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User Manual

Reolink PoE NVR



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Note:

1. This user manual is for the Reolink PoE NVR and NVR security system that work with the monitor.

2.This user manual takes an NVR model that supports most features as an example. Your own NVR model may not support certain features mentioned here. Please refer to the specifications of your NVR model.

1. NVR Introduction

Device Overview

RLN8-410/RLN16-410

Reolink has 16-channe PoE NVR RLN16-410 and 8-channel PoE NVR RLN8-410. Add cameras to the PoE NVR, you are able to customize your own security systems. Reolink PoE IP security camera systems feature plug and play, 12MP,4K Ultra HD, or 5MP/4MP, which are easy to set up and simple to use, for DIY enthusiasts and beginners. Features of our NVR video system also include excellent night vision, 24/7 continuous recording, local & remote access, and more.

RLN8-410



RLN8-410-E (8MP)



RLN16-410





Light Status

LED Status	NVR Status
Power LED Solid Green	NVR is powered on.
Power LED off	NVR is powered off.
HDD LED off	No HDD is detected.
HDD LED Solid Red	HDD is detected but not recording.
HDD LED Blinking Red	NVR is recording to HDD.

NVR Kit

The PoE NVR Kit or PoE security camera system, is a set of cameras with an 8-channel or 16-channel NVR which saves the trouble to choose each camera separately. And the NVR kit is plug and play, making it super easy to set up. The NVR kit model, for example, RLK8-800B4 means it comes with one RLN8-410 and four B800 cameras. For the details, please refer to the package contents while purchasing the product.

NVR Model	Hardwar e Version	Supported Camera Resolution	Person/Vehic le Detection	Max Single HDD Capacity	Interfa ce
	H3MB18	4mp/5mp/8mp/ 12mp	Υ	6TB	New UI
RLN16-410	H3MB02	4mp/5mp	Ν	4TB	old
	H3MB06	4mp/5mp	Ν	4TB	old
	N3MB01	4mp/5mp/8mp/ 12mp	Y	6TB	New UI
	H3MB18	4mp/5mp/8mp/ 12mp	Y (with latest firmware)	6TB	New UI
RLN8-410	N2MB02	4mp/5mp/8mp/ 12mp	Y	6TB	New UI
Н3МВ02		4mp/5mp	Ν	4TB	old
RLN8-410-E	H3MB16	4mp/5mp/8mp	N	4TB	old

2. Setup and Installation

Set up the NVR

Connect and Power the NVR

1. Connect the NVR's LAN port to router by Ethernet cable, and connect the mouse to the USB port of the NVR.



2. Connect the NVR to a monitor with HDMI or VGA cable.



3. Connect the PoE camera to PoE port of the NVR. Or if you want to use a WiFi camera, please connect the camera to the WiFi of the same router as NVR.



4. Connect the power adapter to the NVR, and switch on the NVR.



Set up the NVR on the Monitor

Please power on the NVR and connect it to a monitor by VGA or HDMI cable. After the NVR is powered on, wait a few seconds it'll show a setup wizard on the monitor. Follow the setup wizard to set up the NVR system.

1. General: Set up the NVR Language, Screen Resolution, Date Format and Time Format. Click Next.

	reeli	nk	
General DST	Login Password Sec	curity Device Info	Email Settings
	Language		
	Screen Resolution		
	Date Format		
	Time Format		
			Next

2. **DST**: Set up the **System Time**, **Time Zone** and choose if to enable **DST** (Daylight Saving Time). Click **Next**.

		1	reølin	ık			
\$ —	0	. -	- 6		0 -		
	DST						
	System Time			07-09-2	2021 17:33:01		
	Time Zone						
	DST						
							k
						Previous	Next

3. Login: Set up the NVR account password. If you check "**Require Password** Login When Unlocking Screen", the NVR will automatically lock the screen and ask for the password when you want to operate the system.

		reøli	nk			
\$ — @	<u> </u>			0 —		— X
	T Login					
	Account Name			adm	in	
	Туре			Super Accou	nt rs.	
	Password					
	Confirm Password					
	Require Password Log	in When Unlocking Sci	reen			
						•
					Previous	Next

4. **Password Security**: Set a password security question and answer. In the case the NVR password is forgotten, you can retrieve the password via this password security question.

			reølink			
\$ –	- @	- 4		- 0 -		— X
			Password Security			
	Set up pr yours.	assword security	questions to retrieve passv	vord when you forgot		
	Question	1	when i	s my bd?		
	Answer					
Exit					Previous	Next

5. Device Info: Set a name for the NVR, and click Format to format the HDD.

			reølink			
q —	Q —	4	- 🔒 -			
				Device Info		
	Device Name					
	Storage					
	O HDD 0	Free Space:64G	B / Capacity:1848GB	Format		
Exit					Previous	Next

6. **Network**: Suggest to keep **Network access** as DHCP and **DNS** as Auto. It'll obtain the network connection from a router automatically, when the NVR is connected to the router with an Ethernet cable.

		r	e ⊚li∩k			
General	O ST	🚢	- Ressword Security	Device Info		Email Settings
	N	etwork access				
	D	NS				
Exit					Previous	Next

7. **Email Settings**: Configure the email settings for sending alarm emails. You can skip this step and set it up later when you need to use this feature.

		re	∋øli∩k	(
\$ —	Q —	. —	- 🔒 -	- 🥵 -		\rangle	
						Email Setting	
Server Type			Sender Password				
SSL or TLS			Recipient				
Port							
To protect your pri account as the sen	To protect your privacy and information, please add your personal email account as the sender.						
Nickname			Content				
			Interval				
Exit					Previous	Next	

Install the NVR and Camera

NVR is suggested to directly placed on a table, while for the camera you are able to find installation guides and tips on the camera's user manual.

