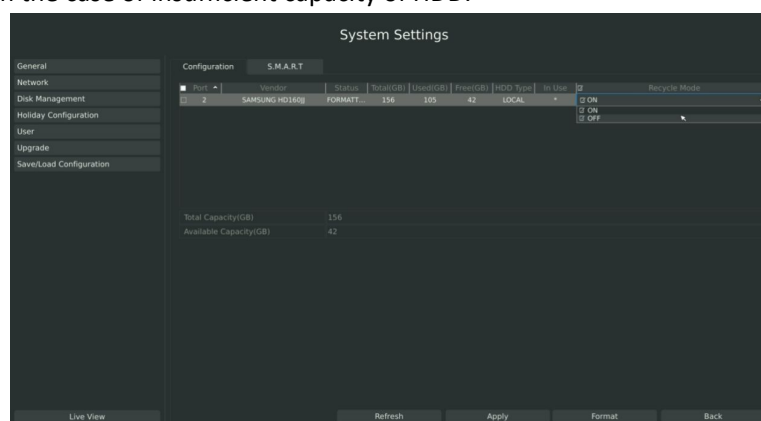
Enter disk management interface by clicking System Settings→Disk Management



F-3.4.1

Step2. Ensure that HDD has sufficient storage space.

Enter disk management interface by clicking System Setting →Disk Management. Select [Recycle Mode] to ON in the case of insufficient capacity of HDD.

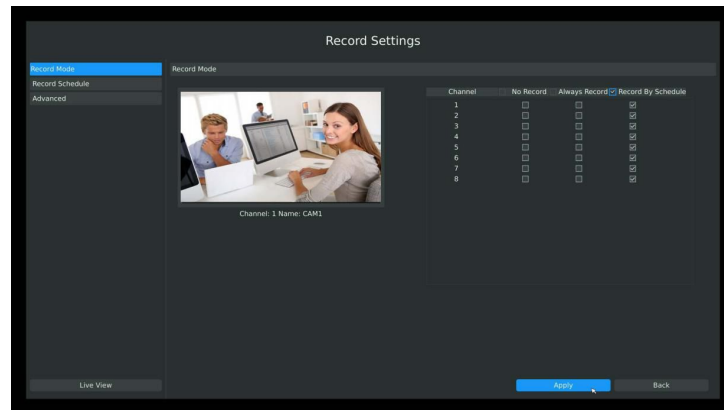


F-3.4.2

3.4.1 Record Mode

Step1. Enter record mode menu by clicking **Main Menu → Record → Record Mode**.

There are three record modes: No Recording/Always Record/Record by Schedule. You can select desired one to every channel.



F-3.4.3

[No Record]: NVR will not record if you choose this column;

[Always Record]: It will always record the chosen channel;

[Record By Schedule]: If you want NVR to record by schedule, then you need select this column and then go to 3.4.2;

Step2. Click **[Apply]** to save the configuration.

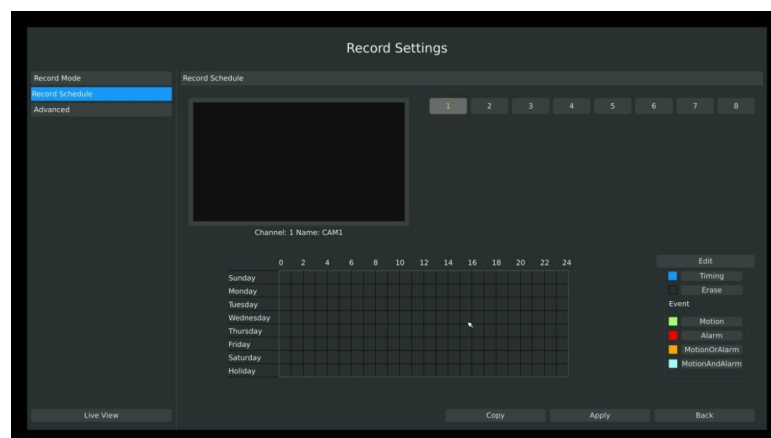
3.4.2 Record Schedule Setting

Note:

The days are divided as **Holiday/Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday**. The schedule of **Holiday** is superior to other days. To set the holiday information, go to **Chapter 3.8.4**.

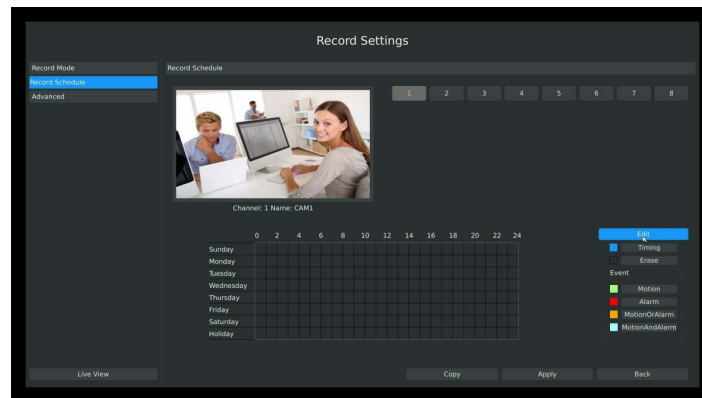
Method1. General Setting

Step1. Enter Record schedule interface by clicking **Record Settings→Record Schedule**



F-3.4.4

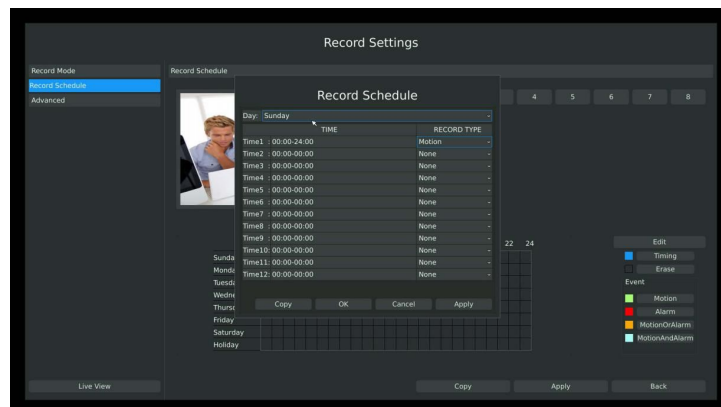
Step2. Select desired channel (e.g. Channel 1) and click [Edit] button



F-3.4.5

Step3. Set record schedule

Select a day from the drop-down list of [Day], and select [Record Type] to setup the recording period, up to 12 periods can be set. (e.g. 01:00 to 05:00 for none recording; 06:00 to 18:00 for timing recording; 19:00 to 21:00 for Motion recording; 22:00 to 24:00 for Alarm recording)

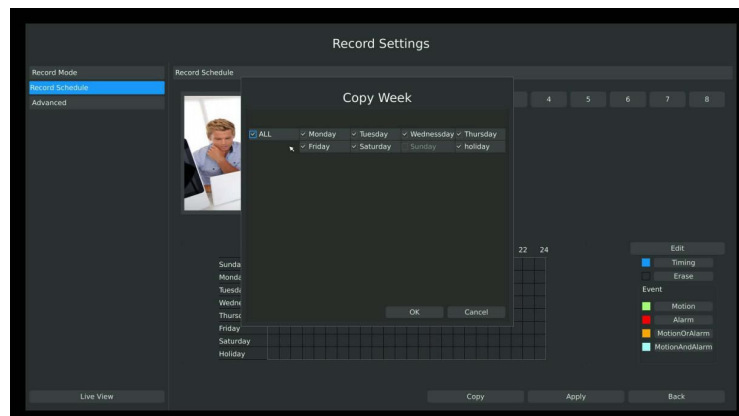


F-3.4.6

Note:

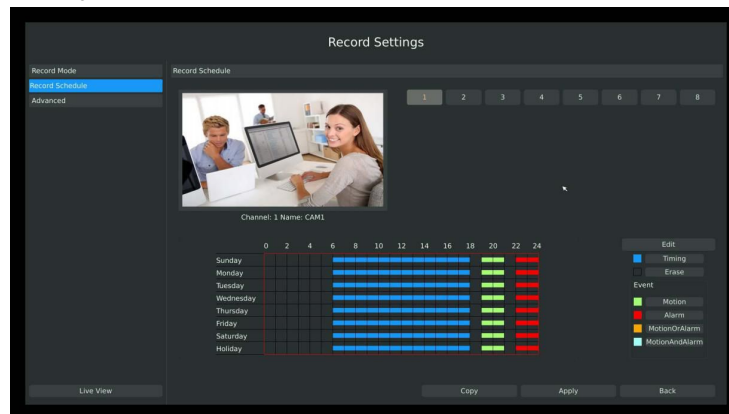
Time periods cannot overlap with each other.

Step4. Click [Copy] to copy settings to other weekdays, and then click [Apply] to confirm the setting.



F-3.4.7

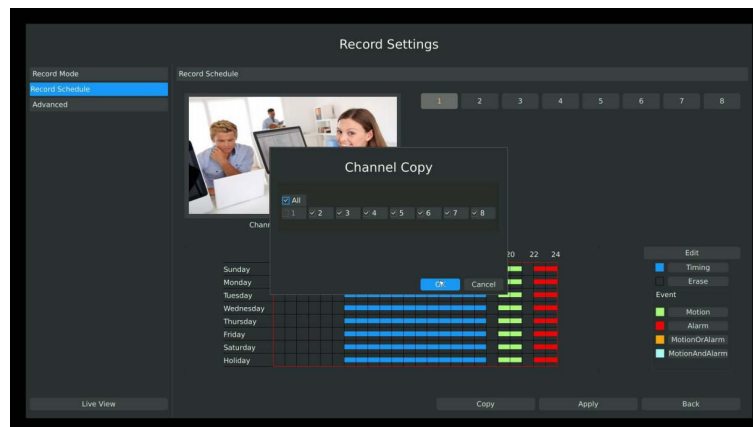
Step5. After above steps, this channel with show as below:



F-3.4.8

Step6. Copy the recording settings to other channels

Select [Copy] to copy the same settings to other channels. And click [OK] to save the configuration.



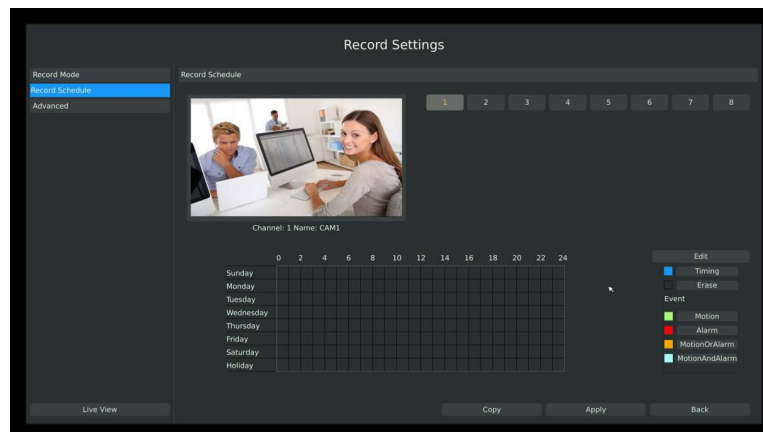
F-3.4.9

Step7. Save the configuration

Click [Apply] button to save the configuration, and then click [Back] to return to the previous menu.

Method2.Set record schedule by drag the mouse

Step1. Enter Record schedule interface by clicking Record Settings→Record Schedule



F-3.4.10

Step2. Click desired channel and record type show as below:



F-3.4.11

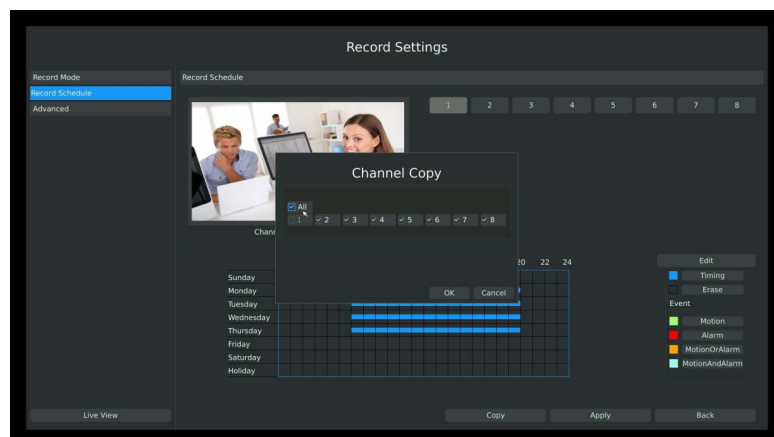
Step3. Drag the mouse to draw certain areas in recording setting zone and then click[Apply] to save the configuration.



F-3.4.12

Step4. Copy the recording settings to other channels.

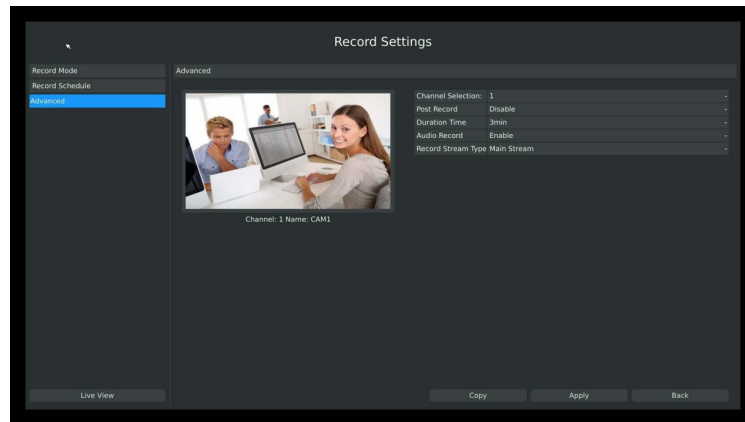
Select [Copy] to copy the same settings to other channels. And click [OK] to save the configuration.



F-3.4.13

3.4.3 Advanced settings

You can set the advanced settings there.



F-3.4.14

Illustration for Parameters

[Channel Selection]: Select the channel which will be set.

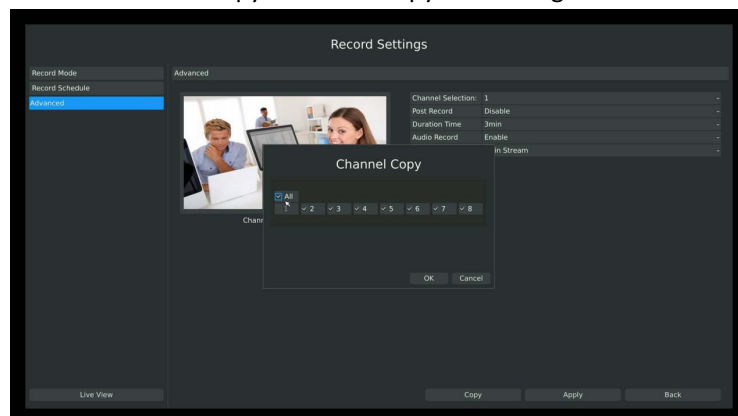
[Post Record]: Enable/Disable post record after the event is over

[Duration Time]: Event pre-record duration before event alarm

[Audio Record]: Select to record audio or not

[Record Stream Type]: Select Main stream or sub stream for record

Lastly choose you can choose the copy button to copy the settings of record for other channels.



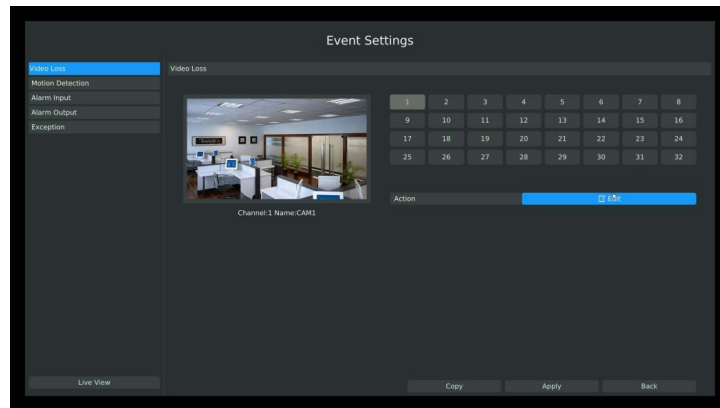
F-3.4.15

3.5 Event Settings

3.5.1 Video Loss

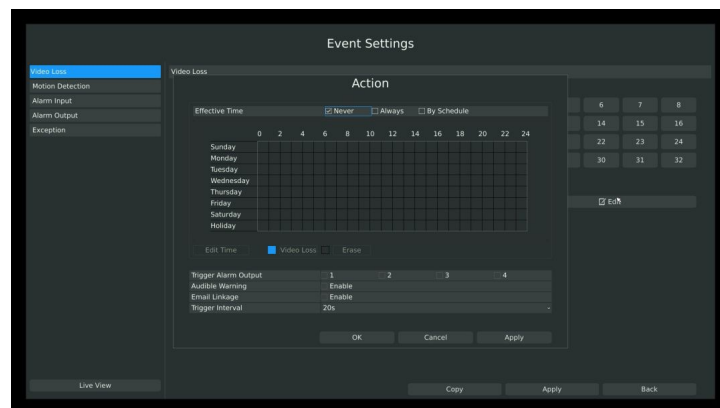
Your NVR can be setup to detect video loss and trigger an action.

Step1. Enter video loss configuration interface by clicking Main Menu→Event→Video Loss .



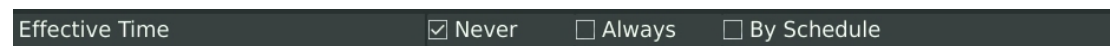
F-3.5.1

Step2. Select a desired channel and click [Edit] to configure video loss.



F-3.5.2

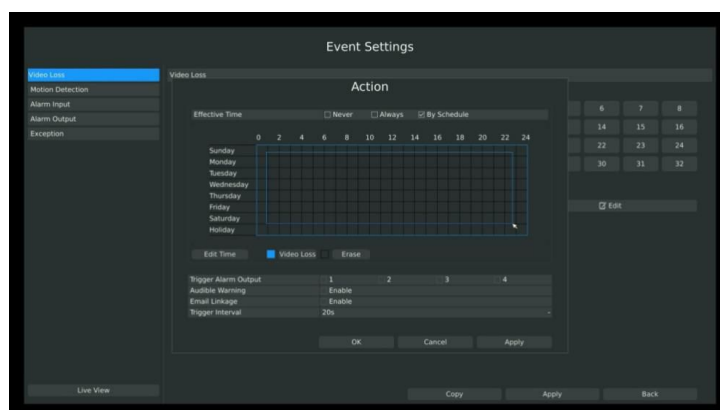
Step3. Select effective time to setup when you want to trigger actions once video loss is detected.



[Never]: Your NVR will not trigger any actions when [Never] button is checked. No matter the [Audible Warning] or [Email Linkage] check-boxes are checked or not.

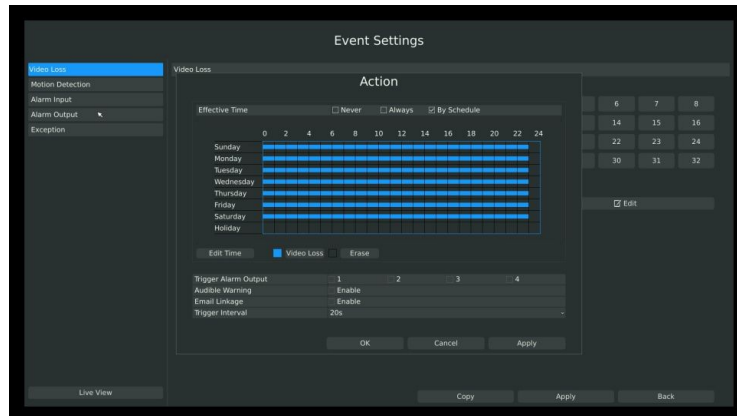
[Always]: Your NVR will always trigger actions when [Always] button is checked. Please make sure [Audible Warning] or [Email Linkage] is checked.

[By Schedule]: You can drag the mouse to draw certain area in schedule setting zone, show as below:



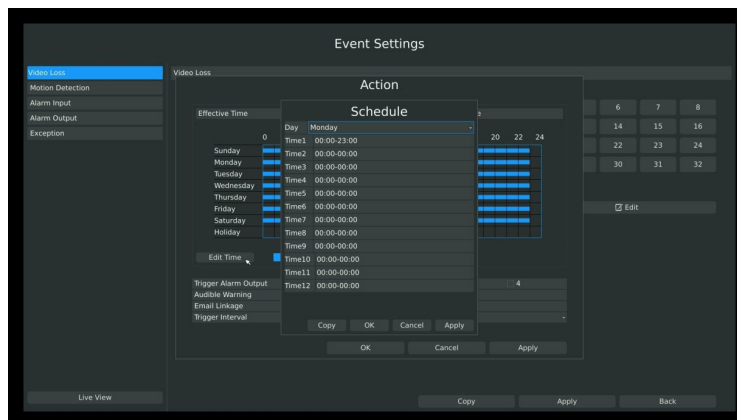
F-3.5.3

After dragging this will show as below:



F-3.5.4

Or click [Edit Time] to set schedules. Schedule can be set for all week or any day of the week with up to 12 time periods per day. Video loss actions take effect in the scheduled period only.

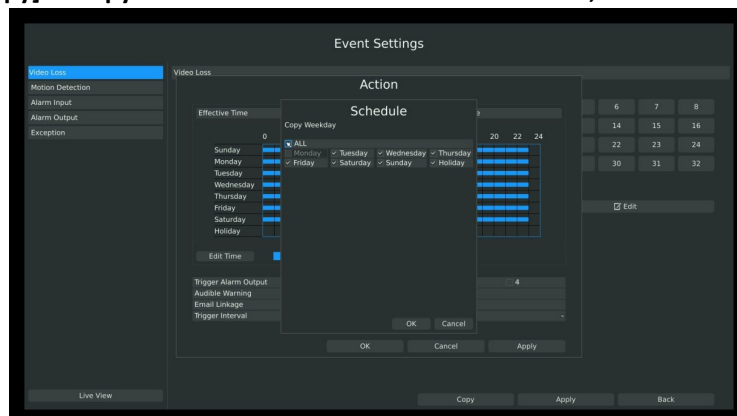


F-3.5.5

Note:

Time periods cannot overlap with each other.