3. Use Your System

Live View

Introduce Icons on the Live View Page



User Manual

lcon	Meaning
G	Playback: Replay the recording of the camera
	Record: Click to manually start/stop recording
ά	Clip: Crop to partially enlarge parts of the live image
Ф	PTZ: Control the camera's pan, tilt and zoom
1/17	Audio: Turn on the audio for live viewing
5	Image Settings: Click to change the camera's image settings
0	Live View: Click to turn on/off live view of the camera
P	Spotlight: Click to turn on/off spotlight of the camera
	Siren: Click to manually trigger siren of the camera
\$	Settings: Click to enter the camera's settings menu

Icons at the Bottom of the Live View Page

Right-click on the live image screen to display a list of icons at the bottom of the screen.



lcon	Meaning
<	Last: Click to show the previous screen of camera's live image
>	Next: Click to show the next screen of camera's live image
ţ	Scrollview: Click to start scrolling the live image screen automatically
	Display Mode: Choose to view one camera or multiple cameras
C	Playback: Click to enter the playback page
	Back up: Click to enter the backup page
\$	Settings: Click to enter the NVR settings menu
A	Lock Screen: Click to lock screen, which can set up to require the password to unlock

Change the Place of the Camera Live View

Manually drag the camera to a blank channel to change the position of the camera's live image on the monitor screen.

Use Multiple View

Click to choose options from 1, 4, 8, 9, 16 split-screen views. Note for 8-channel NVR there's only options for 1, 4 or 8 split-screen views.

Use PTZ

Click

to bring up the PTZ control panel of the camera. Click the arrow in different direction to pan or tilt the camera.

Click +- on **Zoom** to zoom in or zoom out the image, and click +- on **Focus** to manually adjust the focus of the camera.

Click +- on **Movement Speed** to set up how fast you want the camera to pan and tilt.



Preset Point

At **Preset Point**, please pan and tilt the camera to wanted position then click to add a preset position. Set a name for the preset, then click **Confirm** to save.



To delete a preset position, please click to edit all current saved preset positions. Click to change name of the preset position, and click to delete the selected position.



Monitor Point

Set the monitor point (or guard position). You can set the camera to always return back to this position if the camera is rotated away from it.

At **Monitor Point**, click to set the current position as a monitor point.





Set the Interval for Auto Return from 10-300 seconds, and then click OK.





Patrol

Click control to start or stop cruise horizontally. At **Patrol**, you can also customize the patrol routine with at least two preset points.

At Patrol, click 🚺 .



Click + to add at least two preset points to create a patrol. Click to set the preset point duration and speed, click **Confirm** to Save it. Click to delete the selected preset point from patrol.



Change the Live View Resolution

Click **Stream**, here you can change the **Resolution** for the **Main Stream**. Then the live view resolution will be changed accordingly.

reølink	on [®] Camera1	♥ Camara Name	X
Camera Control Channel	Streen Display Detection	Camera Name Camera 1 Model: RLC-820A PIP: 172.16.25.3.9000 Resolution (Max.): 3840*2160 Frame Rate (Max.): 25(fps)	
Q Storage	Customize video quality to meet your ne		
幹 System	Main Stream Resolution 3840*2160 Frame Rate (FPS) 2 ~ Max Bit Rate (Kbps) 6144 ~	Sub Stream Resolution 640*360 Frame Rate (FPS) 10 Max Bit Rate (Kbps) 256 V	
U Power	Restore to default Settings Apply to Other Cameras		

Set up Lock Screen

Right click on live image screen to display the icons on the bottom. Click **f**:o manually lock the screen.



You can set to require a password when unlock the screen to protect the NVR system. Or you can set the NVR to automatically lock the screen and then requires a password to unlock. It can be set up at NVR **Settings** > **System** > **General** page.

Camera Settings

Stream

Go to **Settings** > **Camera** > **Stream**, here you can change the resolution, frame rate and bit rate of the camera. Set up a higher resolution provides a better image quality, but also requires a much higher network bandwidth and uses up more storage space while recording.

Display

Go to Settings > Camera > Display, here you can set up the Camera Name, Time Stamp, Watermark, Flip and Mirror etc.

reølink	Camera1	~	×
Camera Channel Surveillance	Stream Drive Detection	Camera Name Camera Name Camera 1 Model: RLC-820A PiP: 172.16.25.3.9000 Resolution (Max.): 3840*2160 Frame Rate (Max.): 25((ps) record n Audio and Light	Bitrate: 6185KBS CPULoad: 39% HWNo:: IPC_523128M8MP FWVersion: v3.0.0.124_20112601 Collapse ▲
🖸 Storage	Disable Preview Camera Name None v Time Stamp Top Left Watermark		
<mark>ሀ</mark> Power	Flip Display Flip Display Screen Mirroring Restore to Default Settings Apply to Other Cameras		

Disable Preview: Turn on or off live view of the camera.

Camera Name: Set a name for the camera.

Time Stamp: Set the position of the Time Stamp, you can choose from Top Left, Top Right, Bottom Left, and Bottom Right.

Watermark: Turn on or off the Reolink Logo on the live view.

Flip Display: Turn the camera's image upside down when enable this option.

Screen Mirroring: Mirror the camera's image when enable this option. Image Settings: Click Image Settings, here you can adjust the Brightness, Contrast, Saturation and Sharpness of the camera's image.

ceeliok	< Back			×
I CENI IK	Image Settings			
Camera	Customize image settings to meet you needs.	Anti-Flicker		
Channel		Off Day/Night		
∷ Surveillance		Auto Exposure		
Network		Auto		
_	Camera	Backlight		
Q Storage		Off		
💼 System	Brightness			
	Contrast			
	Saturation			
	Sharpness			
ပ် Power				

Click **Advanced**, you can set up image settings below.

Anti-Flicker: Choose from Off, 50Hz, 60Hz, or Other.

Day/Night: Set the Day/Night mode of the camera from Auto, Color, Black & White, or Off.

Exposure: Set from Auto, Low Noise, Frame Rate or Manual.

Backlight: Set from Off, Backlight Control or Dynamic Range Control.

Usually, it's suggested to keep these image settings at default.

Privacy Mask Settings

You can set the privacy zone to block parts of the live image to protect your privacy. After setup, the privacy zone will be blocked in both live view and recordings. Click **Privacy Mask Settings**, use your mouse to drag up to 4 zones. Then click **Apply** to save the change.



Audio and Light

Go to **Camera** > **Audio and Light**, here you can set up camera's audio, status LED, infrared light and spotlight.

Record Audio: For cameras with built-in microphone, click to enable this option. Then it will save recordings with audio and also allow to preview with audio. **Status LED:** For cameras with status LED, click to disable this option, then the camera's status LED will be off.

Infrared Lights: Choose from Auto or Off. Usually suggest you to keep it as Auto.

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Volume: For cameras that support adjusting volume, you can also drag the volume bard to adjust the volume of the camera's speaker.

Spotlight: For cameras with built-in spotlight, you can drag on **Brightness** bard to adjust the brightness of the spotlight. Click to enable **Night Mode**, you can choose **Auto** mode or **On as scheduled**. With auto mode, the spotlight will turn on when alarm event is detected. With on as scheduled mode, you can set the time when the spotlight will turn on and off.



More Info

reelink	Ol Camera1	V Contract Name		×
Camera	Stream Display Detection	Camera Name Camera 1 Model: RLC-820A () () P: 172.16.25.3.9000 Resolution (Max.): 3840*2160 Frame Rate (Max.): 25(fps) on Audio and Light	More I	
ሆ Power	Restore to Default Settings Apply to Other Cameras			

Go to **Camera** and click **More Info**.

Here you can check the **Hw No** (Hardware number) of the camera and **FW Version** (firmware version).

reølink	Camera1	~	×
Camera Channel Surveillance	Stream Display Detection	Camera Name Bitrate: 6185KBS Camera 1 CPULoad: 39% Model: RLC-820A HW No.: IPC_523128M8MP Resolution (Max): 3840*2160 FW Version: v3.0.0.124_20112 Frame Rate (Max.): 25(fps) Collapse v Audio and Light Audio Audio Audio Version:	
🖸 Storage			
🏟 System	Camera Name Camera Name Time Stamp Top Left Watermark Flip Display Screen Mirroring		
ር Power	Restore to Default Settings Apply to Other Cameras		

4.Surveillance

Set up Motion Detection

Go to **Camera** > **Detection**, here you can set up the motion detection (MD) sensitivity and detection area.

Click **Add Time Period** to set a time period with a sensitivity, you can set a maximum of 4 different sensitivity time periods.



Click **Detection Area**, you can draw the areas where you don't want to detect the motion. Click Apply to save your detection area settings.



For cameras with human/vehicle detection, you can also set up the sensitivity for smart detection and object size.



Click Settings under Sensitivity for Smart Detection.

Here you can set the sensitivity level for **Person** and **Vehicle** detection independently.

reølink	< Back Sensitivity for S	mart Detect	ion	
Camera		Low	Medium	High
Channel	🗶 Person			
⊞ Surveillance				
() Network	Vehicle			
O Storage				
🏩 System				ĸ
() Power				
OPower				

Click Object Size, here click is to set a minimum object size, and click is to set a maximum object size. Click **Apply** to save the settings. This way, only objects between the set minimum and maximum size will trigger the alarm.



For cameras that support auto tracking, you can also enable **Auto Tracking** in this page. And choose **Person** or **Vehicle** as the **Tracking Type**.

reølink	<u>∞</u> 523wa	♥ Comoro Nomo		Bilate: 1075//BC	×
Camera	and an and a set of the	523wa		CPU Load: 52% HW No.: IPC_523128M5MP	
Channel	- the second sec	IP: 192. Resolution (Ma	168.221.6:9000 ax.): 2560*1920	FW Version: v3.0.0.443_21070810_v Collapse A	
E Surveillance	Concession of	Frame Rate (M			
∰ Network	Stream Display Detection	on Audio and Light			
🐡 System	MD Sensitivity Lov	w Medium High	Sensitivity fo	r Smart Detection	
	00 00 00 00 00 00 00 00 00 00 00 00 00	0	Filter out det Object Size	ection objects by size.	
	06 ‡ : 00 ‡ 12 ‡ : 00 ‡ 💻	•			
	Add Time Period		O Aut	to Tracking	
			Tracking Typ	Vehicle	
() power					
OPower	Apply to Other Cameras				

Set up Motion Recording



Please set up the motion detection first, then go to **Surveillance** > **Record** to enable the motion recording.

Click Settings under Record option.

Enable **Overwrite**, it'll automatically overwrite the previous recordings when the HDD is full. Choose if to enable **Start to record before a motion event is detected** according to your need.

Set the **Extended recording time after a motion event ends** from 1 min, 2 min, 5 min, or 10 min.

Set the **Pack Duration** from 30 min, 45 min, or 60 min. The package duration is the maximum lengthen of a recording file.

ceeliok	< Back	×
	Record	
Camera	Overwrite previous recordings when storage space is full.	
Channel	Start to record before a motion event is detected.	
⊞ Surveillance		
Wetwork		
O Storage		
🏩 System		
U Power		

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Click **Daily Schedule**, choose the camera you want to set up. Click **Alarm**, here you can set up a schedule when you'd like the camera to record on motion. If you need to set different schedules for each camera, please choose the cameras to set them up one by one. Or if you want to set up the same schedule for all cameras, you can click **Applies to Other Cameras** to directly copy current camera's settings to others.



For cameras with person/vehicle detection, you can also choose the **Alarm** type from **Any Motion**, **Person** or **Vehicle**.



Set up Continuous Recording

Please set up the recording settings first, then go to Surveillance > Record > Daily **Schedule**, choose the camera you want to set up. Click **Timer**, here you can set up a schedule for when you'd like the continuous recording to work.



If you keep all schedule disabled, then it'll not save any continuous recordings.

Note:

You can save both motion-triggered recordings and continuous recordings simultaneously by setting up their own **Alarm** or **Timer** schedule.