Step4. Click [Copy] to copy the video loss schedule to other weeks, and then click [OK].



F-3.5.6

Step5. Select actions you want when video loss is detected.

Trigger Alarm Output	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
Audible Warning	<input type="checkbox"/> Enable
Email Linkage	<input type="checkbox"/> Enable
Trigger Interval	20s

[Trigger Alarm Output]: Select whether trigger the alarm output or not when video loss is detected.

[Audible Warning]: Trigger an audible beep when video loss is detected

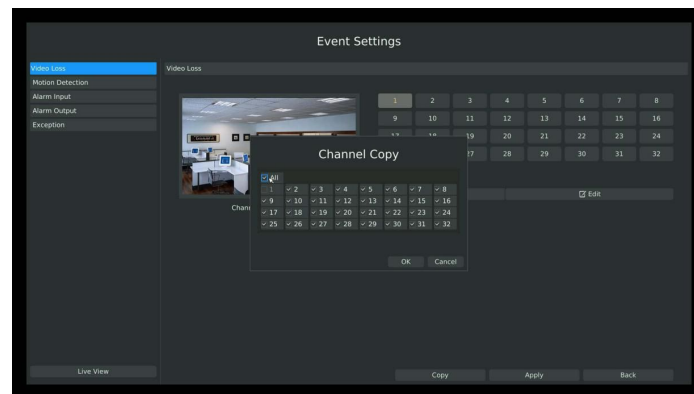
[Email Linkage]: Send video loss note to specified email address when video loss is detected.
(Please refer to 3.8.2.4 Mail configuration for mail address setting)

[Trigger Interval]: Set the interval between two events.

Note:

These actions will only take response according to effective time you choose

Step6. Click [OK] or [Apply] to confirm the settings. Repeat above steps for other channels. Or click [Copy] to copy settings to other channels.

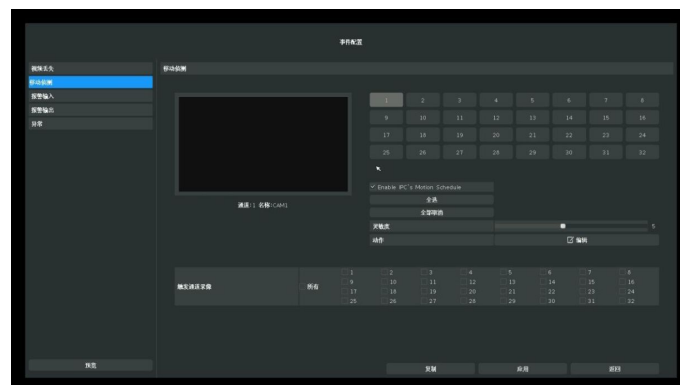


F-3.5.7

3.5.2 Motion Detection

Your NVR can be setup to motion detect and trigger an action. You can set the motion detection on NVR or on IPC web, both sides' settings will be synchronous in both devices.

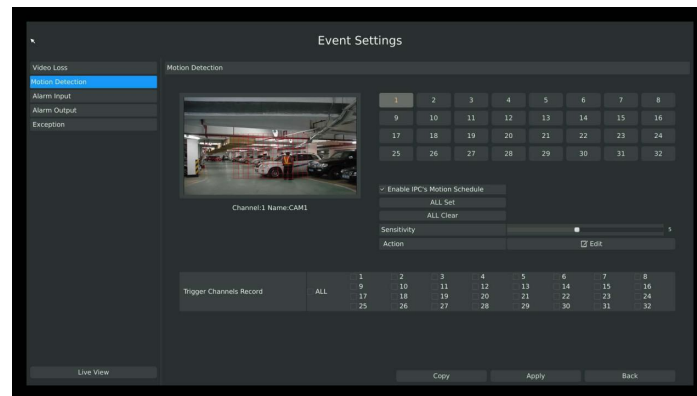
Step1. Enter motion detection setting interface by clicking Main Menu → Event → Motion Detection.



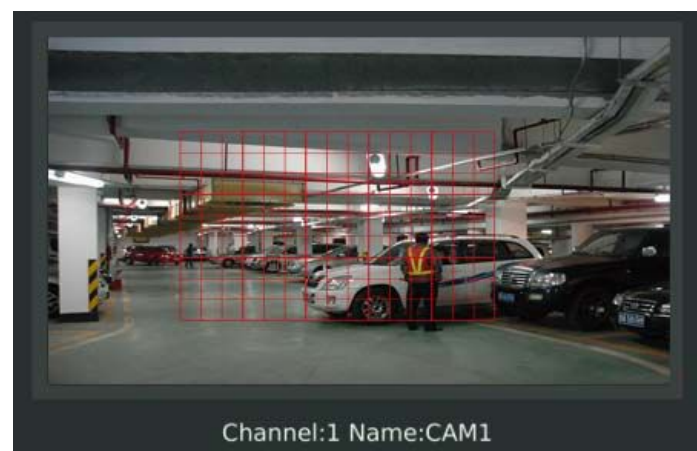
F-3.5.8

Step2. Set the trigger area for motion detection.

You can set the area by dragging the mouse on live view window:



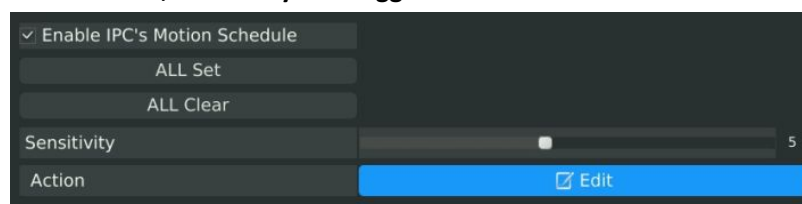
F-3.5.9



F-3.5.10

And meanwhile the area will be synchronized in IPC.

Step3. Select the schedule, sensitivity and trigger area for motion detection.



[Enable IPC's Motion]: If it is enabled here, motion detect will take effect 7*24h; If it is not enabled, motion detect will take effect as the schedule which is set on the camera web.

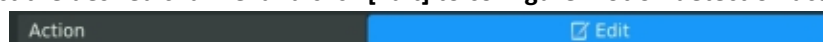
[All Set]: Set all area as the trigger area;

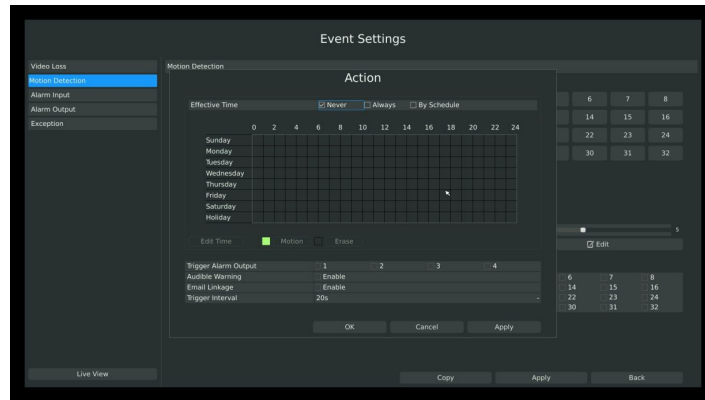
[All Clear]: Clear all trigger area;

[Sensitivity]: Set sensitivity for motion detection, range from 1 to 10. It will synchronize to IPC if you set sensitivity here;

[Action]: Edit action once motion is detected, refers to next step;

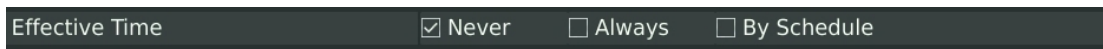
Step4. Select the desired channel and click [Edit] to configure motion detection action.





F-3.5.11

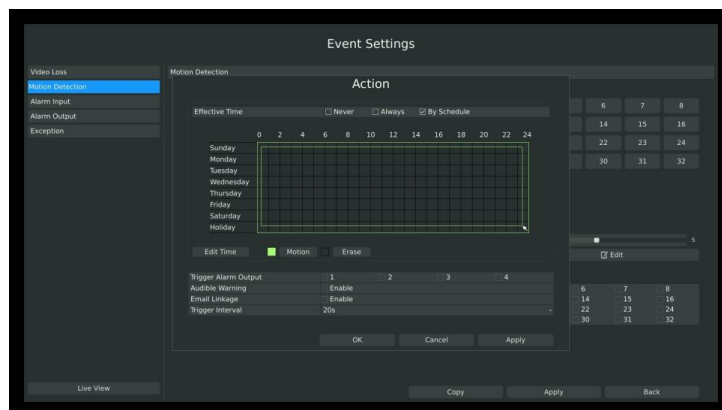
Step5. Select effective time to setup when you want to trigger actions once motion is detected.



[Never]: Your NVR will not trigger any actions when [Never] button is checked. No matter the [Audible Warning] or [Email Linkage] check-boxes are checked or not.

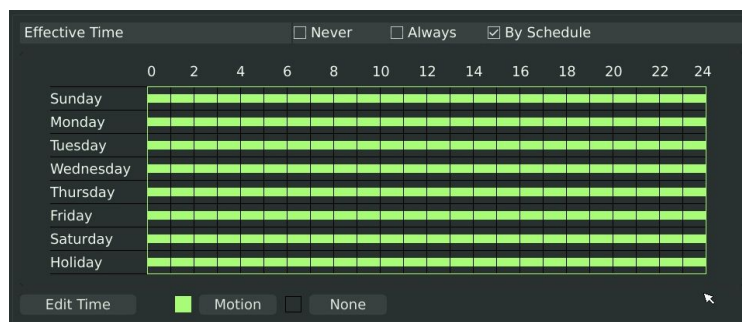
[Always]: Your NVR will always trigger actions when [Always] button is checked. Please make sure [Audible Warning] or [Email Linkage] is checked.

[By Schedule]: You can drag the mouse to draw certain area in schedule setting zone, show as below:



F-3.5.12

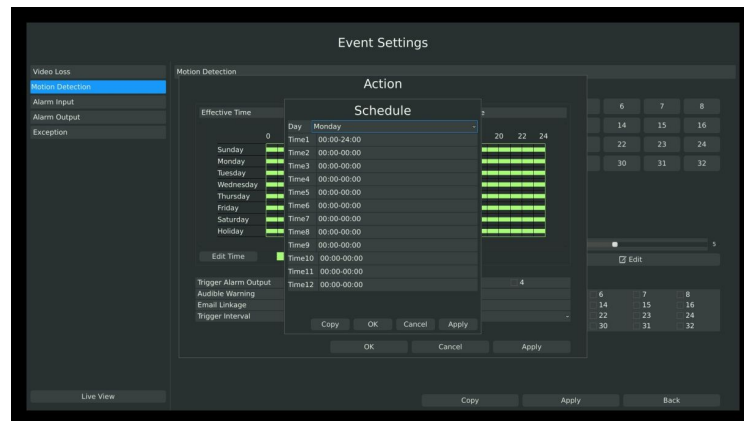
After dragging, this channel will show as below:



F-3.5.13

Or click [Edit Time] to setup schedules. Schedule can be set for all week or any day of the week with up to 12 time periods per day. Motion detection actions take effect in the scheduled period

only.

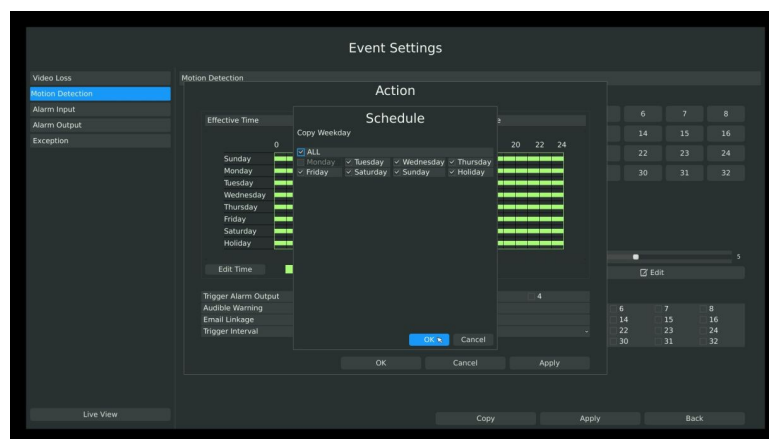


F-3.5.14

Note:

Time period cannot overlay with each other

Step6. Click [Copy] to copy the motion detection schedules to other weekdays.



F-3.5.15

Step7. Select actions you want when motion is detected

Trigger Alarm Output	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Audible Warning	<input type="checkbox"/> Enable			
Email Linkage	<input type="checkbox"/> Enable			
Trigger Interval	20s			

[Trigger Alarm Output]: Select whether trigger the alarm output or not when video loss is detected.

[Audible Warning]: Trigger an audible beep when video loss is detected

[Email Linkage]: Send video loss note to specified email address when video loss is detected.(Please refer to 3.8.2.4 Mail configuration for mail address setting)

[Trigger Interval]: Set the interval between two events.

Note:

These actions will only take response according to effective time you choose.

Step8. [Trigger Channels Record]: Select channels to trigger for recording when motion is

detected by checking the check-boxes under the desired channels. Please make sure other channels has setup motion recording schedule. (Refer to 3.4 Record settings)

Trigger Channels Record	<input type="checkbox"/> ALL	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8
		<input type="checkbox"/> 9	<input type="checkbox"/> 10	<input type="checkbox"/> 11	<input type="checkbox"/> 12	<input type="checkbox"/> 13	<input type="checkbox"/> 14	<input type="checkbox"/> 15	<input type="checkbox"/> 16
		<input type="checkbox"/> 17	<input type="checkbox"/> 18	<input type="checkbox"/> 19	<input type="checkbox"/> 20	<input type="checkbox"/> 21	<input type="checkbox"/> 22	<input type="checkbox"/> 23	<input type="checkbox"/> 24
		<input type="checkbox"/> 25	<input type="checkbox"/> 26	<input type="checkbox"/> 27	<input type="checkbox"/> 28	<input type="checkbox"/> 29	<input type="checkbox"/> 30	<input type="checkbox"/> 31	<input type="checkbox"/> 32

Step9. Click [Apply] or [OK] to confirm settings. Repeat above steps to other channel. Or click [Copy] to copy settings to other channel.

F-3.5.16

3.5.3 Alarm Input

Alarm Input function is supported in some specific models. Please make sure your NVR has such function first.

Step1. Select Main Menu-Event-Alarm Input.

F-3.5.17

Step2. Set Alarm input channel, Alarm Name, Alarm Type and Record Channels.

Alarm Input NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Alarm Name																
Alarm Type	NO															
Trigger Channels Record	<input type="checkbox"/> ALL	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8							
		<input type="checkbox"/> 9	<input type="checkbox"/> 10	<input type="checkbox"/> 11	<input type="checkbox"/> 12	<input type="checkbox"/> 13	<input type="checkbox"/> 14	<input type="checkbox"/> 15	<input type="checkbox"/> 16							
		<input type="checkbox"/> 17	<input type="checkbox"/> 18	<input type="checkbox"/> 19	<input type="checkbox"/> 20	<input type="checkbox"/> 21	<input type="checkbox"/> 22	<input type="checkbox"/> 23	<input type="checkbox"/> 24							
		<input type="checkbox"/> 25	<input type="checkbox"/> 26	<input type="checkbox"/> 27	<input type="checkbox"/> 28	<input type="checkbox"/> 29	<input type="checkbox"/> 30	<input type="checkbox"/> 31	<input type="checkbox"/> 32							
Action	<input checked="" type="checkbox"/> Edit															

F-3.5.18

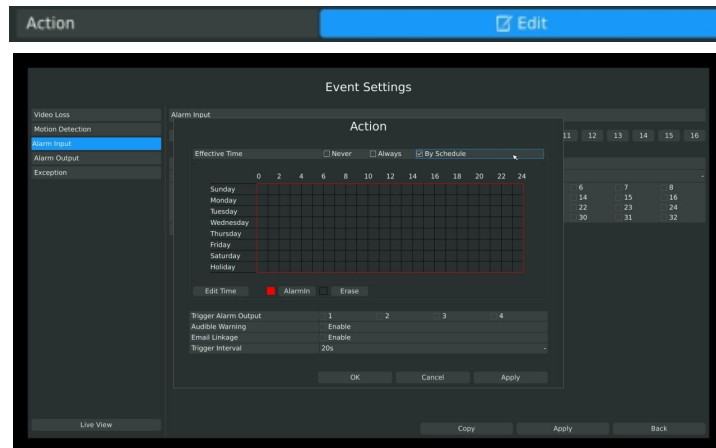
[Alarm Input NO]: The channel which has input signal;

[Alarm Name]: Set a name for the alarm;

[Alarm Type]: Select alarm type: NO or NC;

[Trigger Channels Record]: Once the channel in the [Alarm Input No] has alarm input, which channels will be triggered to record. Refer to 3.4 Record Settings;

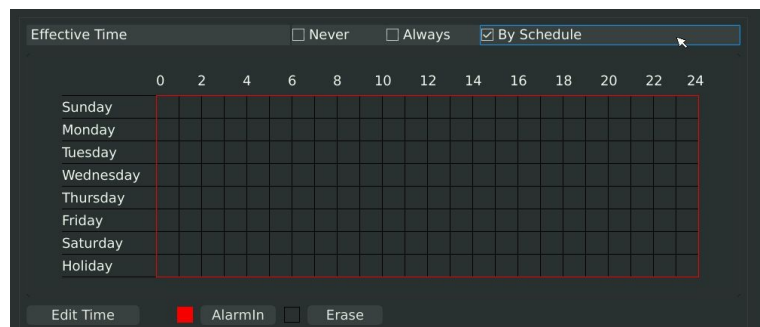
Step3. Set action for alarm input.



F-3.5.19

You need to set **1.Effective time** and **2.Action** on this Action Interface:

1. Effective time:



F-3.5.20

You can set three different modes for effective time:

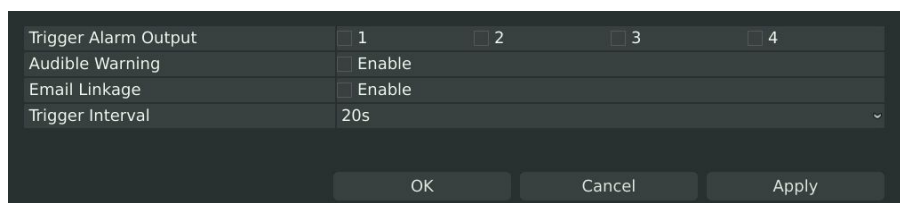
[Never]: Will have no action triggered if it is checked;

[Always]: Will always trigger the action if checked;

[By Schedule]: Will take effect by the schedule you set.

If you choose By Schedule, you need to set schedule by 1.drag the mouse on the time schedule area or 2.by click the "Edit Time" button.

2. Action



F-3.5.21

[Trigger Alarm Output]: Select whether trigger the alarm output or not when video loss is

detected.

[Audible Warning]: Trigger an audible beep when video loss is detected

[Email Linkage]: Send video loss note to specified email address when video loss is detected.
(Please refer to 3.8.2.4 Mail configuration for mail address setting)

[Trigger Interval]: Set the interval between two events.

Note:

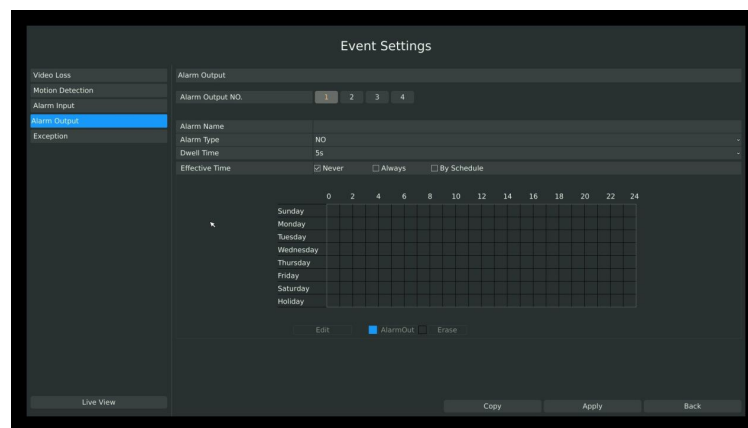
These actions will only take response according to effective time you choose.

Lastly need to APPLY these settings to take effect.

3.5.4 Alarm Output

Alarm Output function is supported on MS-N5016, MS-N5116, MS-N8016, MS-N8032.

Step 1. Select Main Menu-Event-Alarm Output:



F-3.5.22

Step 2. Set Alarm output channel, Alarm Name, Alarm Type and Record Channels:

Alarm Output NO.	1 2 3 4
Alarm Name	
Alarm Type	NO
Dwell Time	5s

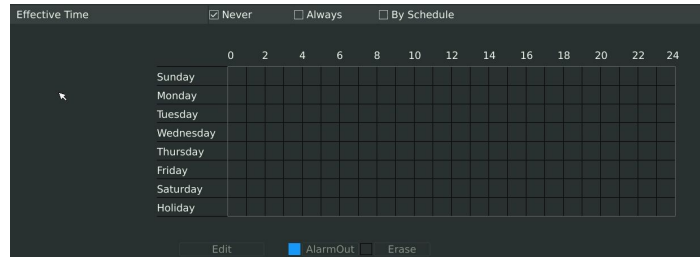
[Alarm Output NO]: The channel which will output the alarm signal;

[Alarm Name]: Set a name for the alarm;

[Alarm Type]: Select alarm type: NO or NC;

[Dwell Time]: Set the output time for alarm, if that is too long when alarm out is outputting, you can select the Manually Clear to stop it.