Set up Motion Alerts

Alarm Email

Alarm email allows the camera to send an email with plain text, camera's live image or video when the camera detects a motion.

Set up Alarm Email Go to **Surveillance** > **Email Alerts**, click to enable email alert.

	Record Record important moments around your property. Settings Daily Schedule	C :
E Channel	Email Alerts Get notified by emails of important moments. Settings Daily Schedule Exception	•
Metwork Storage	FTP Back up important recordings remotely. Settings Daily Schedule	
System	Buzzer NVR buzzer will go off when motion is detected. Daily Schedule Exception	
	Push Notifications Receive push notifications when motion is detected. Daily Schedule	
பு Power	On-Screen Warning See on-screen warnings when system exceptions occur.	

Click **Settings** under **Email Alerts**, here you can set up the email parameters as below.

Server Type: Choose from **Gmail**, **Yahoo**, **Outlook**, or choose **Other** and manually the SMTP server.

Port: The SMTP port of your email.

Nickname: Set a sender name for your NVR.

Sender: Your email address for sending the alarm emails.

Password: The password of your email, for Gmail and Yahoo it's suggested to use the generated App password instead.

Recipient: Set the receiver email address. You can add up to 3 recipients.

Content: Set up what content you want the alarm emails to send. Choose from **Image**, **Image Only**, **Video** or **Text**.

Interval: Set the interval you want the alarm email to be sent. Choose from 30 Secs,1 Min, 5 Mins, 10 Mins or 30 Mins. For example, set the interval at 1 minute. The camera detects two motions within 1 minute, it'll still only send one alarm email.

reølink	< Back Email Settings		×
Camera	Server Type	Recipient	
Channel	Gmail 🗸 smtp.gmail.com		
🗮 Surveillance	SSL or TLS		
Alatural	Port	Content Image	
Wetwork			
💽 Storage		Interval	
	To protect your privacy and information, please add your personal email account as the sender.	5 Mins 🗸 🗸	
🗊 System			
பு Power	Apply		

After finishing the settings, please click **Apply** to save the settings. Then click **Test If Setup Succeeded** to see if the email test is successful.

Set up Email Schedule

Click **Daily Schedule** under **Email Alerts**. Select a camera, and then set a schedule when you want the email alerts to work. For cameras with person/vehicle detection you can also choose the **Alarm** type from **Any Motion**, **Person** or **Vehicle**.

coolick	< Back	×
	Email Alert Schedule	
Camera	<u>∞</u> 523wa ∽	
Channel	Send Emails When Camera Disconnected	
⊞ Surveillance	Alarm	
() Network	Any Motion Z Person Vehicle	
Q Storage		
😰 System	Tue	
	Wed	
	Thu	
	Pri se	
	Jal	
	- 🔽 🖌	
	Enable	
	Select the enable or disable button to set up weekly schedule.	
U Power	Applies to Other Camera(s)	

Set up Exception Alert Emails

Click **Exception** under **Email Alerts**, you can set to send an alert email when the HDD is full or there's an HDD error.

realick	< Back	×
	Email Alerts for System Exceptions	
Camera	Select the system exception(s) that triggers email alerts:	
Channel	V Full HDD	
🗮 Surveillance	V HDD Error	
Metwork		
Storage		
😰 System		
U Power		

Buzzer

You can set up the NVR to make an alert beep sound when a motion is detected. Go to **Surveillance** > **Buzzer**, click to enable buzzer.

	Record Record Important moments around your property. Settings Daily Schedule		×
Channel	Email Alerts Get notified by emails of important moments. Settings Daily Schedule Exception		
 Metwork Storage 	FTP Back up important recordings remotely. Settings Daily Schedule		
System 5	Buzzer NVR buzzer will go off when motion is detected. Daily Schedule Exception	~	
	Push Notifications Receive push notifications when motion is detected. Daily Schedule	•	
U Power	On-Screen Warning See on-screen warnings when system exceptions occur. Exception		

Click **Daily Schedule** under **Buzzer**. Select a camera, and then set a schedule when you want the buzzer to work. For cameras with person/vehicle detection you can also choose the **Alarm** type from **Any Motion**, **Person** or **Vehicle**.

Check the option **NVR buzzer will go off when camera disconnect from network**, it'll also make a beep sound when the camera is disconnected.



Click **Exception** under **Buzzer**, here you can choose which exception the NVR will buzzer. Choose from options **Full HDD**, **HDD Error**, **Disconnected Network** or **IP Conflict**.



Push Notification

Push notification is a text message that pops up from the Reolink App on your mobile phone when the camera detects a motion.

Go to **Surveillance** > **Push**, here you can set up the **Push Notification Schedule**. Select the camera, and then set a schedule when you want the push notification to work. For cameras with person/vehicle detection you can also choose the **Alarm** type from **Any Motion**, **Person** or **Vehicle**.

realick	< Back	×
I CBIII IK	Push Notification Schedule	
Camera	of Camera1	
Channel	N N	
∷ Surveillance	Alarm	
Wetwork	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
🖸 Storage		
🈰 System	Wed	
	Sat	
	Enable Disable	
	Select the enable or disable button to set up weekly schedule.	
ር Power	Applies to Other Camera(s)	

Click Applies to Other Cameras to quickly copy the settings to other cameras.

On-Screen Warning

Go to **Surveillance** > **On-Screen Warning** to enable this option.



Then click **Exception** under **On-Screen Warning**. Choose which exception to trigger the on-screen warnings from options **Full HDD**, **HDD Error**, **Disconnected Network** or **IP Conflict**.

ceeliok	< Back	×
I CENINK	On-Screen Warning	
💼 Camera	Select the system exception(s) that triggers on-screen warnings:	
Channel	🗌 Full HDD	
E Surveillance	HDD Error	
Altered	V Disconnected Network	
Hetwork	IP Conflict	
🖸 Storage		
📚 System		
U Power		

Set up FTP

With FTP settings, you can set up the NVR to upload images or videos to the FTP server as scheduled or when motion is detected.