Step3. Select Effective Time for alarm output:



F-3.5.23

You can set three different modes for effective time:

[Never]: Will have no action triggered if it is checked;

[Always]: Will always trigger the action if checked;

[By Schedule]: Will take effect by the schedule you set.

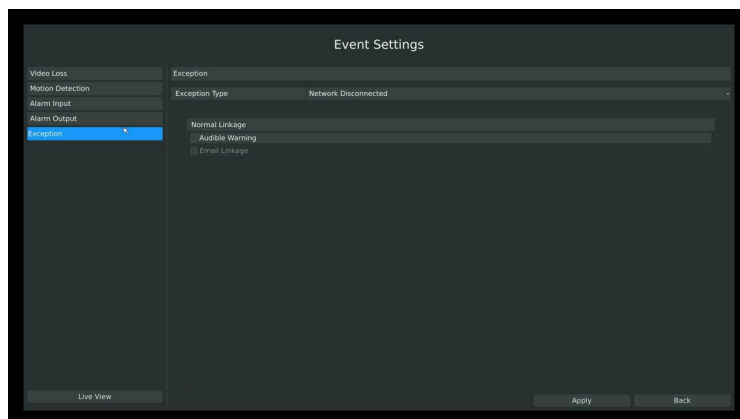
If you choose By Schedule, you need to set schedule by 1.drag the mouse on the time schedule area or 2.by click the “Edit Time” button.

Lastly need to APPLY these settings to take effect.

3.5.5 Exception

Milesight NVR support exception alarm hint for 1. Network Disconnected; 2.HDD Full; 3.Record Fail; 4.HDD Error;

Step1. Enter Exception by clicking Main Menu-Event-Exception;



F-3.5.24

Step2. Select Exception Type;

There are 4 kinds of alarm type:

[Network Disconnected]: Lost of network;

[HDD Full]: When HDD is full. It usually happened when Recycle Mode is OFF.

[Record Fail]: When record Failed. Including HDD Error, HDD Full, no HDD and so on.

[HDD Error]: When HDD Error.

Step3. Select alarm type;

[Audible Warning]: Will trigger audio alarm if checked;

[Email Linkage]: Will send alarm Email if checked.

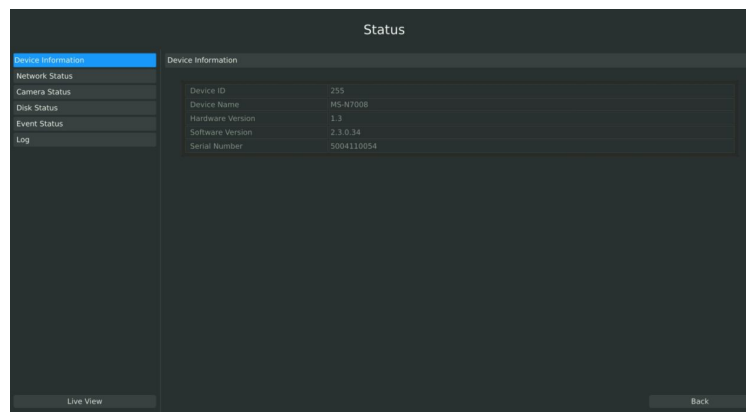
3.6 Status

You can have a quick view of the information of the device, network, camera, disk and event. This part is only for your rapid reference. If you want to make any configuration, please go to corresponding parts accordingly.

3.6.1 Device Information

Step: Enter Device information menu by clicking Main Menu→Status→Device Information

It will show you information in F-3.6.1, including: Device ID, Device Name, Hardware Version, Software Version, and Serial Number.

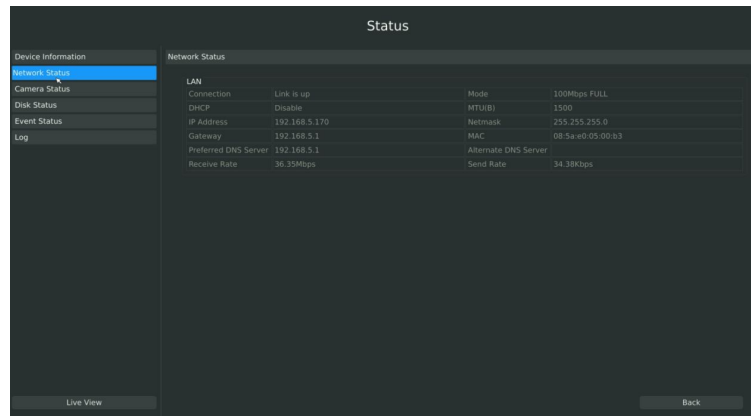


F-3.6.1

3.6.2 Network Status

Step: Enter Network Status menu by clicking Main Menu→Status→Network Status

It will show you information in F-3.6.2, including: Connection, Mode, DHCP, MTU(B), IP Address, Net mask, Gateway, MAC, Preferred DNS Server, Alternate DNS Server, Receive Rate, and Send Rate.

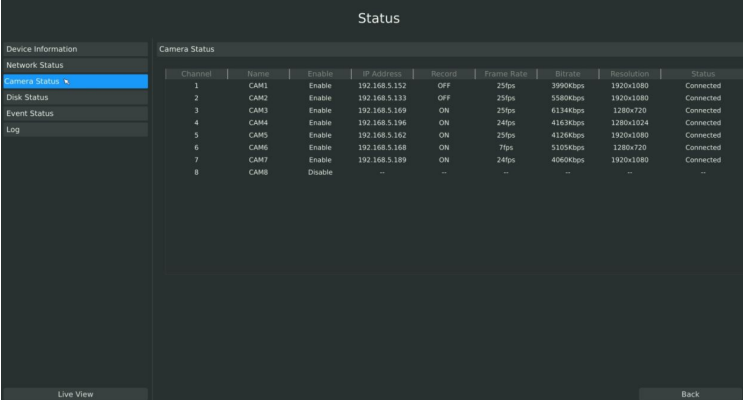


F-3.6.2

3.6.3 Camera Status

Step: Enter camera status menu by clicking Main Menu→Status→Camera Status

It will show you information in F-3.6.3, including: Channel, Name, Enable, IP Address, Record, Frame Rate, Bit rate, Resolution and Status.



The screenshot shows the 'Status' menu with 'Camera Status' selected. The left sidebar contains links for Device Information, Network Status, Camera Status, Disk Status, Event Status, and Log. The main area displays a table with the following camera information:

Channel	Name	Enable	IP Address	Record	Frame Rate	Bitrate	Resolution	Status
1	CAM1	Enable	192.168.5.152	OFF	25fps	2990Kbps	1920x1080	Connected
2	CAM2	Enable	192.168.5.133	OFF	25fps	1580Kbps	1920x1080	Connected
3	CAM3	Enable	192.168.5.169	ON	25fps	6134Kbps	1280x720	Connected
4	CAM4	Enable	192.168.5.196	ON	24fps	4163Kbps	1280x1024	Connected
5	CAM5	Enable	192.168.5.192	ON	25fps	4124Kbps	1920x1080	Connected
6	CAM6	Enable	192.168.5.168	ON	78ps	9104Kbps	1280x720	Connected
7	CAM7	Enable	192.168.5.189	ON	24fps	4060Kbps	1920x1080	Connected
8	CAM8	Disable	--	--	--	--	--	--

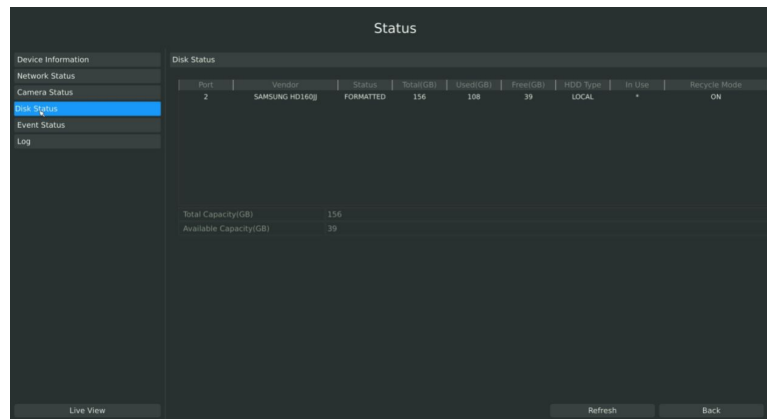
At the bottom, there are 'Live View' and 'Back' buttons.

F-3.6.3

3.6.4 Disk Status

Step: Enter disk status menu by clicking Main Menu→Status→Disk Status

It will show you information in F-3.6.4, including: Port, Vendor, Status, Total(GB), Free(GB), HDD Type, In Use, and Recycle Mode. You can see the Total Capacity (GB) and Available Capacity (GB) as below:



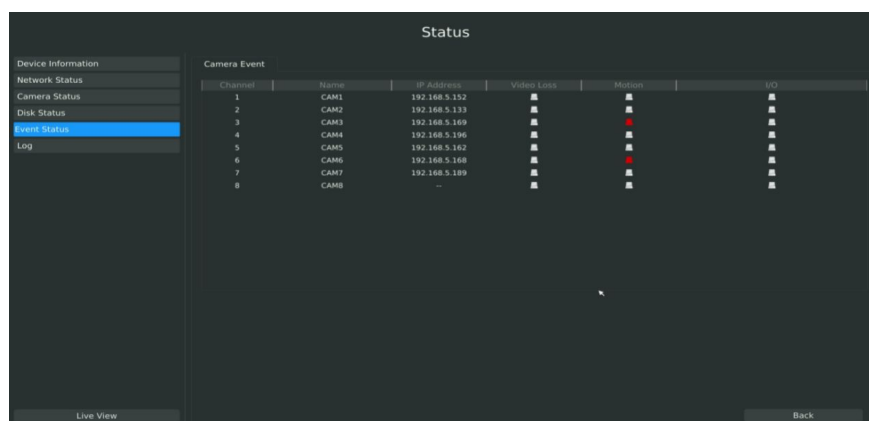
F-3.6.4

3.6.5 Event Status

3.6.5.1 Alarm Status

Step: Enter alarm page by clicking Main Menu→status→Event Status


It will show you the Alarm Input List in F-3.6.5.

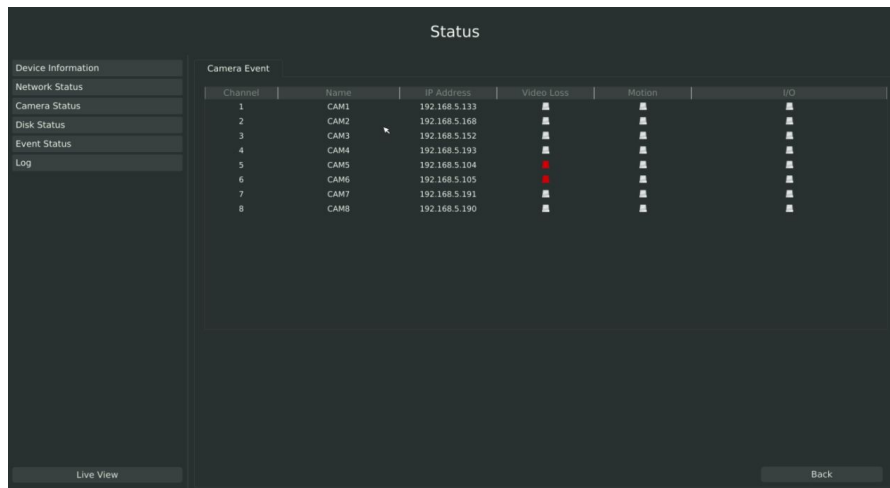


F-3.6.5

3.6.5.2 Camera Event Status

Step: Enter camera event page by clicking Main Menu→Status→Event Status.

It will show you the camera event status in F-3.6.6. If the  shows in red, it means the corresponding project is active.







F-3.6.6

3.7 Live View Settings

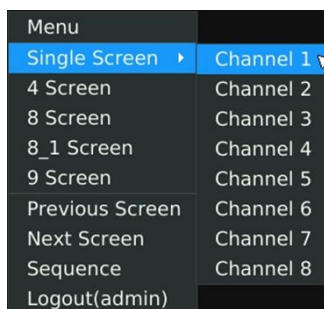
3.7.1 Live View

Watching a Live View

There are multiple icons on each channel displayed in live view mode, indicating the recording and alarm status of the channel.

Icons	Descriptions
	Indicates video loss
	Indicates motion detection alarm
	Indicates the current channel is recording. The recording may have been started manually, from a schedule, motion detection, alarm, and/or triggered from motion and alarm.
	Indicates exception alarm and recording.

Use the Right Button of the Mouse in Live View



F-3.7.1








Item	Description
Menu	Enter main menu
Single Screen	The channel chosen will spread the whole screen. You could also reveal this function by double clicking the channel.
Sub Screen Ctrl	Switch to sub screen to operate.
Previous Screen	Switch to the previous screen
Next Screen	Switch to the next screen
Sequence	Enable single/multi-screen cruise in live view mode
Sub Sequence	Enable single/multi-screen cruise in AUX live view mode
Logout	Click it to log out current user account.

Quick Operation for Live View

Enter the live view interface; left click the channel, the quick menu will appear. Quick menu operations include playback, recording manually, snapshot, PTZ, zoom, and image configuration.

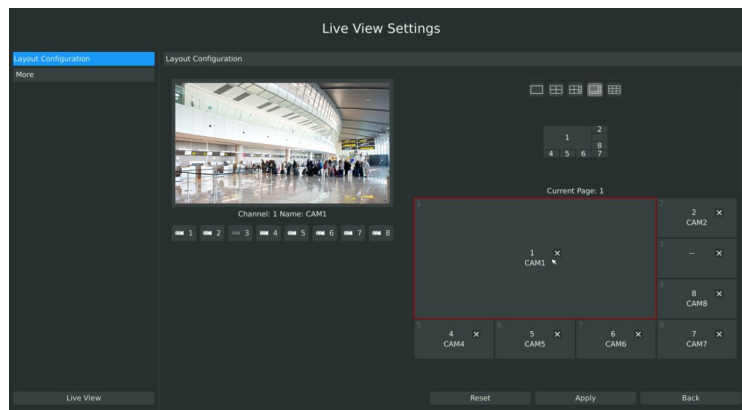
Quick Menu Instructions for Main Output Live View



Icon	Description	Icon	Description	Icon	description
	Manually recording		Image configure		PTZ Control
	Sound on/off		Digital zoom		Snapshot by manually
	Close				


3.7.2 Layout Configuration

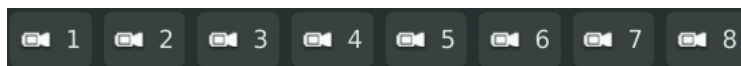
Step1. Enter layout configuration menu by clicking Main Menu → Live View → Layout configuration



F-3.7.2

You can choose single screen/4/ 8 /8-1/9 screens for layout configuration according to your needs and preferences.

Step2. Click  to close a channel, or click a desired channel (shown F-3.7.3) to add in and then click “Apply” to confirm settings. Click “Reset” to reset the layout.

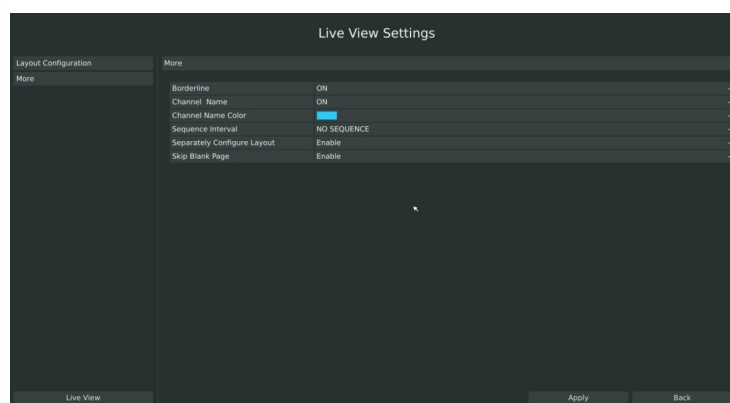


F-3.7.3

3.7.3 More Settings

Live View Parameters Settings

Step: Enter the more setting interface by clicking Main Menu→Live View→More



F-3.7.4

Item	Description
Borderline	Borderline ON/OFF
Channel Name	Display the channel name
Channel Name Color	To change the color of the channel name
Sequence Interval	Set sequence interval in live view mode

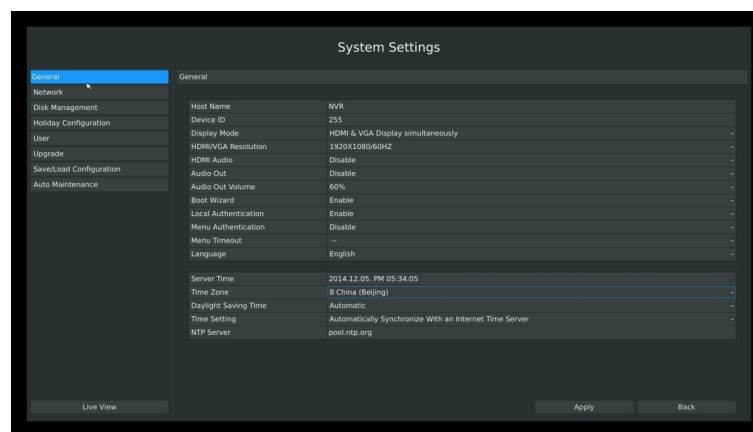
Separately Configure Layout	To configure channel order of all layouts respectively
Skip Blank Page	Skip blank page in sequence mode

3.8 System Settings

3.8.1 General Setting

Step: Enter general menu by clicking Main Menu→System Settings→General

To setup the general parameters of NVR, including modify the host name, device ID, select resolution, and set system time manually, etc.



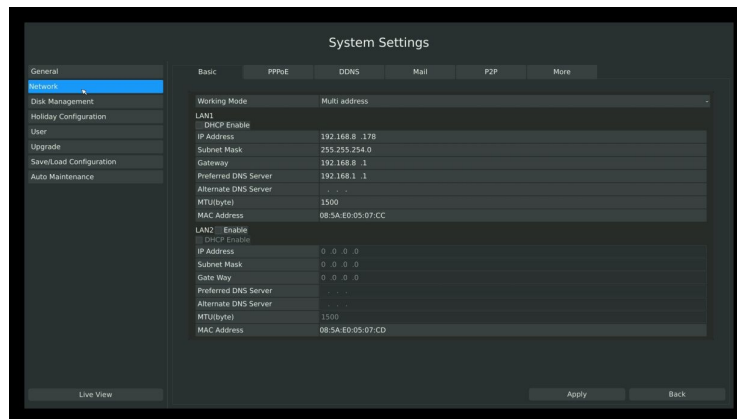
F-3.8.1

3.8.2 Network Settings

3.8.2.1 Basic Configuration

Step: Enter the network setting menu to set the network parameters by clicking Main Menu→System Settings→Network, select “Basic” page

Basic configuration includes working mode, IP address, subnet mask, gateway, MTU, DNS server, etc.



F-3.8.2

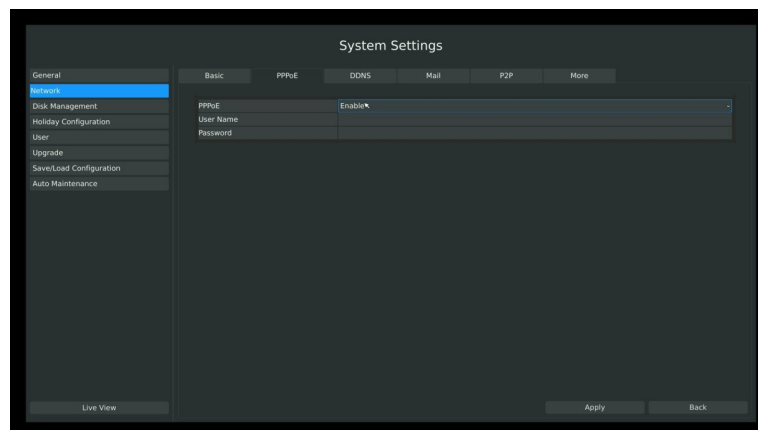
Note:

1. Check the DHCP check-box if there has a DHCP server running in networks.
2. The valid range of MTU is 500~9676.
3. Do not input an IP address conflict with another device.

3.8.2.2 PPPOE Configuration

Step: Enter PPPOE menu by clicking Main Menu → System Settings → Network. Select “PPPOE” page

Check the PPPoE check-box to enable the feature, and then input user name, password and confirm password for PPPoE access.



F-3.8.3

Note:

PPPoE user name and password can be obtained from your service provider. Once the setup is completed, a connected status will be shown.

3.8.2.3 DDNS Configuration

If your NVR is setup to use PPPoE to connect public network, you may need to use DDNS (Dynamic Domain Name System) to solve the problems from dynamic IP address.

Step: Enter DDNS configuration menu by clicking Main Menu → System Settings → Network,

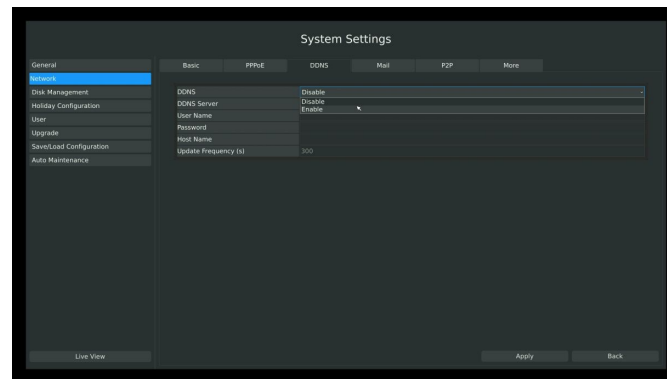
Select “DDNS” page

Check the DDNS check-box to enable the feature. Select “DDNS Server”, and input user name, password and host name, and then confirm.

Click [Apply] for application.

Note:

“host name” can use letters, figures and hyphen (-) and must begin with letters.

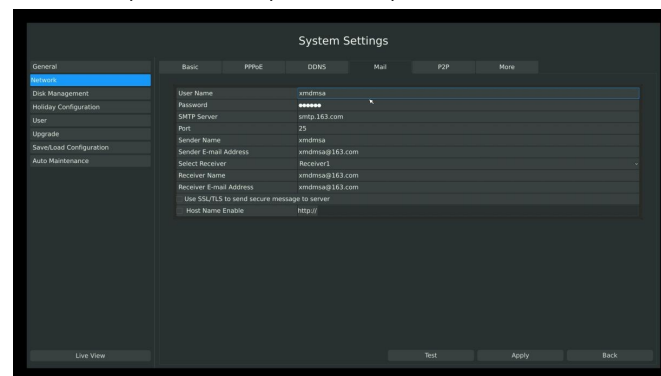


F-3.8.4

3.8.2.4 MAIL Configuration

Step: Enter Mail configuration page by clicking Main Menu→System Settings→Network→Mail

Set the Sender E-mail Address, User Name, Password, and SMTP Server:



F-3.8.5

[User name]: The E-mail address you choose to send emails.

[Password]: The password of the E-mail.

[SMTP Server]: The SMTP Server of your E-mail.

[Port]: The port of SMTP Server, it's usually 25.

[Sender Name]: Named by yourself for the Sender E-mail.

[Sender E-mail Address]: It must be same with [User name].

[Select Receiver]: You can have 3 receivers once.

[Receiver Name]: Named by yourself for the Receiver E-mail.

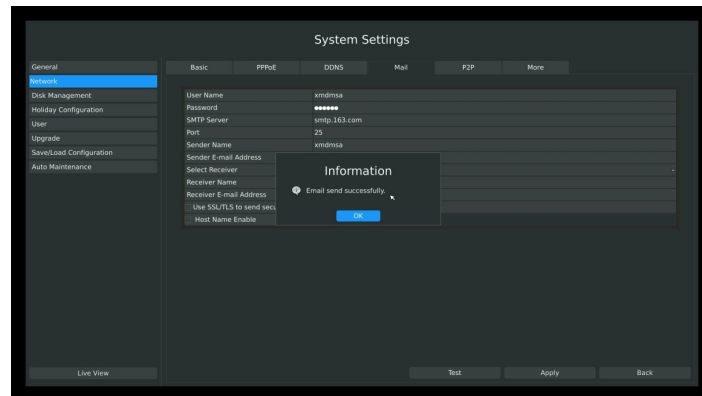
[Receiver E-mail Address]: E-mail Address for the receivers.

[Enable SSL/TLS]: Security Protocol of email sending.

[Host Name Enable]: For attaching URL when sending emails. Please enable SSL/TLS according to

actual mailbox. (Some SMTP server needs to secure connection)

Select **[Test]** to check if the Mail function is workable



F-3.8.6

Note:

1. You will get a screenshot every time for motion detection email sending;
2. If you use a port forward IP of NVR for the Host Name, please type the entire address including the port;
3. If click the URL in the alarm emails within 10 minutes, you can visit NVR Web GUI without login.

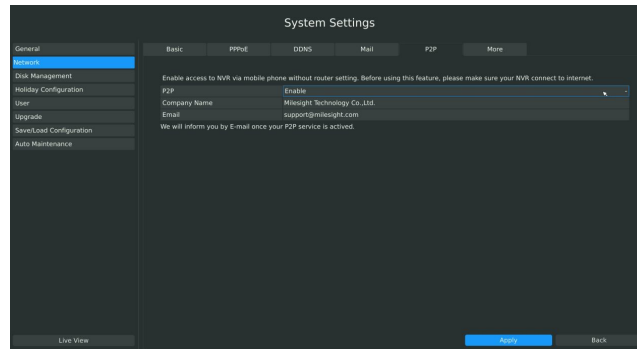


F-3.8.7

3.8.2.5 P2P

You can use M-VMS to watch the remote live view by P2P. With the introduction of P2P, you can watch the NVR Live view from WAN without do any port forwarding on the router.

Right click on the live view and choose **Menu→System→Network→P2P**, you will see the image like bellow:



F-3.8.8

Step1. Choose “Enable” from the drop-down list of “P2P”;

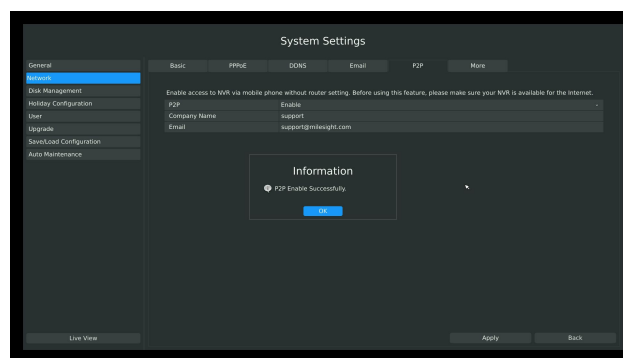
Step2. Fill in your Company Name or your Individual Name in the “Company Name”;

Step3. Fill in your Email address in the “Email” for active;

Step4. Apply the settings.

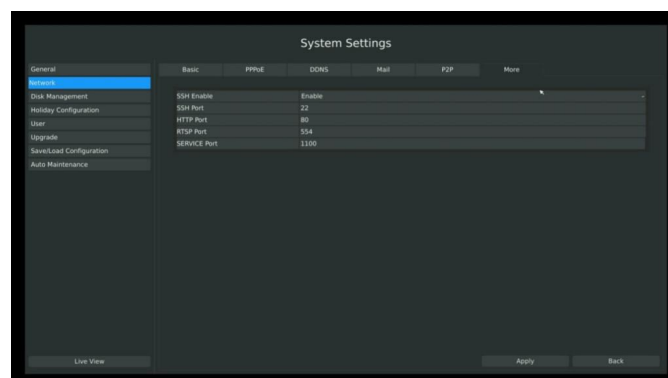
Note:

Activation works as soon as the page shows “Save Successfully” as the following picture. It is no need to contact Milesight to activate again.



3.8.2.6 More

Step: Enter More configuration page by clicking Main Menu → System Settings → Network → More



F-3.8.9

SSH Port Setting

Secure Shell (SSH) has many functions; it can replace Telnet and also provides a secure channel for FTP, POP, even for PPP.

Note:

The default SSH port is 22.

HTTP Port Setting

The default HTTP port is 80. Please modify HTTP ports according to actual application.

Note:

- 1. The default HTTP port for IE browser is 80.**
- 2. HTTP port is used for remote network access.**

RTSP Port Setting

Real Time Streaming Protocol (RTSP) is an application layer protocol in TCP/IP protocol system. The default RTSP port is 554. Please modify RTSP port according to actual application.

Note:

- 1. RTSP port is used for remote network live view.**
- 2. RTSP port valid range is 554 or 1024~65535.**

Service Port Setting

Service port is used to remote access when add NVR by mobile device.

The default RTSP port is 1100. Please modify RTSP port according to actual application.

Note:

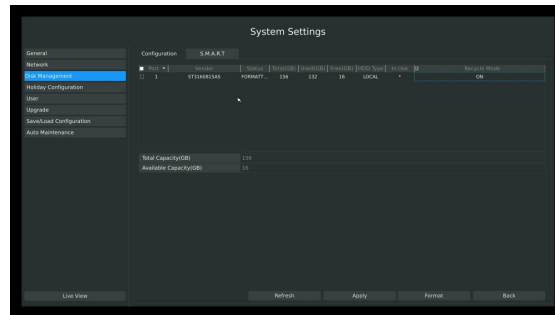
- 1. You can add this port when using P2P/port mapping/LAN IP to add NVR.**
- 2. When port mapping, you still need map 554 to 554. Only then you can use 1100 to watch the live view by remote WAN.**

3.8.3 Disk Management

3.8.3.1 Disk Configuration

Step: Enter disk configuration menu by clicking Main Menu → System Settings → Disk Management→Configuration

Configuration page contains the basic information of the disk, see F-3.8.8. Select a disk and click **[Format]** to format the disk.



F-3.8.10

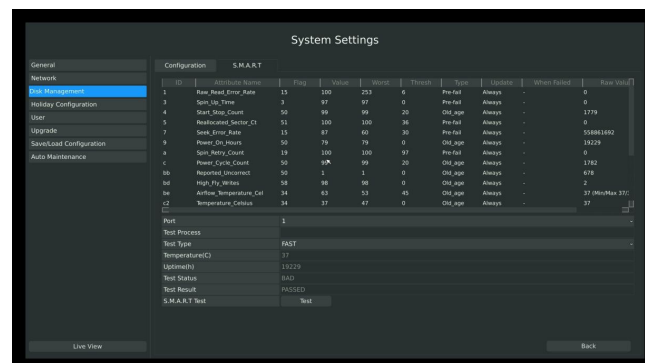
3.8.3.2 S.M.A.R.T Detection

Step: Enter S.M.A.R.T configure page by clicking Main Menu → System Settings → Disk Management → S.M.A.R.T

S.M.A.R.T detection is a monitoring system of HDD that detects and reports on various indicators of anticipating failures of HDD.

You can command S.M.A.R.T self-checking function to check the HDD status.

Select “Test type”, and click “apply” for S.M.A.R.T detection.



F-3.8.11

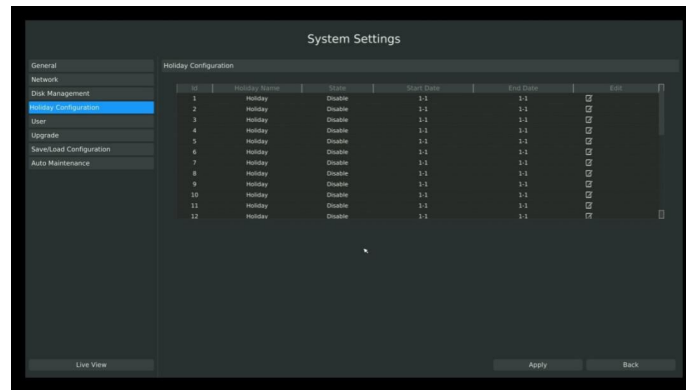
Note:

1. Test type has [fast] and [full] options.
2. Test Status can be [status good], [status bad] and [bad tracks exist].
3. Test result can be [passed] or [failed].

3.8.4 Holiday Configuration


It can configure the record or image capture schedule for holidays of the current year.

Step1. Enter holiday setting menu by clicking System Setting → Holiday Configuration.



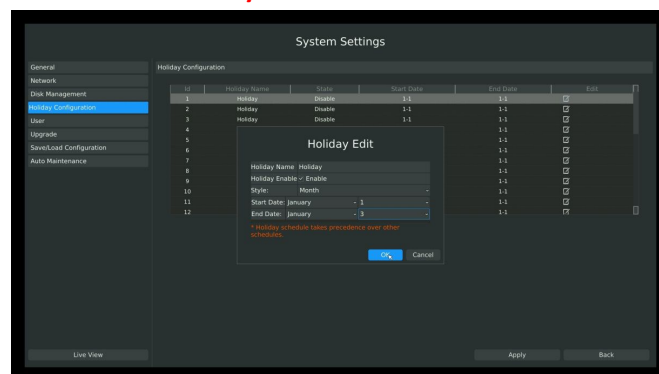
F-3.8.12

Step2. Edit the holiday schedule.

Click  to open holiday configuration page to modify holiday name, check the 'Holiday Enable' check-box, and then select [style] to setup Start/End date. Then click [OK] to save the configuration and return to holiday configuration page. Click [Apply] to confirm settings.

Note:

There are Month, Week and Date in "Style" mode.



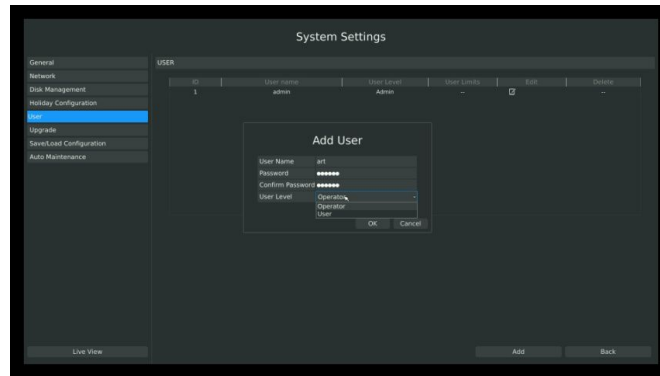
F-3.8.13

3.8.5 User Account Settings

Add New User

Step1. Enter user setting menu by clicking Main Menu→System Settings→User.

Click [Add] to enter add user menu, input information for the new user, select user level and click [OK].



F-3.8.14

Note:

1. If the NVR firmware version out of the factory is xx.7.0.6 or above, the default user name is "admin" and the default password is "ms1234";
2. If the NVR firmware is upgraded to xx.7.0.6 or above from a lower version, the default password will turn to "ms1234" after a reset, or it will keep the old default password "123456";
3. If the NVR firmware version is below xx.7.0.6, the default user name is "admin" and the default password is "123465".

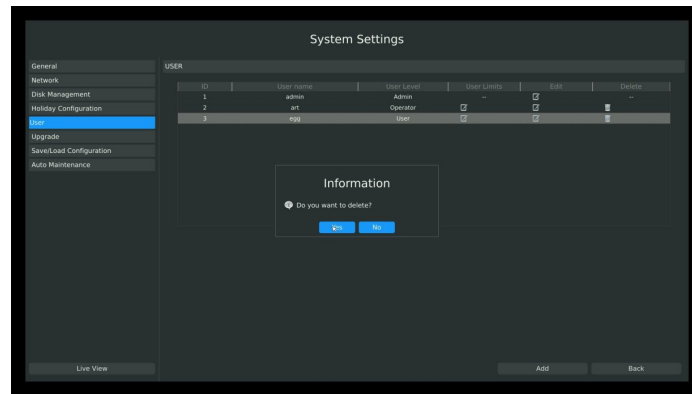
Step2. Set user privileges

Select the user that has been added and click [limit] button to enter user privilege menu.



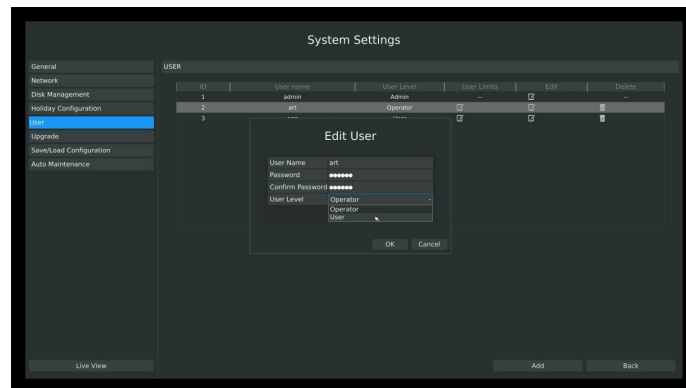
F-3.8.15

Step3. Click  to delete a user.



F-3.8.16

Step4. Click  to edit a user.

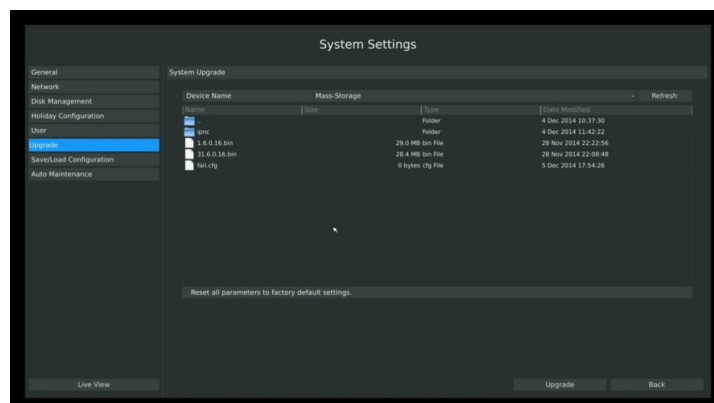


F-3.8.17

3.8.6 Upgrade

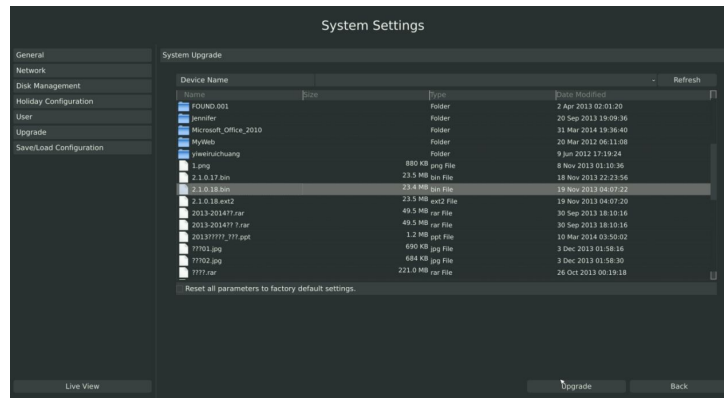
Your NVR supports firmware upgrade.

Step1. Enter upgrade menu by clicking Main Menu→System Settings→Upgrade.



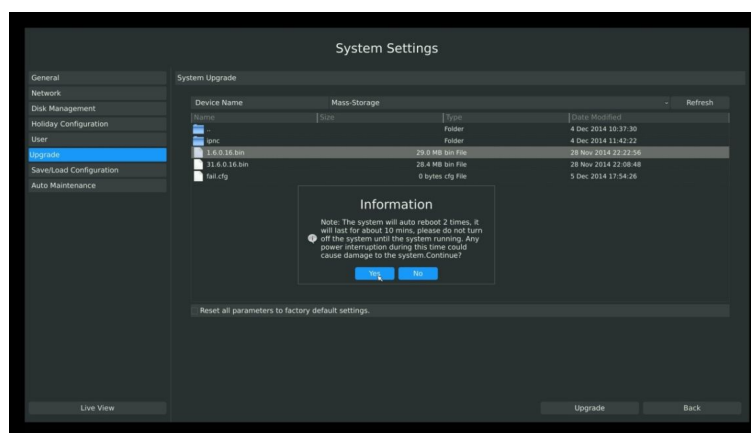
F-3.8.18

Step2. Search for device, and select the .bin file.



F-3.8.19

Step3. Click [Upgrade] button to confirm the upgrade.



F-3.8.20

Note:

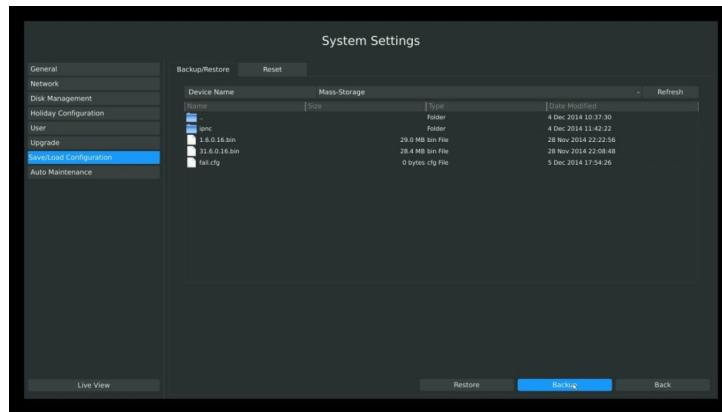
The system will auto reboot after confirming upgrade.

3.8.7 Save/Load Configuration

3.8.7.1 Backup/Restore

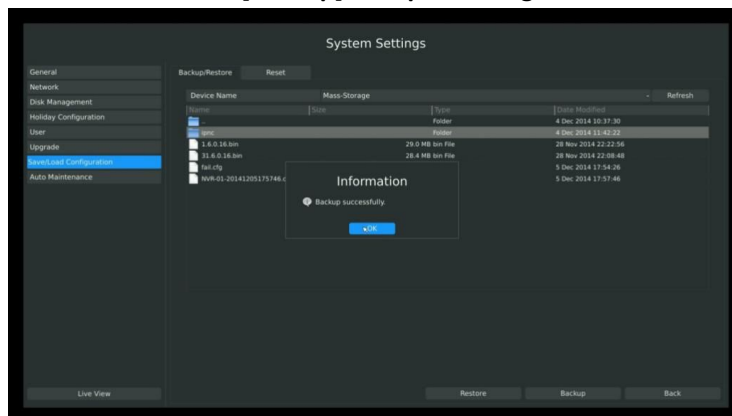
Your NVR supports backup and restore configuration.

Step1: Enter profile menu by clicking Main Menu → System → Save/Load Configuration → Backup/Restore.



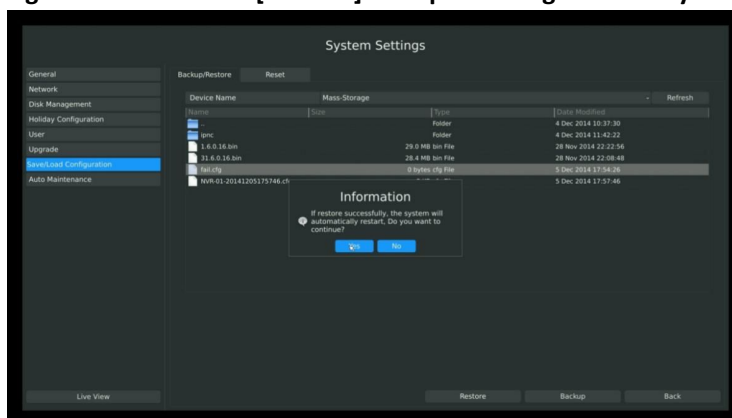
F-3.8.21

Step2. Select a folder and then click [Backup] to export configuration to USB device.



F-3.8.22

Step3. Select a .cfg file and then click [Restore] to import configuration to your NVR.