Go to **Surveillance** > **FTP**, click to enable this option.

Click **Settings** under **FTP**, here you can set up the below parameters of FTP. User Manual Server Address: Enter the domain name or IP address of your FTP server.

Port: Enter the port of your FTP server. The default port is 21.

Username: Enter the username of the FTP server, please make sure to use a user account with read & write access to the FTP server.

Password: Enter the password of your FTP server user account.

Remote Path: Enter the path on the FTP server where you want the NVR to upload videos or images. Please use a path that already exist.

File Size: Set the maximum size of the file from 10~1024MB.

Subfolder by Date: Enable this option, it'll upload the video and images to different folders according to the date.

Content: Choose from **Clear**, **Fluent**, **Standard** or **Image Only**. Clear, fluent and standard modes refer to the quality of the video.

Transmission Mode: Choose from Auto, PORT or PASV. It's suggested to keep it as Auto.

reølink	< Back FTP Settings	×
💼 Camera		
Channel		
	Port	
	21 (1~65535)	
Metwork		
Storage	Anonymous	
😰 System		
	Subfolder by Date	
ပ် Power	Apply	

Postpone: Set the length of the recordings uploaded to the FTP server. Choose from **15 Secs**, **30 Secs**, **1 Min**, **5 Mins**, **10 Mins** and **30 Mins**.

After finishing the settings, please click **Apply** to save the settings. Click **Test If Setup Succeeded** to test if the FTP settings are successful.

5. Replay and Download Recordings

Replay Recordings



Click 💽 icon on the live image screen to enter the playback page.

Click to select max 4 cameras, then click **Apply**.



Note:

If you choose a camera that is 8MP or above, it can only support one channel playback. For cameras that are less than 8MP, it can support up to 4 channel playbacks.

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At **Select Date**, click on the date it'll search the recordings automatically to play.

Check option **Alarm Only**, it'll only show the alarm recordings for playback. For cameras with person/vehicle detection you can also choose the **Alarm** type from **Any Motion**, **Person** or **Vehicle**.



Buttons on the Playback Window

lcon	Meaning
Δ	Speed Down: Play the recording at a slow speed to view more details.
Ъ	Frame-by-Frame: Play the recording frame by frame, not to miss any details.
۵	Smart Playback: Replay the recording at a normal speed when there's motion and replay at 4x speed when there's no motion.
\$	Backward: Click to rewind at 2x/4x/8x/16x speed.
20	Forward: Click to fast forward at 2x/4x/8x/16x speed.
Ш	Pause: Click to pause playback.
	Play: Click to play the recording.
Ø	Sound: Click to turn on sound for playback.
ж	Cut: Cut a short clip for downloading.

Download Recordings

Cut and Download

Connect a USB drive to the USB port of the NVR for downloading the recordings. Click Sicon on the live image screen to enter the playback page. Select the camera and date to search the recordings to play back.

At the bottom of playback page, click **Solution** to cut a clip of recording. Drag on the timeline to set the start time and end time for the cut. Then click **Save**.



Choose the storage disk to save the cut recording clip. Check the option **Back Up MP4 File**, it'll convert the recording into mp4 for saving. And then Click **Start**.

					×
Back Up	File Name	Modify Time	Size	Operate	
Choose Storage Disk	Scfee35af8ed4afa6995871be0f	ff9 2015/05/23 16:32:06			
USB-1 v	1.xls				
	.offits_path			۵	
Storage	office2016&Win10????.rar				
5.46 GB / 7.00 GB Pointat	chat??.rar			۲	
Back Up MP4 File(s)	??.xisx				
	fragment_07_20180823192206.	mp4 2018/08/23 12:50:44		•	
Start	??.doc.baiduyun.uploading.cfg				
Back					
	к < 1 2			Refresh	

Back up Recordings

Right click on the live image screen, then click 🔛 to enter the backup page.

Back Up	Channel	Start Time	End Time	Duration	Size	Operate	×
Choose Camera All 1 office 2 of e20a 3 of 123 4 2 5 s23we Choose Video Type Manual Alarm Timer Select Start and End Time 2021-09-10 00:00:00							

Choose the cameras you want to search recordings for. **Choose Video Type** from **Manual**, **Alarm** or **Timer**. Then select the start and end time, click **Search**.

Back Up	Ch	annel	Start Time	End Time	Duration	Size	Operate	>	<
Choose Camera 🔽 All	Ch	annel01					€		
01 office	Ch	annel01					\odot		
03 123	Ch	annel01					⊙		
04 2	Ch	annel01					\odot		
✓ 05 523wa	Ch	annel01					lacksquare		
Choose Video Type	Ch	annel01					\odot		
🔽 Manual 🛛 🔽 Alarm	Ch	annel01					\odot		
Timer	Ch	annel01					\odot		
Select Start and End Time	Ch	annel01					lacksquare		
2021-09-10 00:00:00	Ch	annel01					\odot		
2021-09-10 23:59:59	Ch	annel01					\odot		
Search	Ch	annel01					۲		
	K K 🤇	2	3 4 > X						

Select the recordings from	the searched recor	ding list, then click	< Backup.
----------------------------	--------------------	-----------------------	-----------

Back Up	Channel	Start Time	End Time	Duration	Size	Operate	×
Choose Camera All	Channel01					۲	
01 office	Channel01					⊙	
02 820a 03 123	Channel01					⊙	
2 04 2	Channel01					\odot	
✓ 05 523wa	Channel01					⊙	
Choose Video Type	Channel01					⊙	
🔽 Manual 🛛 🔽 Alarm	Channel01					ତ	
V Timer	Channel01					⊙	
Select Start and End Time	Channel01					⊙	
	Channel01					⊙	
2021-09-12 23:59:59	Channel01					⊙	
Search	Channel01					⊙	
	Total: 484.00	MB					
	К < 🕦 2	3 4))			В	ackup	

Choose the storage disk to save the cut recording clip. Check the option **Back Up MP4 File**, it'll convert the recording into mp4 for saving. And then Click **Start**.

ack Up	File Name	Modify Time	Size	Opera	te	
Choose Storage Disk	Scfee35af8ed4afa6995871be0fff9				۲	
USB-1 v						
	.offlts_path				۲	
Storage	office2016&Win10????.rar					
3.40 GB / 7.00 GB / Pointat	chat??.rar				۲	
Back Up MP4 File(s)	??.xlsx					
	fragment_07_20180823192206.mp4				0	
Start	??.doc.baiduyun.uploading.cfg					
Back						
	1 2			Refr	esh	

Delete Recordings

The NVR system doesn't support deleting selected recordings. The NVR will automatically delete and overwrite the older recordings when the HDD is full. Or you can manually format the HDD to delete all recordings.