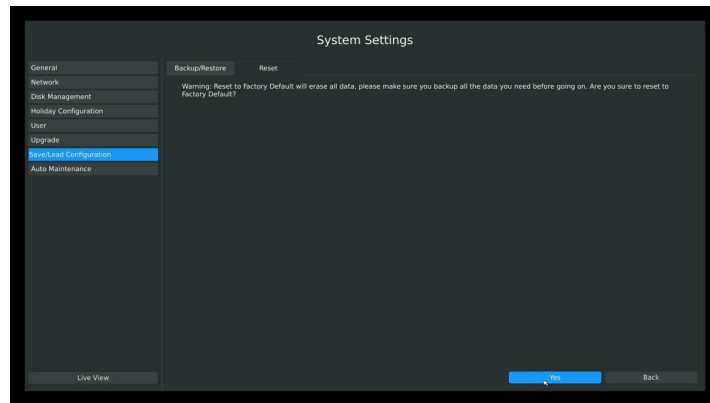


F-3.8.23

3.8.7.2 Reset

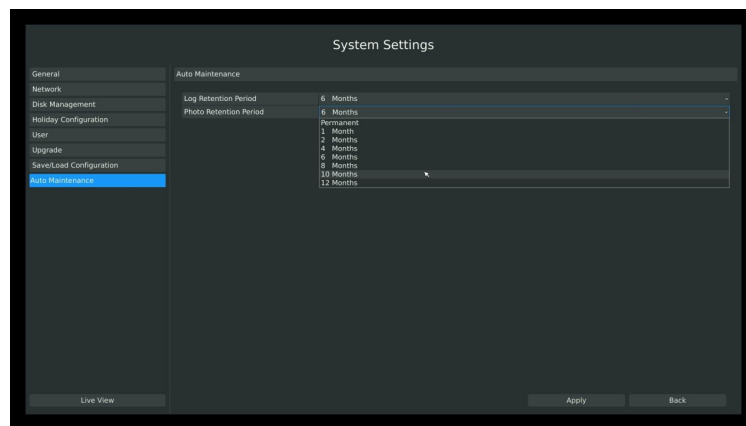
You can reset all parameters to default settings.

Enter reset menu by clicking **Main Menu**→**System**→**Save/Load Configuration**→**Reset**. Click “yes” to confirm reset.



F-3.8.24

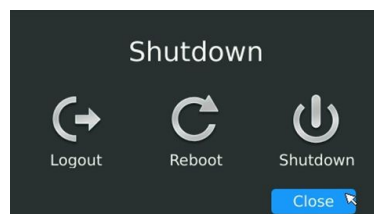
3.8.8 Auto Maintenance



F-3.8.25

You can set the Log and Photo Retention period for Log and Photo. Once it is expired, it will automatically delete by NVR. The retention period is ranged from 1 to 12 months, if you don't want those files to be deleted, you can select Permanent.

3.9 Shutdown



F-3.9.1

3.9.1 Logout

Click [**Logout**] to exit the current logon account.

3.9.2 Reboot

Click [**Reboot**] to restart the NVR.

3.9.3 Shutdown

Click [**Shutdown**] to close the NVR.

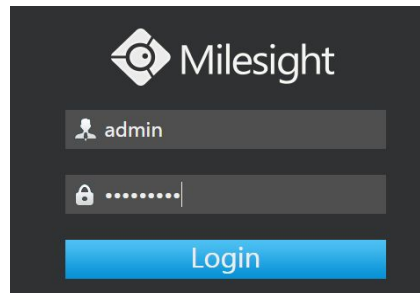
3.9.4 Close

Click [**Close**] to exit.

4. WEB Settings

4.1 Login

Input the user name and password.



F-4.1.1



Note:

1. If the NVR firmware version out of the factory is xx.7.0.6 or above, the default user name is "admin" and the default password is "ms1234";
2. If the NVR firmware is upgraded to xx.7.0.6 or above from a lower version, the default password will turn to "ms1234" after a reset, or it will keep the old default password "123456";
3. If the NVR firmware version is below xx.7.0.6, the default user name is "admin" and the default password is "123465".



4.2 Live View

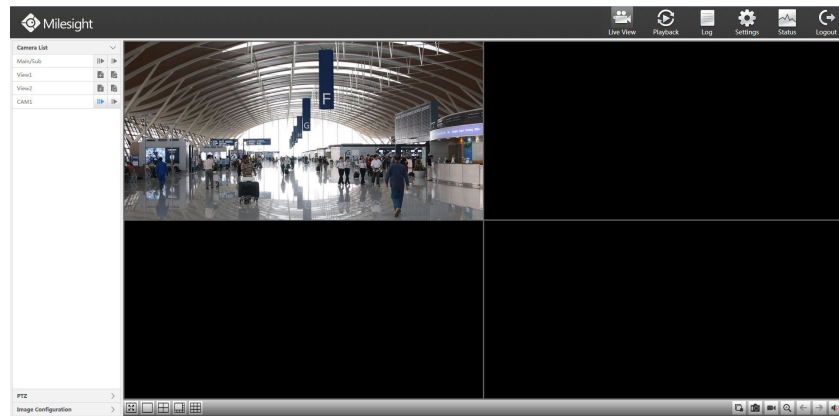
4.2.1 Camera List

There are multiple icons on each channel displayed in live view mode, indicating the recording and alarm status of the channel.

Icons	Descriptions
	Indicates video loss
	Indicates motion detection alarm

Step1: Enter Live View by clicking one window, and go for camera list.












Click  to show the main stream and click  to the sub stream.



F-4.1.2

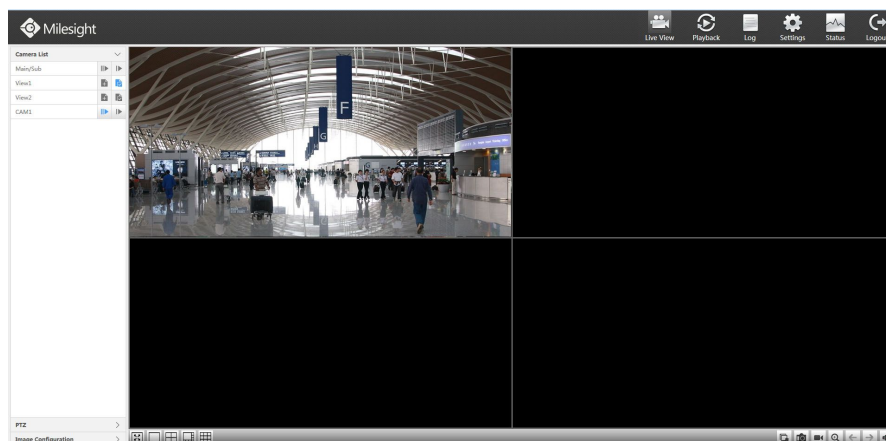
Quick Operation



Icon	Description	Icon	Description	Icon	description
	Stop All Live View		Start All Live View		Snapshot by manually
	Front Page		Next Page		Sound off/on
	Full Screen		Window 1		Window 4
	Window 8		Window 9		

4.2.2 Play View

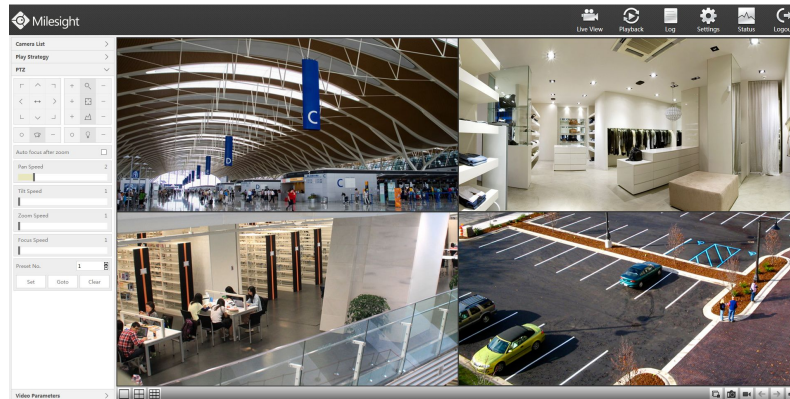
Enter the live view interface; click Live View→Camera List. Choose the View1 or View2 to play;



F-4.1.3

4.2.3 PTZ

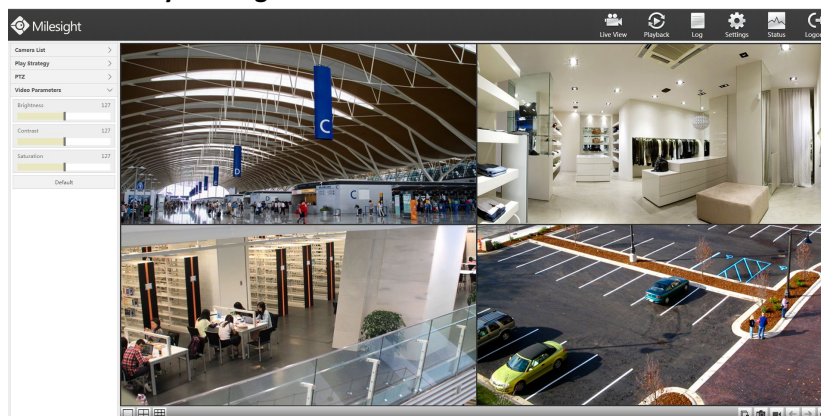
Enter Camera List interface by clicking Live View→PTZ



F-4.1.4

4.2.4 Video Parameters

Enter Video Parameters by clicking Live View→Video Parameters



F-4.1.5

4.3 Playback

To play and backup the recorded files in specified time period.

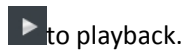
4.3.1 Playback

It can support playback according to recorded time. Play recorded files in specified time period.

Step1. Enter Video Playback Interface shown in F-4.3.1 by clicking Playback→.

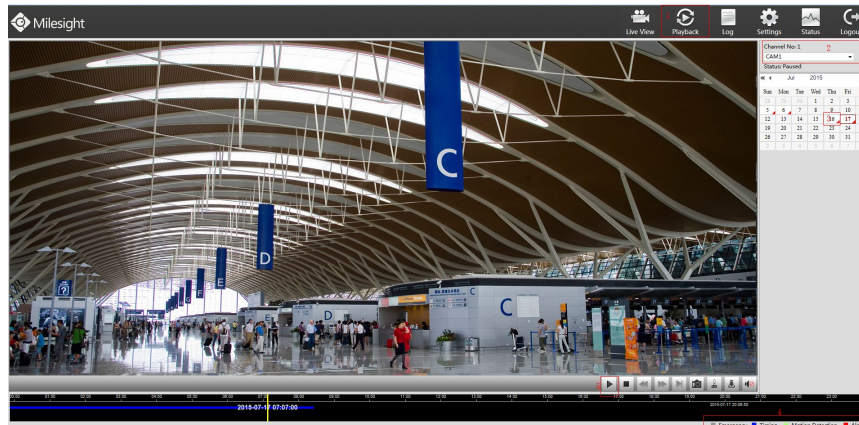
Step2. Select a desired channel and date.

Select playback layout and channel. Click the date in red when there are recorded files of the selected channels, the record type with recording data will be show as below, and then click



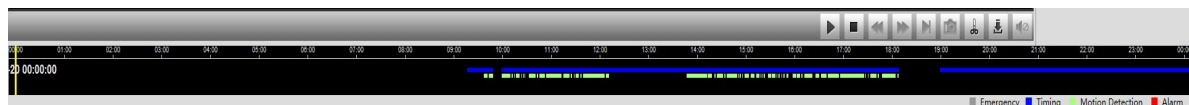
Note:

The day in red has recording files; please select the date in red to playback.



F-4.3.1
















Video Playback Tool Bar Description



The tool bar can display multi-event record. It shows that in this record period what kind of event has happened. The symbolic meaning of each color is shown bellow:

Blue—Timing Green --- Motion
Red --- Alarm Black --- Emergency

And take this bar above as an example, it means in this recording period there are motion and timing event which have triggered.

Button	Description	Button	Description	Button	Description	Button	Description
	Rewind		Stop		Play		Pause
	Reverse Step		Forward Step		Fast Backward		Fast Forward
	Timeline Cutting		Timeline Cut Off		Audio On		Audio Off
	Snapshot		Timeline		Playback Position		

4.3.2 Video Files Backup

Recorded files can be cut and backed up from WEB.

Step1. Enter playback interface, select the date and time to playback

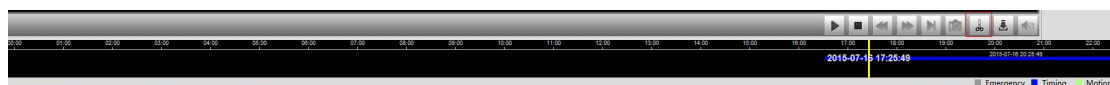




F-4.3.2

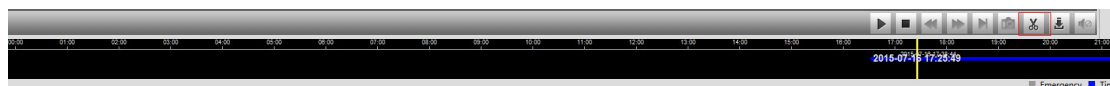
Step2. Select Recorded files for Backup.

Select the channel and date you want to backup, then select the start time at time line and click

, it will change into  which means cut begins.



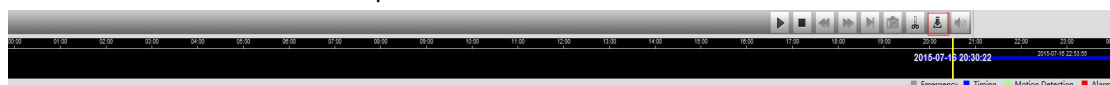
Select the end time at time line and click , it will change into , which means cut ends.



Then backup files can be found the files path set before.

Step3. Backup the files

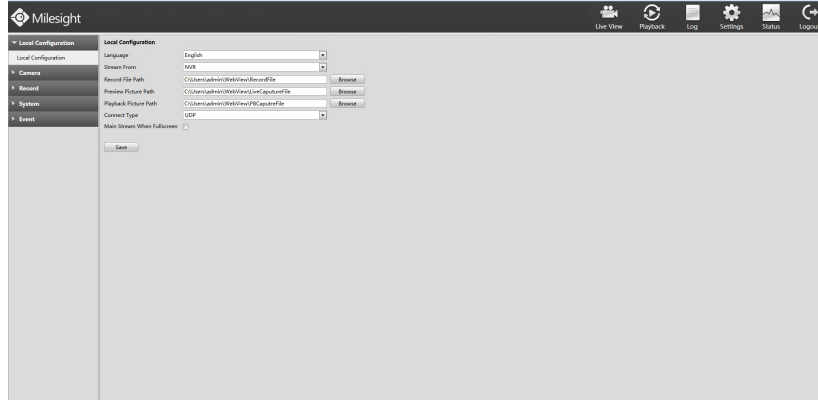
Click the button and choose the path to save the file



4.3.3 Picture Files Backup

Step1. Enter record files path settings interface by clicking Settings→Local Configuration

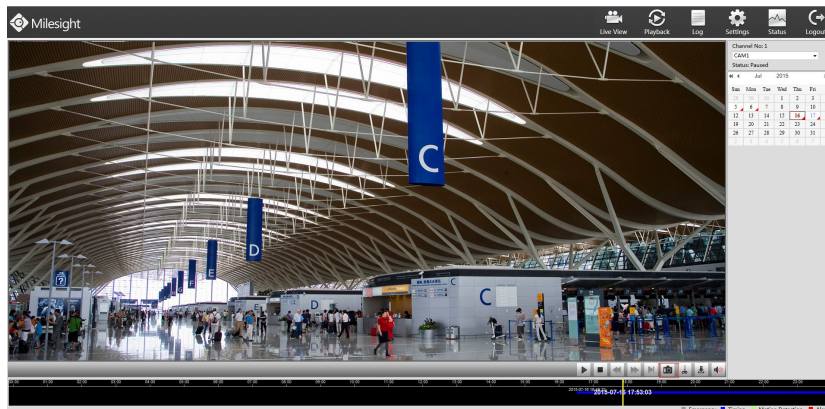
Choose Playback Picture Path.



F-4.3.3

Step2. Pause first when you want backup a special scene during video playback.


Step3. Click  to save picture. Then backup picture can be found the files path set before.

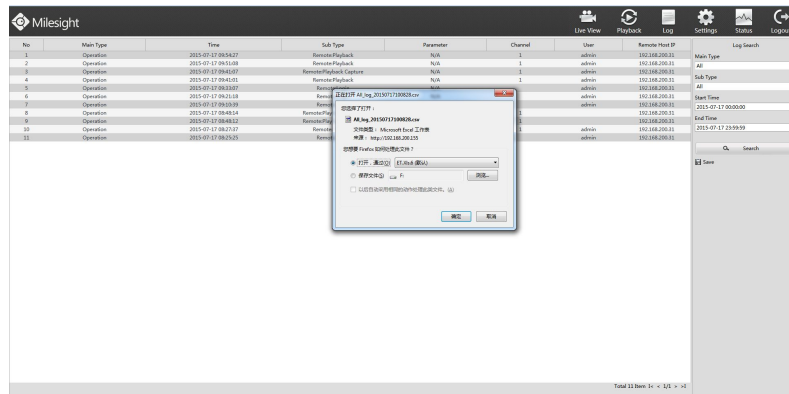


F-4.3.4

4.4 Log

Select special period and type logs by Search tools. You can save the logs locally if it is necessary.

Step: Enter Log menu by clicking Log→Main Type→Sub Type→Start Time→End Time→Search→ Save

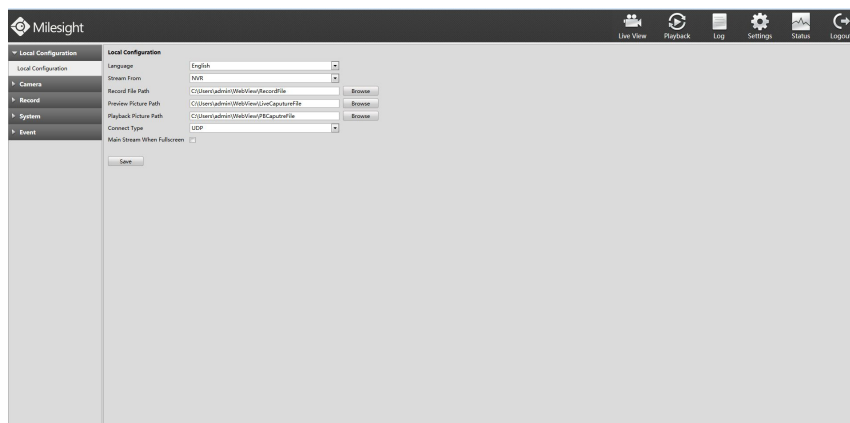


F-4.4.1

4.5 Settings

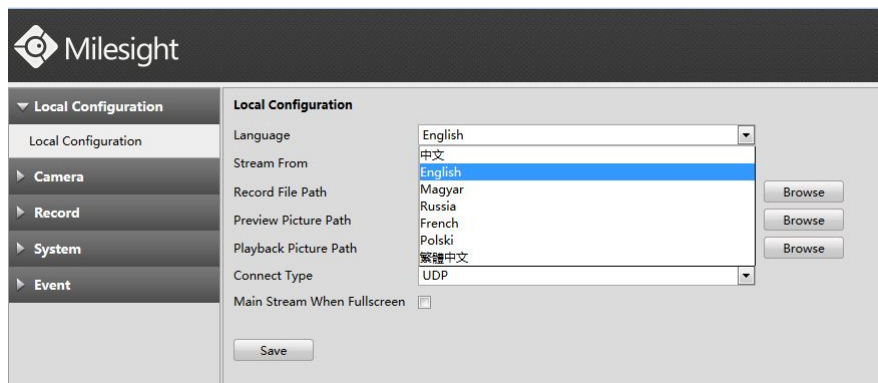
4.5.1 Local Configuration

Step1. Enter Local Configuration interface by clicking Settings→Local Configuration.



F-4.5.1

Step2. Choose Languages.



F-4.5.2

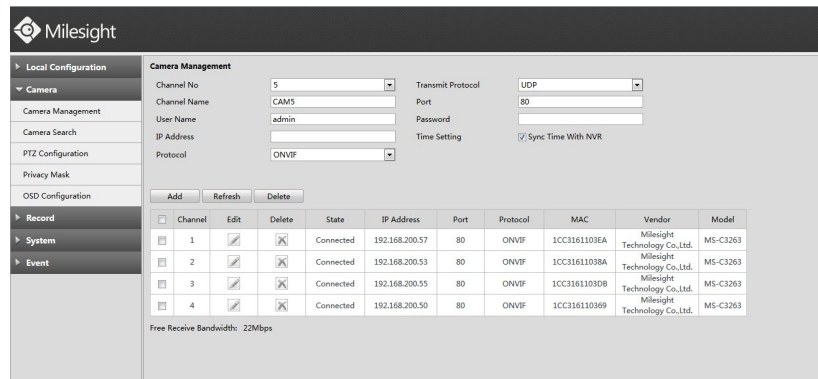
Step3. Set paths then save configurations.

4.5.2 Camera

Before configuration, please ensure that the IP device is connected to the same network as your NVR and that the network setting for your NVR is properly setup.

4.5.2.1 Camera Management

Step1. Enter Local Configuration interface by clicking Settings→Camera.

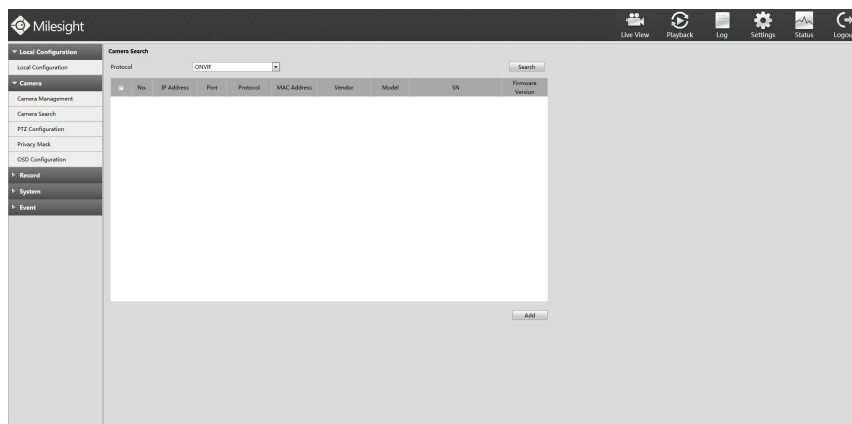


F-4.5.3

Step2. Add IP Channel.