6. Storage

Go to **Storage** page, here you can see the status of the HDD. Click **Format**, it'll delete all the recordings on the HDD to for formatting.

reøli∩k	Storage						×		
🗖 Camera									
Channel	۵	1848 GB	48.91 GB	Yes	Yes				
I Surveillance									
Wetwork									
O Storage				e the hard disk	will be removed	if you			
🎓 System				Cancel	Forma	t			

7. Network and Connection

View NVR Network Status

Click Network > Network Status, here you can view the IP address, Default Gateway and DNS of the NVR.

reølink	Network Status General Advanced	×
Camera	Network Access Local DHCP	
Channel	IP Address	
E Surveillance	Subnet Mask 255 255 0	
Q Storage	Default Gateway	
🏚 System	Preferred DNS Server 192.168.221.1	
	Alternative DNS Server	
() Power		

Set Static IP for the NVR

Click Network > General, here change Network Access from DHCP to Static. Then enter the IP address, Subnet Mask, Default Gateway, DNS Server manually, and click Apply to save the settings.



Set up DDNS

Click Network > Advanced, then click DDNS Settings.



Register an No-IP or DynDNS DDNS first, then enable DDNS to enter the parameters. Click **Apply** to save the settings.

ceeliok	< Back
I CENII K	DDNS Settings
Camera	
Channel	Туре
🚍 Surveillance	
our remance	If you don't have a no-ip domain name, go to www.no-ip.com to register one
Metwork	Server Address
O. Storage	
A System	
System	
	Username
	Password
<mark>ሀ</mark> Power	Арріу

Set up NTP Settings

Click Network > Advanced, then click NTP Settings.

re⊚li∩k	Network Status General Advanced	×
Camera	Dynamic Domain Name Server DDNS Settings	
Channel	Network Time Protocol	
₩ Surveillance		
Metwork		
O Storage		
🏠 System	ONVIF Protocol	
U Power		

Choose a **Server Type** to change the NTP settings. Click **Synchronize** to sync the NVR data and time to the NTP server immediately. Click **Apply** to save the settings.

reølink	< Back NTP Setti	nas
Camera		J -
Channel		
☱ Surveillance	Port 123	
Metwork	CO Auto Sy	inc
Q Storage		
😰 System		
U Power	Apply	

To customize the NTP server, under **Server Type** please choose **Other**. Then you can manually enter the parameters of your own server.

reølink	< Back		
	NTP Settin	igs	
Camera			
Channel			
-			
:= Surveillance			
Metwork	🗾 Auto Syr		
🖸 Storage			
Custom			
System			
ပ် Power			

Set up IP Filter Settings

reelink	Network Status General Advanced	×
Camera	Dynamic Domain Name Server DDNS Settings	
Channel	Network Time Protocol NTP Settings	
E Surveillance	IP Filter	
Storage	Port Setting	
💼 System		
	ONVIF Protocol	
ር Power		

Click Network > Advanced, then click IP Filter Settings.

Choose **Enable White List** or **Enable Black List**, then click on **Add IP**. Manually enter the IP address you want to allow or block access, then click **OK** to save the change.

realick	< Back			
	IP Filter Setti	ngs		
Camera	O Disable O Ena	ible White List 🛛 🔘 Enable B	lack List + Add IP	
Channel		All Type 🗸 🗸		
📰 Surveillance				
Metwork		Add IP		
O Storage		IP Address		
😰 System		Туре		
		Senable Black	List	_
		Cance	el OK	-
ပ် Power			Delete All	

Choose option **Disable** to turn off the IP filter settings.

Change the Port Settings of NVR



Click Network > Advanced, then click Port Settings.

Here you can view the current ports of the NVR and change the port numbers.



Enable UPNP



Go to **Network > Advanced**, click to enable **UPNP** option.

Enable ONVIF



Go to Network > Advanced, click to enable ONVIF Protocol.

8. System Management

General

At **System > General** page, you can set up the settings below.

Device Name: Set a name for the NVR.

Screen Resolution: Set a display resolution on the NVR monitor.

Scrollview Time: Set a time for the scrollview. For example, set it as 5 sec, then it'll automatically switch to the next screen of the camera's live image after every 5 seconds.

Auto Lock Time: Set the time for locking the screen automatically, choose the option from 1 min, 5 min, 10 min or None. Choose None, the NVR will not automatically lock the screen. Check the option "Require account and password verification to unlock screen", then it'll ask for the NVR password at the set time to unlock the screen.

reølink	General Time and Language Account Center Maintenance Info	×
🗖 Camera	Device Name	
Channel		
🔚 Surveillance		
Wetwork	Scrollview Time 5 sec. V	
Storage	Auto-Lock Time	
💿 System	5 min.	
	Allow to go back to previous page with a right-click.	
	Mouse Sensitivity	
() Power		

Time and Language

Go to **System** > **Time and Language** page, enable DST you can set the daylight saving time according to your need.

reøli∩k	General Time and Language Account Center Maintenance Info	×
💼 Camera	Language Time Offset	
📰 Channel		
⊞ Surveillance ∰ Network	Time Zone Start Time (UTC-8:00) Pacific Stant V Mar. V 2nd week V	
Storage	Date Format Sun. V 02 0	
System	Time Format Oct. V The last week v 24-hour Sun. V 02 0 00 0 00 0 System Time 12-10-2021 23:43:302 • Network Time Protocol NTP Settings Adjust for Daylight Saving Time OC DST	
() Power		

And click Language to choose the display language for the NVR.



Account Center

reølink	General Time and Language Account Center Maintenance Info	×
Camera	Current Account admin (Super Account) Password Protection Settings	
E Surveillance	+ Add Account Account Name All Type V Operate	
Storage		
	General Account General accounts can view and operate camera but cannot set related parameters.	
() Power	Admin Admins can view and operate camera, set related parameters but cannot add/remove super admin. Super Account Super account can view and operate camera, set related parameters, and edit other accounts.	

Go to **System** > **Account Center** page, here you can change the password of the NVR and add other user accounts.

Click dot change the password of the current account. Firstly, enter the old password, then enter the new password and confirm the new password, click **OK** to save the change.

reølink	General Time and Language Account Center Maintenance Info	×
Camera	Current Account admin (Super Account) Password Protection Set	
Surveillance	+ Add Account Account Name Edit Password	
∰ Network ☑ Storage	Username: admin	
💽 System	Old Password: Password:	
	Confirm Password: Forget Password	
	Cancel	
	General Account General accounts can view and operate camera but cannot set related parameters.	
ပ် Power	Admin Admins can view and operate camera, set related parameters but cannot add/remove super admin. Super Account Super account can view and operate camera, set related parameters, and edit other accounts.	

Click **Password Protection Settings**, you can set a security question with answer to protect your password. In the case you lost the login password, you can retrieve the password via the security question.

reelink	Password Security Set up password security questions to retrieve password when you forgot yours.						
💼 Camera	when is my bd? Question						
Channel	(At Most 255 Characters)						
🗮 Surveillance	(At Most 255 Characters)						
Wetwork							
🖸 Storage							
💿 System							
ር Power	Back Apply						

Click Add Account, enter the Username and Password. Choose account Type from General Account or Admin, then click OK to add the account.

reelink	General Time and La	inguage Account	Center Maintenance	Info		×	
Camera	Current Account admin (Super Account) Password Protection Settin						
E Surveillance	+ Adi Account Account Name	Add Accoun	t				
Storage		Username: Password:					
😰 System		Confirm Password:					
		Cance	ОК				
	Concel Assess Concel account						
deneral Account Vervan accounts can view and operate camera but cannot set related parameters. Admin Admins can view and operate camera, set related parameters but cannot add/remove super admin.							
ပ် Power	Super Account Super account c						

The difference of different user accounts as below:

- General Account: can view and operate camera but cannot set related parameters.
- Admin Account: can view and operate camera, set related parameters but cannot add/remove super admin account.
- Super Account: can view and operate camera, set related parameters, and edit other accounts.

Click 🔟 to delete an account, and click 🞯 to change the password of the selected account.

reølink	General Time and La	anguage Account Co	enter Mainten	ance Info	×
Camera	Current Account				
Channel					
∷ Surveillance	+ Add Account Account Name	All Type 🗸			
Metwork		Admin	0		
🖸 Storage			0		
💽 System					
	General Account General account Admin Admins can view				
U Power	Super Account Super account of				

Maintenance

Go to **System** > **Maintenance** page, here you can set up auto reboot, upgrade the device or restore the system to default.

Click to enable **Auto Reboot**, you can set the NVR to automatically reboot at a weekly or daily base.



Upgrade the Firmware

Before upgrade, please download the firmware file from <u>Download Center</u>. Unzip it and copy the file to a USB drive, then plug the USB drive to the USB port of the NVR.

To upgrade the firmware for NVR, please click **Upgrade**. Choose the firmware file to upgrade.

To upgrade the firmware for Camera, please click **Upgrade IPC**. Click **Local Upgrade** and choose the firmware file to upgrade.

Attention for firmware upgrade:

- If you don't want to restore your camera settings to factory status, please uncheck the "**Update Configuration Files**" option during the upgrade.
- During the upgrading procedure, please do not power off the camera.
- Make sure your camera or NVR has the same model and hardware version that matches the new firmware you're able to upload.

Info

Go to **System** > **Info** page, here you can see the model of the NVR, its hardware version and firmware version, the UID numbers.



9. FAQs and Troubleshooting

FAQs

1. How many cameras can I connect to this NVR?

A: For RLN8-410, you can connect up to 8 cameras. For RLN16-410, you can connect up to 16 cameras.

2. What to do if I lost login password of the NVR?

A: Login password of NVR can be restored by pressing a hard reset button or restored via Reolink software. If the camera isn't accessible by software, you can also use security password on the monitor to retrieve the password.

3. Can I connect the NVR to two monitors at the same time?

A: The NVR can plug into up to two monitors via the HDMI and VGA ports. It will display all the cameras connected to the NVR on each monitor simultaneously.

4. How to connect the NVR to a router?

A: The NVR can be connected to a router only via the Ethernet cable.

5. What's the max Ethernet cable length between the camera and NVR? A: The Ethernet cables for all PoE ports of the NVR is up to 270 feet for Cat5. If you use Cat6 or upper, the Ethernet cables can be up to 330 feet. Note, NVR can use CAT5, CAT6 or CAT7 with 8 PIN Ethernet cable.

6. Which camera models are supported to work with the NVR? A: Except Reolink battery-powered cameras, all other cameras can work with the Reolink PoE NVR. Note to use the cameras with same or lower resolution as the NVR itself.

7. Can this NVR work with Smart Home?

A: The NVR system or camera connected to the NVR directly doesn't support working with Smart Home.

8. Can I use the camera without directly connecting to the NVR?A: Yes, Reolink cameras can be connected to a router or PoE switch that is as the same local network as the NVR, and you can still add the cameras to NVR to use.

9. Can I connect a Wi-Fi camera to the PoE NVR?A: Yes, connect the Wi-Fi camera to the same router as the PoE NVR, then the camera can be added to the NVR.