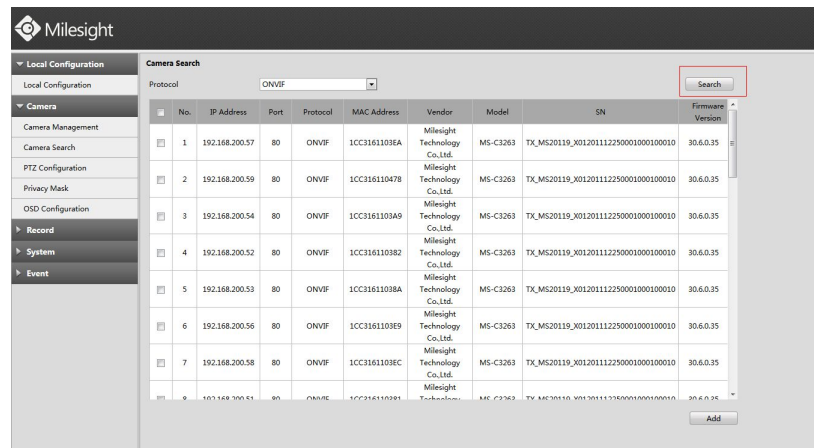
Method1. Add IP Channel in camera search interface

1. Enter camera search interface by clicking Settings→Camera→Camera Search.



F-4.5.4

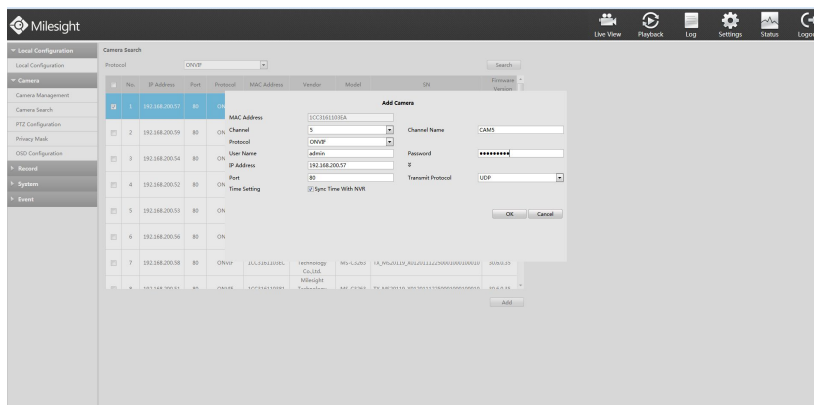
2. Click [Search] button to quickly search the IP devices that support ONVIF at the same network segment with NVR.



F-4.5.5

3. Click the channel, click [Add] button, input password and click [OK] button to finish or click [Cancel] button to cancel.

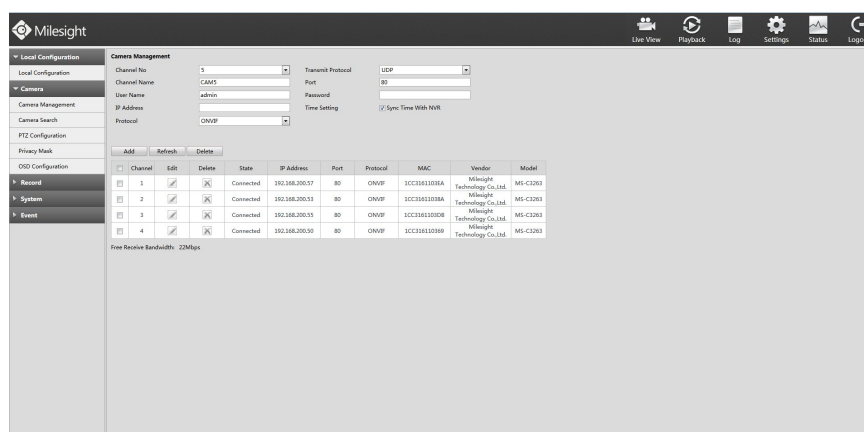
4. Or Check ☒ to bulk adding the IP cameras if they are with same password.



F-4.5.6

Method2. Add IP Channel in camera management interface

1. Enter camera management menu by clicking Settings→Camera→Camera Management



F-4.5.7

2. Select the attribute page of 'IP Channel', select idle channel then input complete information Click [Add] button.

There are three protocols available for camera connection:

1. ONVIF: Add the camera with ONVIF protocol, you can add any IP cameras with ONVIF compatible if select this

protocol. The detail formats are shown in F-4.5.8;

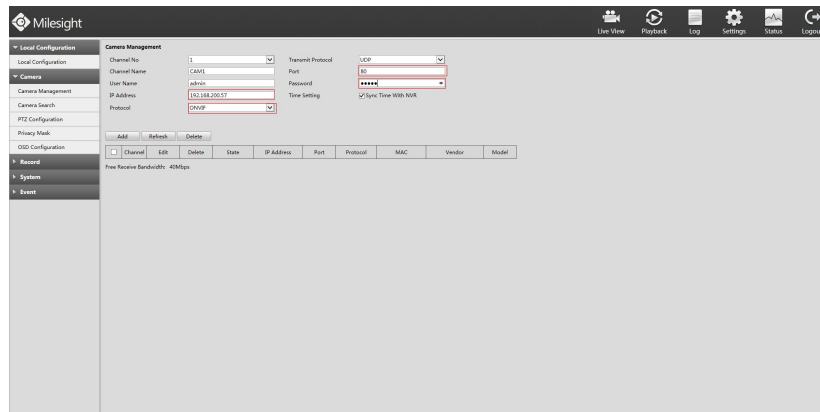
2. RTSP: Use RTSP to add camera. You can add any IP cameras which have RTSP protocol streams.

You need select 554 for the port and input the resource path for the camera. Take Milesight device as an example, for main stream the resource path is “rtsp://IP:port/main” and the second stream is “rtsp://IP:port/sub”.

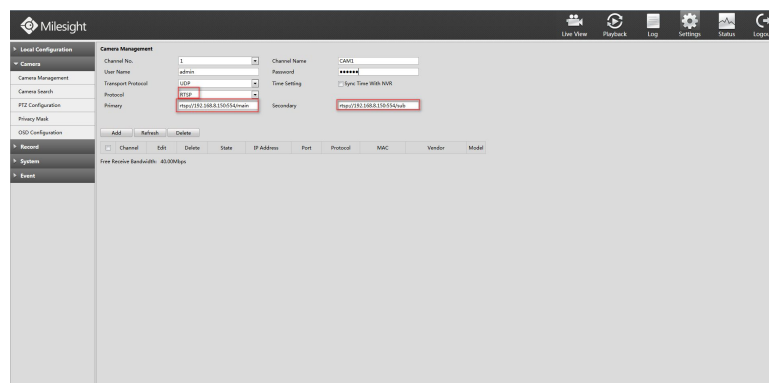
The details about adding format are shown in F-4.5.9;

3. MILEIGHT: If your IP camera is a Milesight device you can select this protocol to add cameras in the same LAN.

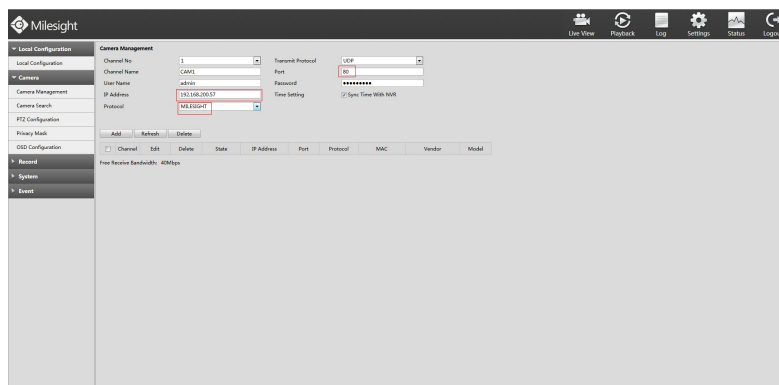
The detail formats are shown in F-4.5.10;



F-4.5.8



F-4.5.9



F-4.5.10

Step3. Check the connection status.

After adding the IP channels, click [Refresh] button, the [status] will show [connected] as below, If not, you need to check if the network is connected or whether the user name, password is correct or not.

Add Refresh Delete										
<input type="checkbox"/>	Channel	Edit	Delete	State	IP Address	Port	Protocol	MAC	Vendor	Model
<input type="checkbox"/>	1			Connected	192.168.200.55	80	ONVIF	1CC3161103DB	Milesight Technology Co.,Ltd.	MS-C3263
<input type="checkbox"/>	2			Connected	192.168.200.53	80	ONVIF	1CC31611038A	Milesight Technology Co.,Ltd.	MS-C3263
<input type="checkbox"/>	3			Connected	192.168.200.57	80	ONVIF	1CC3161103EA	Milesight Technology Co.,Ltd.	MS-C3263
<input type="checkbox"/>	4			Connected	192.168.200.50	80	ONVIF	1CC316110369	Milesight Technology Co.,Ltd.	MS-C3263

F-4.5.11

Step4. Configure IP Channel

After successfully adding the channel, click to re-edit the channel info, address, and password, etc.

Camera Edit

Settings

Parameters

Channel No

1

Transmit Protocol

UDP

Channel Name

CAM1

Port

80

User Name

admin

Password

•••••

IP Address

192.168.200.55

Time Setting

☐ Sync Time With NVR

Protocol

ONVIF

OK

Cancel

F-4.5.12

Select [Parameters] page to re-edit this channel parameters. Click [Save] to save the configuration

Camera Edit

Settings

Parameters

Channel Name

CAM1

Enable Sub Stream

Enable

Frame Rate

25

Frame Rate

25

Resolution

1920*1080

Resolution

640*360

Bitrate

4096

Bitrate

512

OK

Cancel

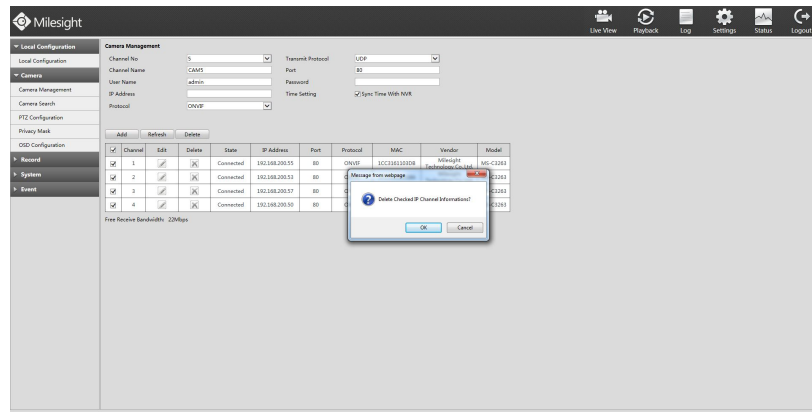
F-4.5.13

You can delete this channel by clicking , or you can select multiple devices and then click to delete.

<input type="checkbox"/>	Channel	Edit	Delete	State	IP Address	Port	Protocol	MAC	Vendor	Model
<input type="checkbox"/>	1			Connected	192.168.200.55	80	ONVIF	1CC3161103DB	Milesight Technology Co.,Ltd.	MS-C3263
<input type="checkbox"/>	2			Connected	192.168.200.53	80	ONVIF	1CC31611038A	Milesight Technology Co.,Ltd.	MS-C3263
<input type="checkbox"/>	3			Connected	192.168.200.57	80	ONVIF	1CC3161103EA	Milesight Technology Co.,Ltd.	MS-C3263
<input type="checkbox"/>	4			Connected	192.168.200.50	80	ONVIF	1CC316110369	Milesight Technology Co.,Ltd.	MS-C3263

Note:

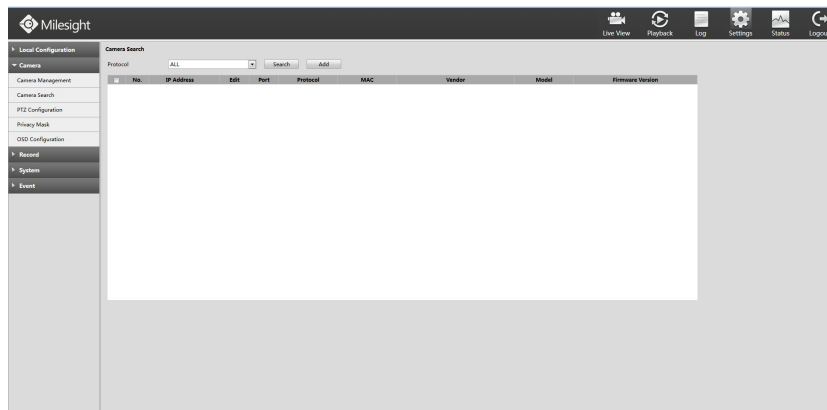
The user name and password entered here are the default user name and password. The management port is 80 and the default Transport protocol is UDP.



F-4.5.14

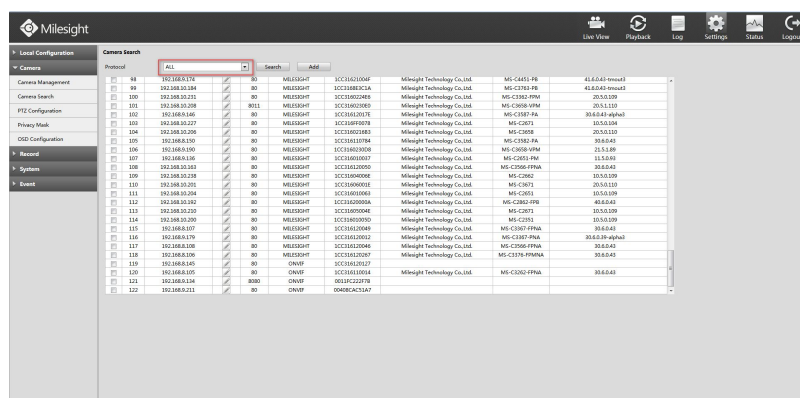
4.5.2.2 Camera Search

Step1. Enter camera search interface by clicking Settings→Camera→Camera Search.



F-4.5.15

Step2. Choose [All], then click [search] to quickly search the IP devices that support ONVIF at the same LAN with NVR; switch Protocol into [ONVIF] to search the IP devices that support ONVIF at the same network segment with NVR, or switch Protocol into [MILESIGHT] to search the IP devices that support MILESIGHT at the same LAN with NVR.

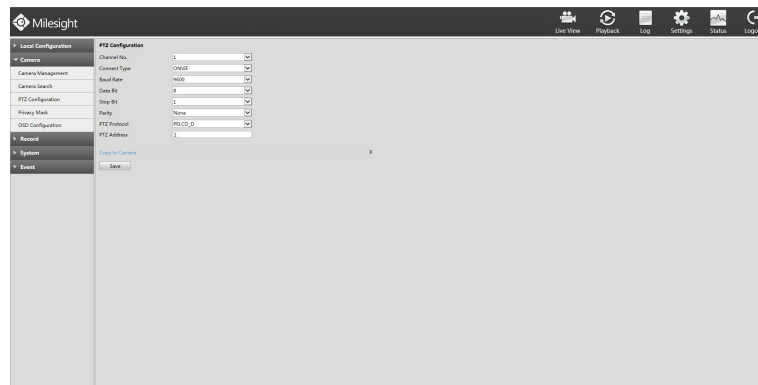


F-4.5.16

☒

Step: Enter configuration interface by clicking Settings→Camera→PTZ Configuration

channels.



F-4.5.20

Note:

1. The PTZ protocol and address of IP channel must be consistent with those of the PTZ decoder.
2. Settings for a PTZ camera must be configured before it can be used. Make sure that the PTZ and RS-485 of the NVR are connected properly.

4.5.2.4 Privacy Mask

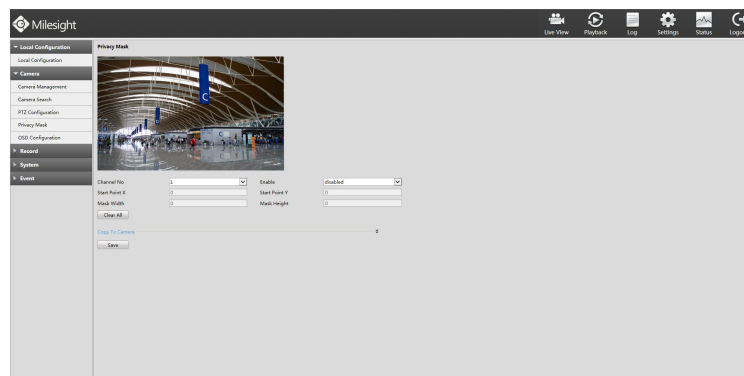
Milesight NVR support privacy mask. It is used to cover some privacy area which is not proper to appear on monitor.

You can add a privacy mask by following steps:

Step1. Enter configuration interface by clicking Settings→Camera→Privacy Mask.

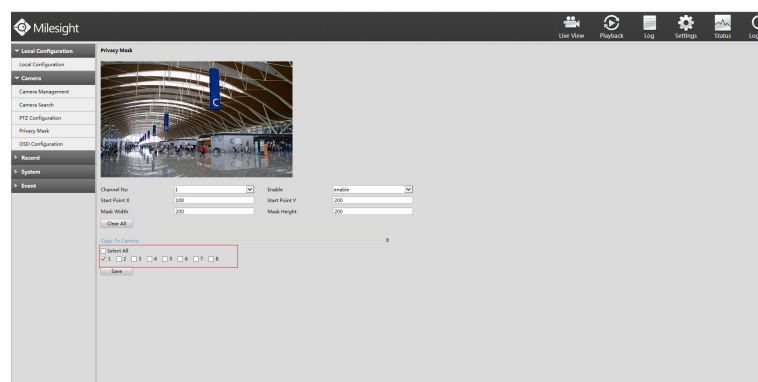
Step2. Select channel and switch to [enable] option.

Step3. Enter numbers or draw areas to set the area to cover.



F-4.5.21

Step4. You can click [Copy] to copy the same configuration to other channels.



F-4.5.22

Step5. Select “Save” to save the settings.

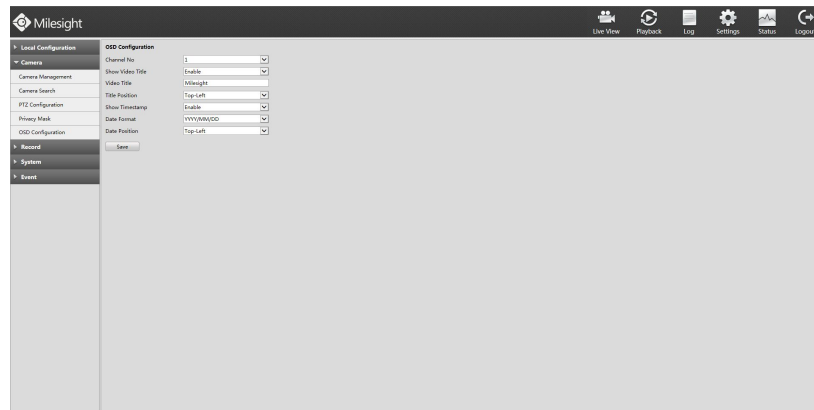
Note:

[Start Point X] and [Start Point Y] decide the point of the area starts, [Mask Width] and [Mask Height] decide the size of the area.

4.5.2.5 OSD Configuration

You can set OSD (On Screen Display) on NVR, and the OSD will be synchronized on IPC.

Entering OSD Configuration interface by clicking: Settings→Camera→OSD Configuration.



F-4.5.23

Select channel and finish the info and save.

[Video Title]: Set the video title for the channel;

[Title Position]: Set the position for the video title: Top-Left or Top-Right;

[Date Position]: Set the position for the date: Top-Left, Top-Right, Bottom-Left or Bottom-Right;

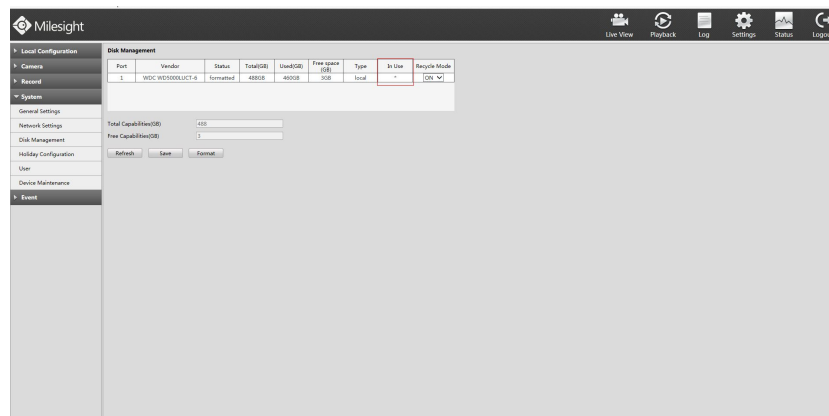
[Date Format]: Set format for date: YYYY-MM-DD, MM/DD/YY or DD/MM/YYYY.

4.5.3 Record

Preparation for Configuration

Step1. Ensure your NVR has Install and initialize the HDD.

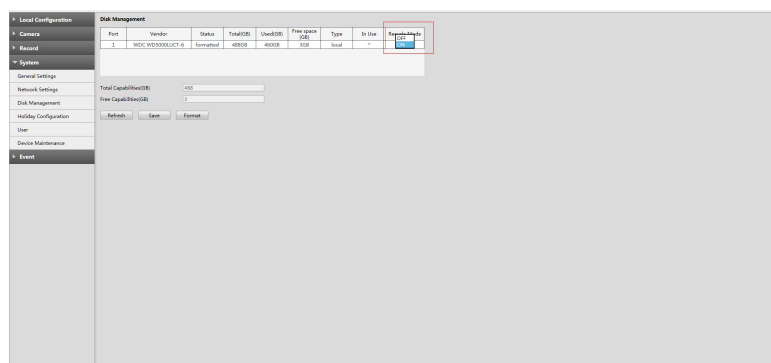
Enter disk management interface by clicking Settings→System→Disk Management



F-4.5.24

Step2. Ensure that HDD has sufficient storage space.

Enter disk management interface by clicking Settings→System→Disk Management. Select [Recycle Mode] to ON in the case of insufficient capacity of HDD.

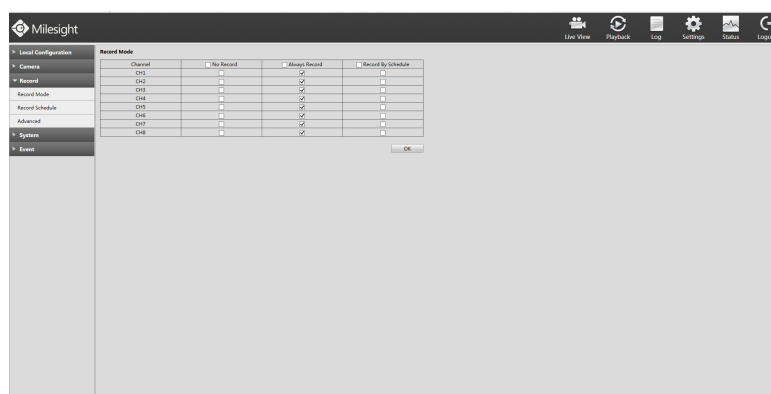


F-4.5.25

4.5.3.1 Record Mode

Step1. Enter record mode menu by clicking Settings→Record→Record Mode.

There are three record modes: No Recording/Always Record/Record by Schedule. You can select the desired one for every channel.



F-4.5.26

[No Record]: NVR will not record if you choose this column;

[Always Record]: It will always record the chosen channel;

[Record By Schedule]: If you want NVR to record by schedule, then you need select this column and then go to 4.5.3.2;

Step2. Click [OK] to save the configuration.

4.5.3.2 Record Schedule

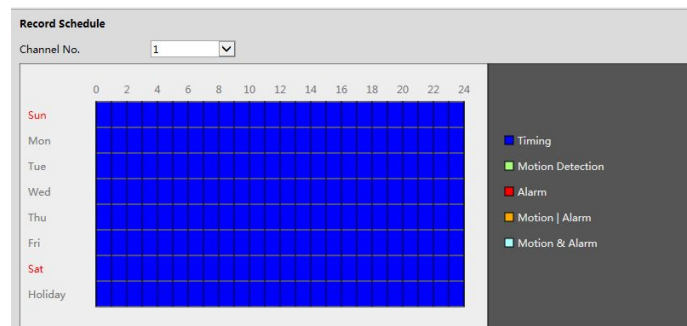
Note:

The days are divided as Holiday/Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday. The schedule of Holiday is superior to other days. To set the holiday information, go to Chapter 4.5.4.4

Method1. General Setting


Step1. Enter Record schedule interface by clicking Record Settings→Record Schedule.

Step2. Select the desired channel (e.g. Channel 1).



F-4.5.27

Step3. Set record schedule.

Select a day from the drop-down list of [Day], click  to set a period, up to 12 periods can be set. (e.g. 01:00 to 05:00 for none recording; 06:00 to 18:00 for timing recording; 19:00 to 21:00 for Motion recording; 22:00 to 24:00 for Alarm recording)

Period	Start Time	End Time	Record Type
1	00:00	24:00	Timing
2	00:00	00:00	Timing
3	00:00	00:00	Timing
4	00:00	00:00	Timing
5	00:00	00:00	Timing
6	00:00	00:00	Timing
7	00:00	00:00	Timing
8	00:00	00:00	Timing
9	00:00	00:00	Timing
10	00:00	00:00	Timing
11	00:00	00:00	Timing
12	00:00	00:00	Timing

☐ Select All

☐ Sun ☒ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Holiday

Copy to Week

F-4.5.28


Period	Start Time	End Time	Record Type
1	00:00	24:00	Timing
4	00:00	00:00	Timing
5	00:00	00:00	Timing
6	00:00	00:00	Timing
7	00:00	00:00	Timing
8	00:00	00:00	Timing
9	00:00	00:00	Timing
10	00:00	00:00	Timing
11	00:00	00:00	Timing
12	00:00	00:00	Timing

☐ Select All

☐ Sun ☒ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Holiday

Copy to Week

F-4.5.29

Click  and check ☒ to copy to other channels.

Copy to Camera

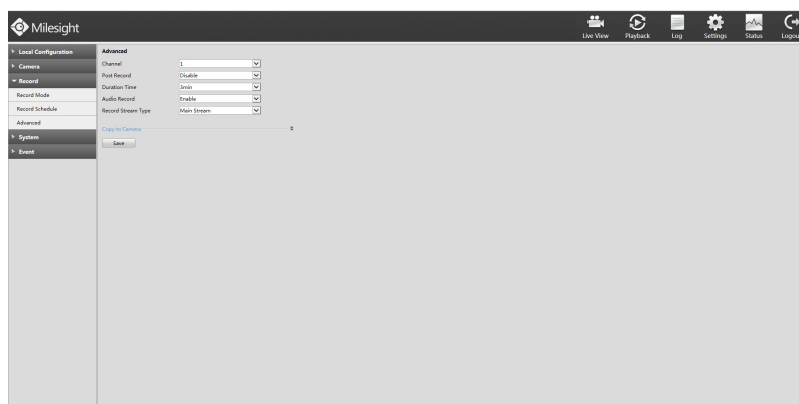
☐ Select All

☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

Save

4.5.3.3 Advanced

Select the desired channel and set record time personally, Click  and check  to copy to other channels.



F-4.5.30

Illustration for Parameters

[Channel Selection]: Select the channel which will be set.

[Post Record]: Enable/Disable post record after the event is over

[Duration Time]: Event post-record duration before event alarm

[Audio Record]: Select to record audio or not

[Record Stream Type]: Select Main stream or sub stream for record

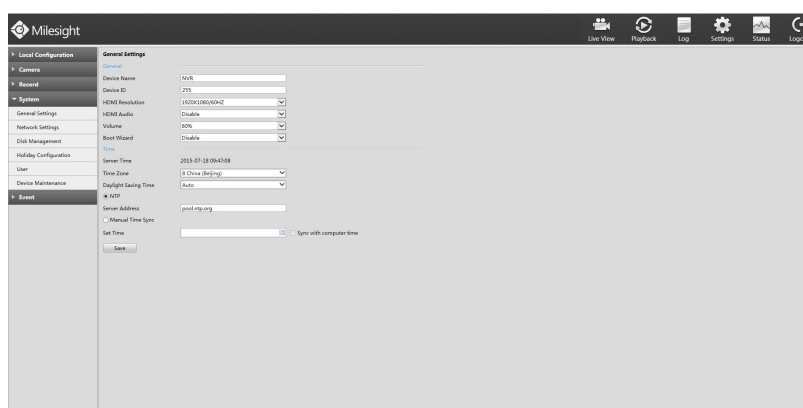
Lastly, you can choose the copy button to copy the settings of record to other channels.

4.5.4 System

4.5.4.1 General Settings

Step: Enter general menu by clicking Settings→System→General

To setup the general parameters of NVR, including modify the host name, device ID, select resolution, and set system time manually, etc.



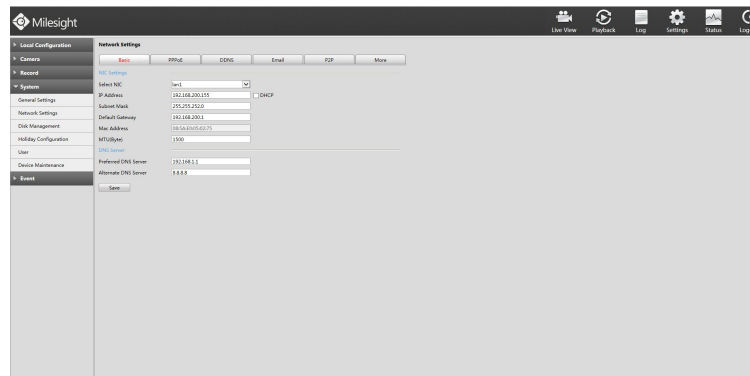
F-4.5.31

4.5.4.2 Network Settings

4.5.4.2.1 Basic Configuration

Step: Enter the network setting menu to set the network parameters by clicking **Settings→System→Network Settings**, select “Basic” page

Basic configuration includes working mode, IP address, subnet mask, gateway, MTU, DNS server, etc.



F-4.5.32

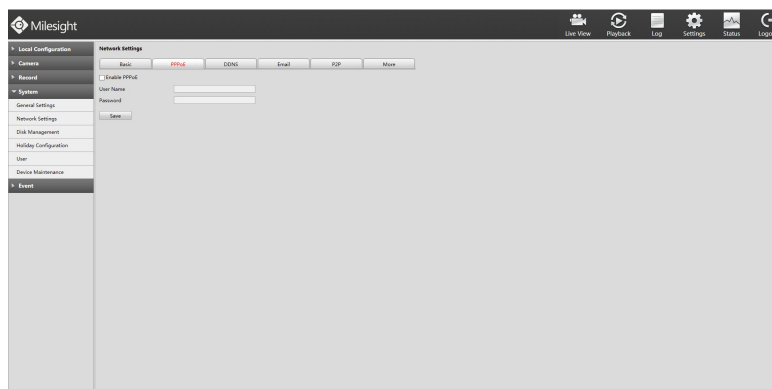
Note:

1. Check the DHCP check-box if there has a DHCP server running in networks.
2. The valid range of MTU is 500~9676.
3. Do not input an IP address conflict with another device.

4.5.4.2.2 PPPOE

Step: Enter PPPOE menu by clicking **Settings→System→Network Settings**. Select “PPPOE” page

Check the PPPoE check-box to enable the feature, and then input user name, password and confirm password for PPPoE access.



F-4.5.33

Note:

User name and password of PPPoE can be obtained from your service provider. Once the setup is completed, a connected status will be shown.

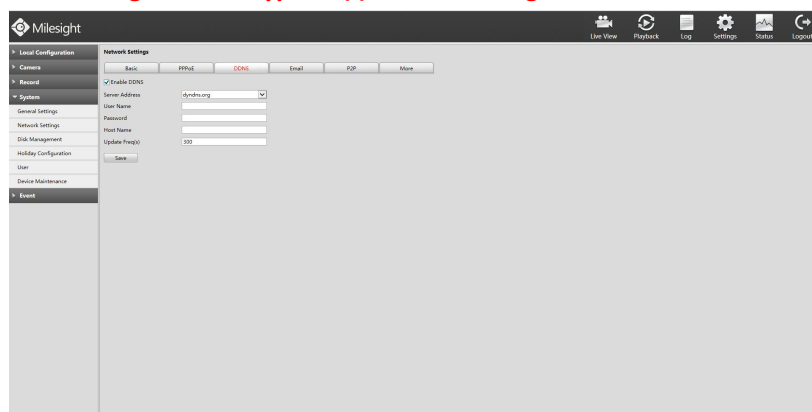
4.5.4.2.3 DDNS

Step: Enter DDNS configuration menu by clicking Settings→System→Network, Select “DDNS” page

If your NVR is setup to use PPPoE to connect public network, you may need to use DDNS (Dynamic Domain Name System) to solve the problems from dynamic IP address. Check the DDNS check-box to enable the feature. Select “DDNS Server”, and input user name, password and host name, and then confirm. Click [Save] for application.

Note:

“Host Name” can use letters, figures and hyphen (-), and must begin with letters.

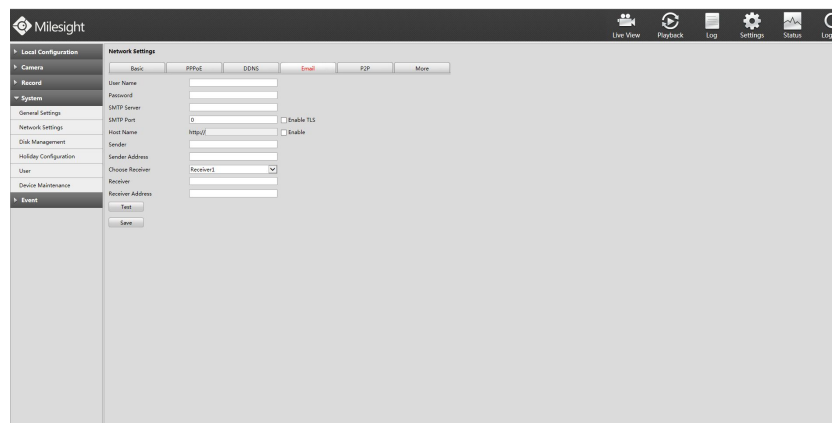


F-4.5.34

4.5.4.2.4 Email

Step: Enter Mail configuration page by clicking Settings→System→Network→Email

Set the Sender E-mail Address, User Name, Password, and SMTP Server:



F-4.5.35

[User name]: The E-mail address you choose to send emails.

[Password]: The password of the E-mail.

[SMTP Server]: The SMTP Server of your E-mail.

[Port]: The port of SMTP Server, it's usually 25.

[Sender Name]: Named by yourself for the Sender E-mail.

[Sender E-mail Address]: It must be same with [User name].

[Select Receiver]: You can have 3 receivers once.

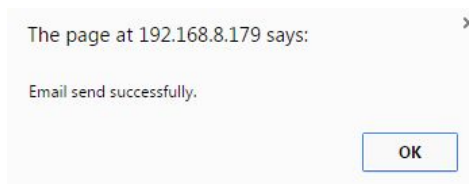
[Receiver Name]: Named by yourself for the Receiver E-mail.

[Receiver E-mail Address]: E-mail Address for the receivers.

[Enable SSL/TLS]: Security Protocol of email sending. Please enable SSL/TLS according to actual mailbox. (Some SMTP server needs to secure connection)

[Host Name Enable]: For attaching URL when sending emails.

Select [Test] to check if the Mail function is workable

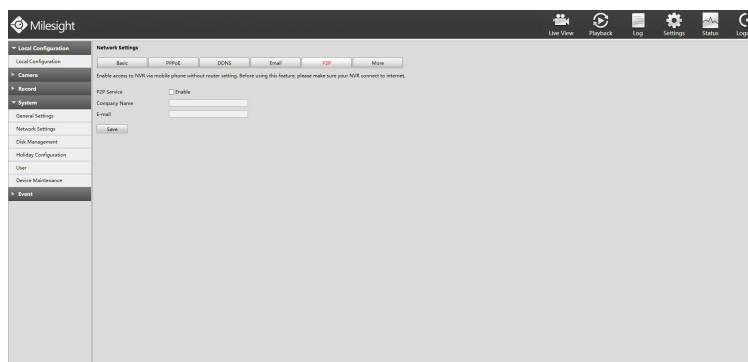


Note:

1. You will get a screenshot every time for motion detection email sending.
2. If you use a port forward IP of NVR for the Host Name, please type the entire address including the port.
3. If click the URL in the alarm emails within 10 minutes, you can visit NVR Web GUI without login.

4.5.4.2.5 P2P

You can use M-VMS to watch the remote live view by P2P. With the introduction of P2P, you can watch the NVR Live view from WAN without do any port forwarding on the router. Click Settings→System→Network→P2P, you will see the image like below.



F-4.5.36

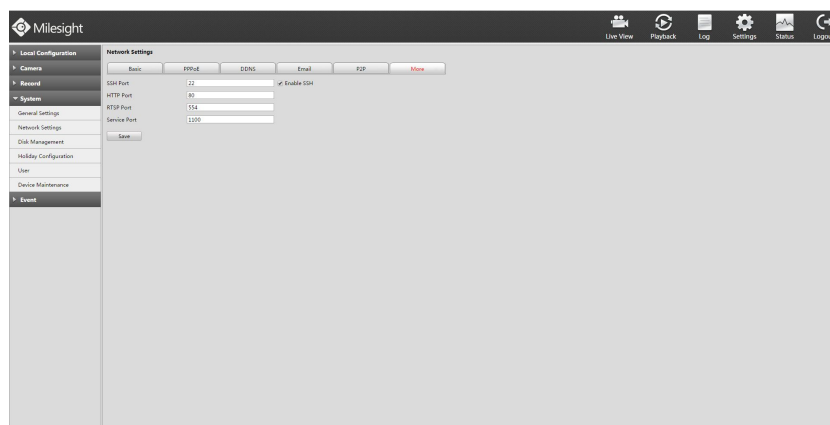
1. Choose "Enable" from the drop-down list of "P2P";
2. Fill in your Company Name or your Individual Name in the "Company Name";
3. Fill in your Email address in the "Email" for active;
4. Save the settings.

Note:

Activation works as soon as email sends successfully. It is no need to contact Milesight to activate again.

4.5.4.2.6 More

Step: Enter More configuration page by clicking Settings→System→Network Settings→More



F-4.5.37

SSH Port Setting

Secure Shell (SSH) has many functions; it can replace Telnet, and also provides a secure channel for FTP, POP, even for PPP.

Note:

The default SSH port is 22.

HTTP Port Setting

The default HTTP port is 80. Please modify HTTP ports according to actual application.

Note:

1. The default HTTP port for IE browser is 80.
2. HTTP port is used for remote network access.

RTSP Port Setting

Real Time Streaming Protocol (RTSP) is an application layer protocol in TCP/IP protocol system. The default RTSP port is 554. Please modify RTSP port according to actual application.

Note:

1. RTSP port is used for remote network live view.
2. RTSP port valid range is 554 or 1024~65535.

Service Port Setting

Service port is used to remote access when add NVR by mobile device.

The default Service port is 1100. Please modify Service port according to actual application.

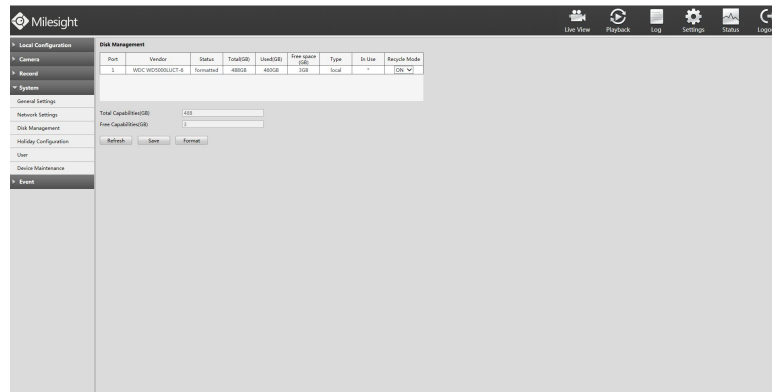
Note:

1. You can add this port when using P2P/port mapping/LAN IP to add NVR.
2. When port mapping, you still need to map 554 to 554. Only then you can use 1100 to watch the live view by remote WAN.

4.5.4.3 Disk Management

Step: Enter disk configuration menu by clicking Settings→System→Disk Management

Configuration page contains the basic information of the disk, see F-4.5.38. Select a disk and click [Format] to format the disk.

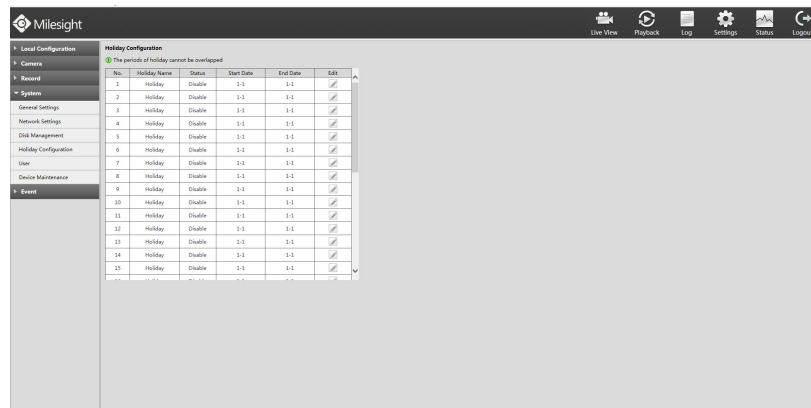


F-4.5.38

4.5.4.4 Holiday Configuration


It can configure the record or image capture schedule for holidays of the current year.

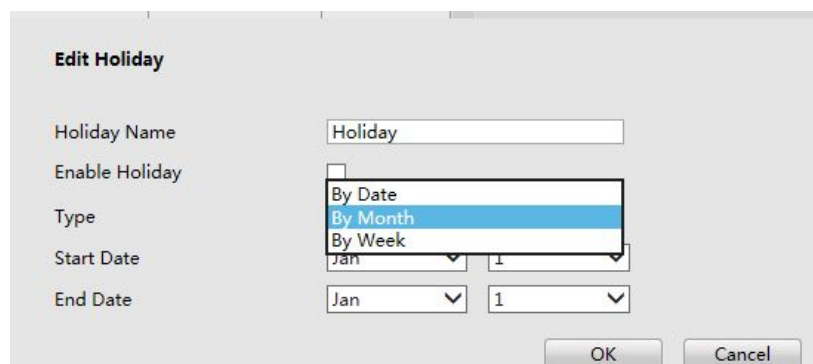
Step1. Enter holiday setting menu by clicking Setting→System→Holiday Configuration.



F-4.5.39

Step2. Edit the holiday schedule.

Click  to open holiday configuration page to modify holiday name, check the 'Holiday Enable' check-box, and then select [Type] to setup Start/End date. There are Month, Week, and Date in [Type] mode. Then click [OK] to save the configuration and return to holiday configuration page.



F-4.5.40

4.5.4.5 User

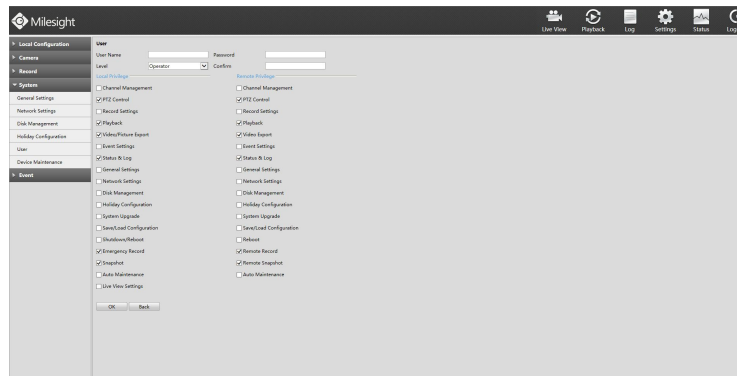
Step1. Enter user setting menu by clicking Settings→System→User.

Note:

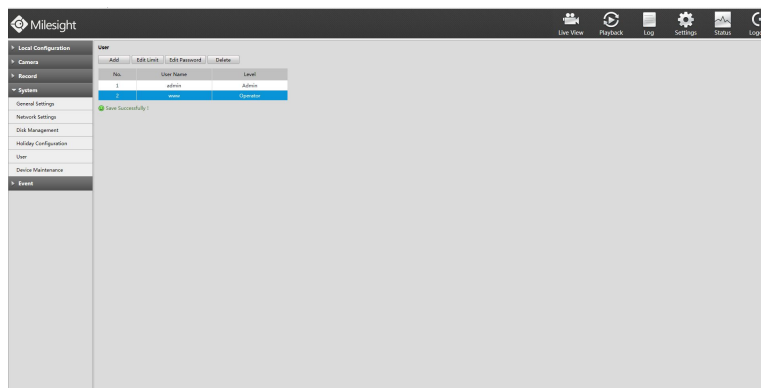
1. If the NVR firmware version out of the factory is xx.7.0.6 or above, the default user name is “admin” and the default password is “ms1234”;
2. If the NVR firmware is upgraded to xx.7.0.6 or above from a lower version, the default password will turn to “ms1234” after a reset, or it will keep the old default password “123456”;
3. If the NVR firmware version is below xx.7.0.6, the default user name is “admin” and the default password is “123465”.

Step2. Add new user.

Click [Add] to enter add user menu, input information for the new user, select user level and set user privileges, then click [OK] to save settings.



F-4.5.41



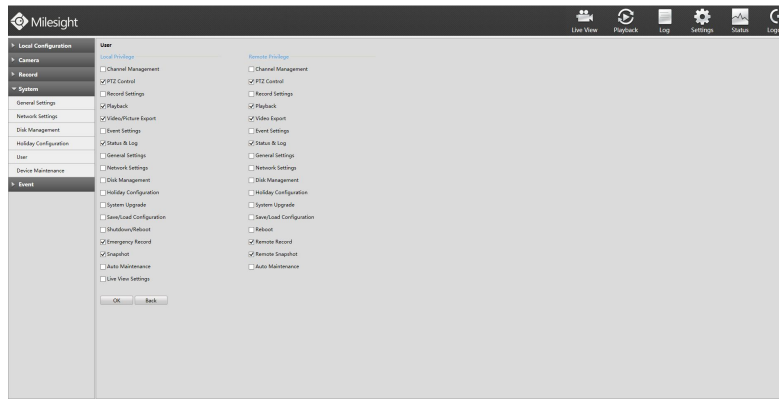
F-4.5.42

Step3. Edit user.

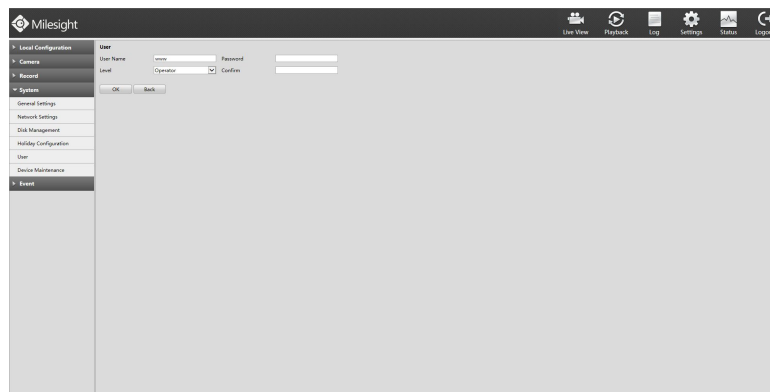
Select a desired user and click, when the color below changes into blue, click [Edit Limit] to edit user privileges, click [Edit Password] to change password.

Note:

1. User name can be comprised of letters and figures. The user level is separated into User and Operator with different authority;
2. [Local Privilege] means the privilege to the monitor connected with NVR, while the [Remote Privilege] means the privilege to web settings.



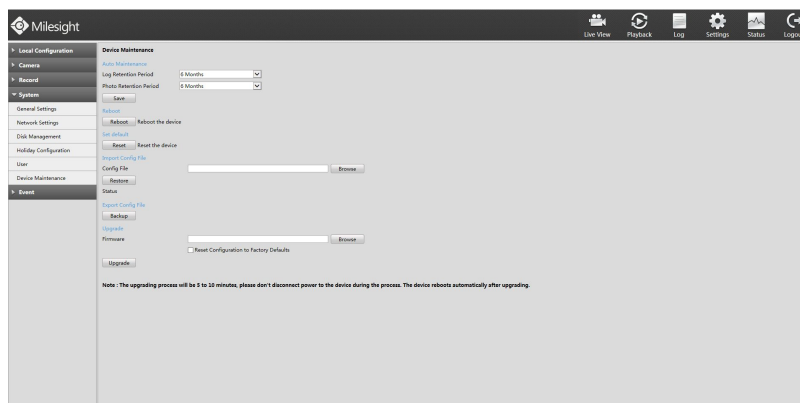
F-4.5.43



F-4.5.44

Step4. Click **Delete** to delete a user.

4.5.4.6 Device Maintenance

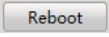


F-4.5.45

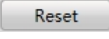
4.5.4.6.1 Auto Maintenance

You can set the Log and Photo Retention period for Log and Photo. Once is expired, it will automatically delete by NVR. The retention period is ranged from 1 to 12 months, if you don't want those files be deleted, you can select Permanent.

4.5.4.6.2 Reboot

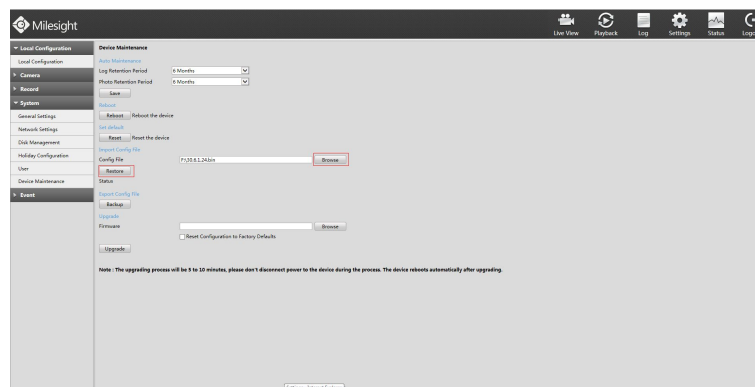
Click  to reboot the NVR.

4.5.4.6.3 Reset

Click  to reset the NVR to factory defaults.

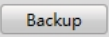
4.5.4.6.4 Import Config File

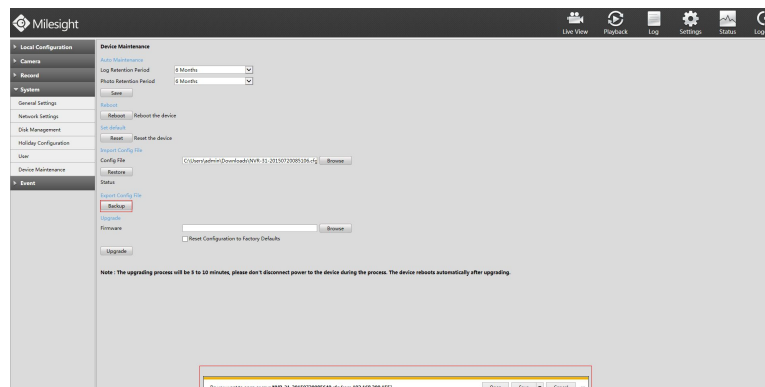
Click  to select one desired file and click  to restore the NVR configuration.



F-4.5.46

4.5.4.6.5 Export Config File

Click  to backup present settings.



F-4.5.47

4.5.4.6.6 Upgrade

Click to select the firmware file, and check ☒ if reset configuration to factory defaults. Then click to upgrade.

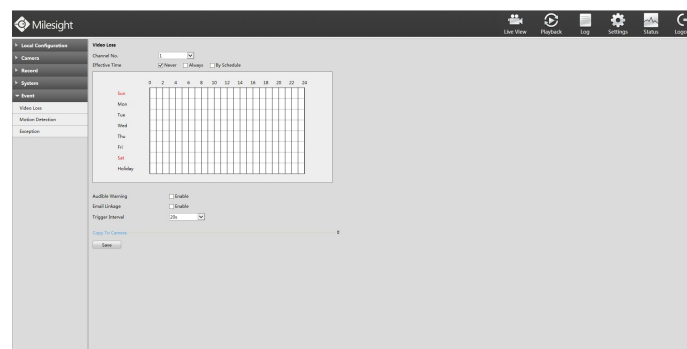
Note:

The upgrading process will be 5 to 10 minutes, please don't disconnect power to the device during the process.
The device reboots automatically after upgrading.

4.5.5 Event

4.5.5.1 Video Loss

Step1. Enter video loss configuration interface by clicking Settings→Event→Video Loss.



F-4.5.48

Step2. Select a desired channel

Step3. Select effective time to setup when you want to trigger actions once video loss is detected.

[Never]: Your NVR will not trigger any actions when [Never] button is checked. No matter the [Audible Warning] or [Email Linkage] check-boxes are checked or not.

[Always]: Your NVR will always trigger actions when [Always] button is checked. Please make sure [Audible Warning] or [Email Linkage] is checked.

[By Schedule]: Schedule can be set for all week or any day of the week with up to 12 time periods per day. Video loss actions take effect in the scheduled period only.

[Audible Warning]: Trigger an audible beep when video loss is detected

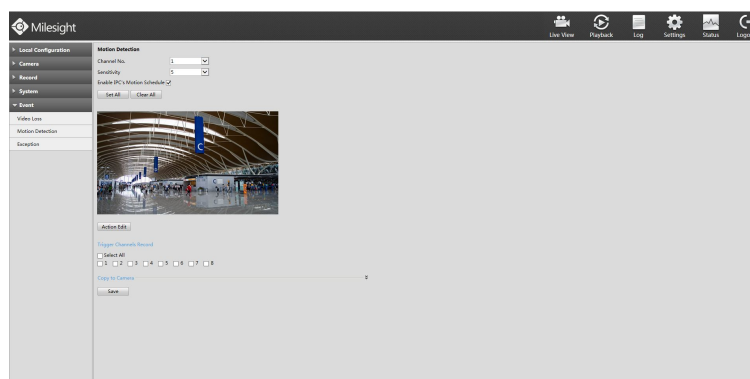
[Email Linkage]: Send video loss note to specified email address when video loss is detected.(Please refer to 4.5.4.2.4 Email configuration for mail address setting)

[Trigger Interval]: Set the interval between two events.

Audible Warning	<input type="checkbox"/> Enable
Email Linkage	<input type="checkbox"/> Enable
Trigger Interval	20s <input type="button" value="v"/>

4.5.5.2 Motion Detection

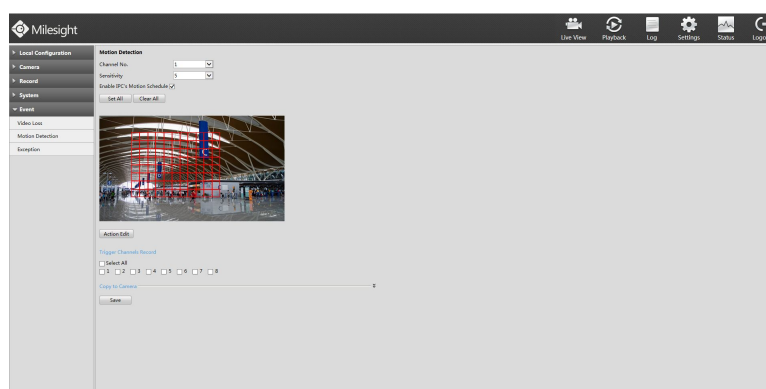
Step1. Enter motion detection setting interface by clicking Settings→Event→Motion Detection.



F-4.5.49

Step2. Set the trigger area for motion detection.

You can set the area by dragging the mouse on live view window. Meanwhile, the area will be synchronized in the camera.



F-4.5.50

Step3. Select the schedule, sensitivity and trigger area for motion detection.

[Enable IPC's Motion]: If it is enabled here, motion detect will take effect 7*24h; If it is not enabled, motion detect will take effect as the schedule which is set on the camera web.

[All Set]: Set all area as the trigger area;

[All Clear]: Clear all trigger area;

[Sensitivity]: Set sensitivity for motion detection, range from 1 to 10.It will synchronize to IPC if you set sensitivity here;

Step4. Click the [Action Edit] to edit action once motion is detected.

Edit the schedule and action.

F-4.5.51

[Audible Warning]: NVR will audible warning once motion is detected;

[Email Linkage]: NVR will send an email to the address set before.

Note:

Motion record schedule is different from the schedule of the [Audible] and [Email Linkage]. Enter the Record Schedule by clicking Settings→Record→Record Schedule. Confirm the time to enable Motion Record.

Step5. Select the desired channel and check ☒ to configure motion detection action.

4.5.5.2 Exception

Step1. Enter Exception by clicking Settings→Event→Exception.

F-4.5.52

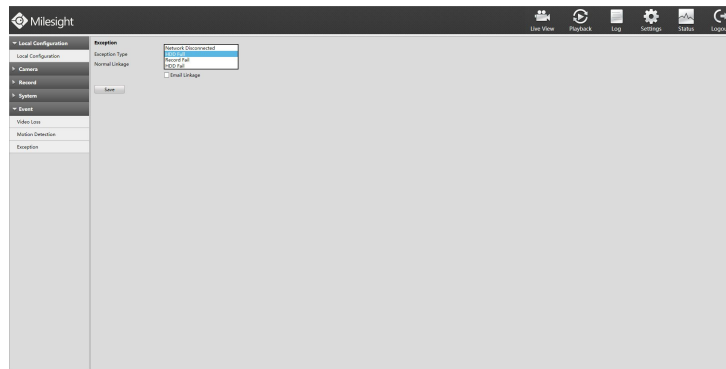
Step2. Select Exception Type. There are 4 kinds of alarm types.

[Network Disconnected]: Loss of network;

[HDD Full]: HDD is full. It usually happened when Recycle Mode is OFF.

[Record Fail]: Record Failed, including HDD Error, HDD Full, no HDD and so on.

[HDD Error]: HDD is Error.



F-4.5.53

Step3. Select alarm type.

[Audible Warning]: Audio alarm will be ready to be triggered if checked;

[Email Linkage]: Email will be ready to sent if checked.

4.6 Status

You can have a quick view of the information of the device, network, camera, disk and event. This part is only for your rapid reference. If you want to make any configuration, please go to corresponding parts accordingly.

4.6.1 Device Information

Step: Enter Device information menu by clicking Settings→Status→Device Information

It will show you information in F-4.6.1, including: Device ID, Device Name, Hardware Version, Software Version, Serial Number, and up time.

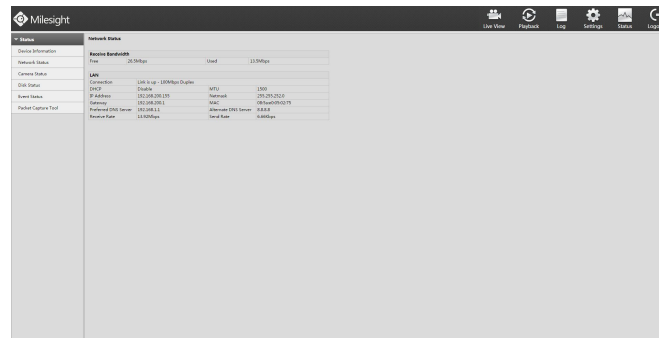


F-4.6.1

4.6.2 Network Status

Step: Enter Network Status menu by clicking Settings→Status→Network Status

It will show you information in F-4.6.2, including: Free bandwidth, Used bandwidth, Connection, Mode, DHCP, MTU(B), IP Address, Net mask, Gateway, MAC, Preferred DNS Server, Alternate DNS Server, Receive Rate, and Send Rate.

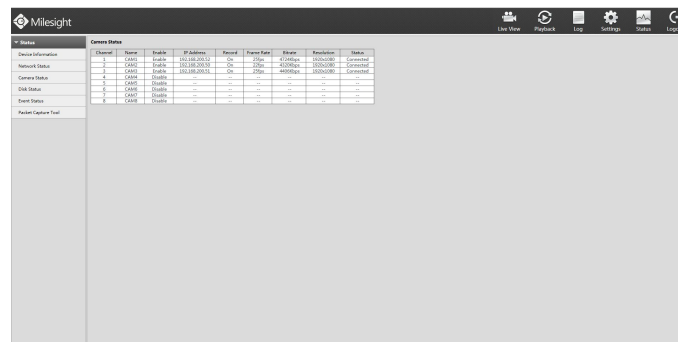


F-4.6.2

4.6.3 Camera Status

Step: Enter camera status menu by clicking Settings→Status→Camera Status

It will show you information in F-4.6.3, including: Channel, Name, Enable, IP Address, Record, Frame Rate, Bit rate, Resolution and Status.

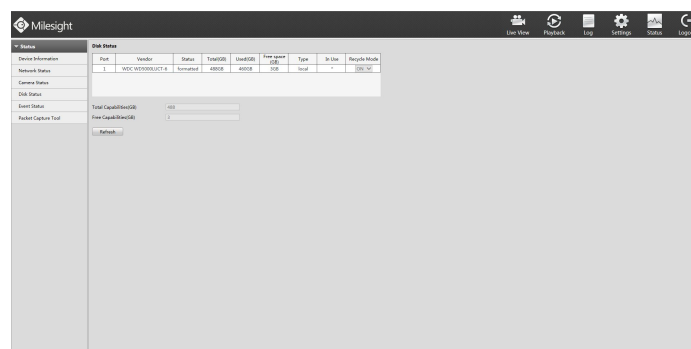


F-4.6.3

4.6.4 Disk Status

Step: Enter disk status menu by clicking Settings→Status→Disk Status

It will show you information in F-4.6.4, including: Port, Vendor, status, Total(GB),Used(GB) Free space(GB), HDD Type, In Use, and Recycle Mode. You can see the Total Capacity (GB) and Available Capacity (GB) as below:

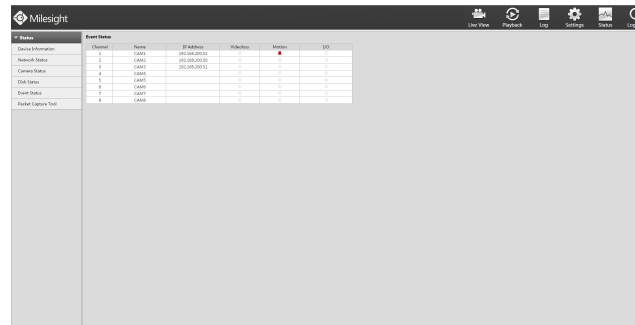


F-4.6.4

4.6.5 Event Status

Step: Enter event status menu by clicking **Settings→Status→Event Status**

It will show you information in F-4.6.5, including: Channel, Name, IP Address, Videoloss, Motion, I/O. Icon will light up as below:

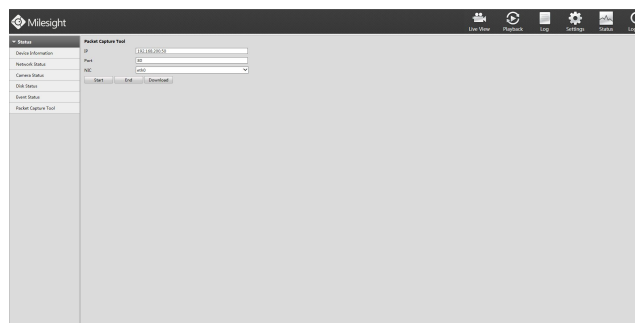


F-4.6.5

4.6.6 Packet Capture Tool

Step: Enter packet capture tool status menu by clicking **Settings→Status→Packet Capture Tool**

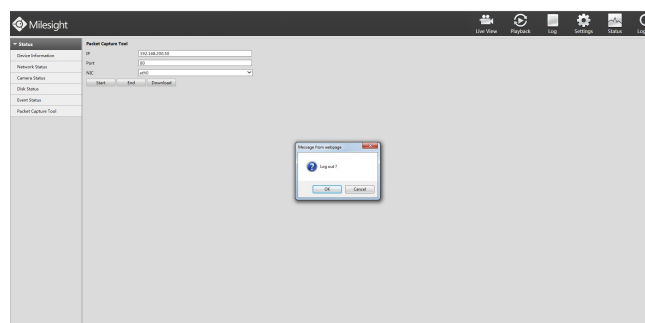
Print IP and Port, click the [Start] to start capture packet then click [End] to stop. Click [Download] to backup packet locally.



F-4.6.6

4.7 Logout

Click [Logout] to exit the current account.



F-4.7.1

5. Services

Milesight Technology Co., Ltd provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

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Web: <http://www.milesight.com>

Online Problem Submission System: <http://www.milesight.com/support/feedback.asp>

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