10. Can I use the NVR system without internet access? User Manual A: Yes, the NVR can be used locally with the monitor. Only that the functions that require internet network access won't work anymore.

Troubleshooting

1. Camera shows video loss/connection failed on the NVR monitor.

The camera is connected to the NVR, but on the monitor screen the camera doesn't display the live video but shows as video loss or connection failed. Please check troubleshooting steps below to fix the issue.

Cause 1. Incorrect camera password.

Solution:

Log into the NVR and go to Menu -> IP Channel or Channel Management to check the Status of the channel with Video Loss. For older UI, If it shows Invalid PWD, please drag the bar in the bottom to the right to enter the correct password of your camera, then click Apply to save the change. For new UI, please click Modify to directly enter the correct password of the camera.

In the case you forgot the camera's password, please directly press the reset button on the camera to hard reset it.

Cause 2. The camera is not properly connected to the NVR.

Solution:

(1) Please check whether the network cable is plugged into the RJ45 port tightly.

(2) If the connection is tightened, please observe the port LED lights.

When the connection is normal, there must be flashing yellow light and solid green light.

If the port LED lights don't turn on, please change another working network cable and another working PoE port to connect the camera to the NVR, then check whether the port LED lights will turn on.

If the green light turns on but the yellow light doesn't flash, please scan the IP channel again to check whether there is a camera scanned but failed to connect to NVR. If there is no scanned camera, please check whether the camera can work again.

Cause 3. The camera is not powered by the NVR.

Solution:

Please check the solution for "Camera cannot be powered properly by the NVR".

Cause 4. The camera is not assigned the Channel.

Solution:

This is mainly for PoE NVR with older UI. Please select a unique channel number for the camera, and then click Apply. If all channels are taken, please change the User Manual

offline camera's channel to None then assign that channel to the camera.

Cause 5. The NVR itself isn't working properly.

Solution:

If the camera is powered on and has connected to NVR properly but still cannot show live video, please restore the NVR to default to check again.

2. Camera cannot be powered properly by the NVR.

For PoE cameras that are connected directly to the PoE NVR but cannot be powered on or the camera is dead, please check the troubleshooting steps below.

(1) Cover the camera lens to check if the IR lights of the camera turn red in dark.

(2) When connecting the camera to NVR, please check if the LEDs on the PoE port are on.

(3) Please change another Ethernet cable and PoE port on NVR.

(4) If the camera still won't power on, please reset the camera by pressing the reset button on the camera.

(5) Use a 12V DC power adapter to power the camera instead.

3. Cannot access the NVR remotely.

Please check the troubleshooting steps below for the issue that NVR cannot be accessed remotely.

Firstly, please ensure the NVR is accessible from the same network. Then check the listed steps below.

(1) Please ensure the NVR's UID is enabled. You can check it on the NVR monitor, go to System > Info page, here enable the option "Allow other Reolink software to access current device via UID".

(2) Please add the NVR to Reolink App or Reolink Client software by its UID.

(3) Check Sync NTP to see if it's successful. On the NVR monitor, go to Network > Advanced, then click NTP Settings. Click Synchronize to sync the NVR data and time to the NTP server immediately. If it's unsuccessful, that means the NVR isn't connected to the internet.

(4) Check the router firewall settings. Ensure it has allowed the NVR to connect internet, and please make sure that the UDP port is enabled on your router.

(5) Ensure the phone or computer itself has internet access, and has allowed the Reolink App or Reolink Client software to access internet.

(6) Please check there's no firewall, proxy or VPN on the phone and computer that might block the NVR to connect.

(7) Ensure the network connection has enough bandwidth to stream the video, you can switch to fluent mode to help connect the live video.

Note, if the UID of your NVR starts with XCPTP, please contact <u>Reolink Support</u> to get help.

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4. NVR has no display on the monitor screen.

When the NVR is connected to a monitor, but it has no display, please check the troubleshooting tips below.

Cause 1. The video output resolution of the NVR is not supported by the monitor. Solution:

- Ensure the lowest resolution of the TV/monitor is no less than 720p, or it won't be able to display any video from the NVR.
- Power on the NVR to see whether the Reolink logo will be displayed on the screen.
- Try to log into the NVR locally on Reolink Client and change the output resolution of the NVR and try again.

Cause 2. The system program is frozen when booting up.

Solution:

If the NVR was once working properly, power on the NVR to see if the Reolink logo will be displayed on the screen but then turn to black.

<u>Contact the support team</u> with your device model for a repair tool to fix the issue.

Cause 3. HDMI/VGA cable or the TV/monitor is defective.

Solution:

- Check whether the cable is defective by using it to connect other devices to see if it works.
- If it doesn't work, please use another HDMI/VGA cable that is shorter than 15 m and try again.
- Try with another monitor.

Cause 4. HDMI/VGA port on the NVR is defective.

Solution:

- Ensure the cables and TV/monitor you used are working properly.
- Try to log in to the NVR via Reolink App or Reolink Client on the same network to see if it will work.

Cause 5. NVR cannot be powered on.

Solution:

- Ensure the power outlet is working. If not, please plug the NVR power adapter into another outlet.
- Check whether the LED on the DC power adapter is on.
- Check the LEDs status on the front panel of the NVR.

If the problem still cannot be solved, please <u>contact the support team</u> with the test results.

5. Forget the password to login the NVR.

If you still have a phone or computer that can access the NVR, please directly restore the NVR via the software. After restoration, you can create a new password.

- For Reolink App, go to NVR Settings > Advanced page, click Restore.
- For Reolink Client, go to NVR Settings > System > Maintenance, click Restore.

If currently no device has access to the NVR, you can reset it via the monitor with Super Password (for old UI) or security question (for new UI). Or directly press the reset button within the NVR.

- For using super password, please refer to: Use Super Password to Reset the Admin Password on Reolink NVR.
- For using security question, please click Forget Password on the monitor screen, enter the answer for your security question to reset the NVR password.
- For resetting the NVR, please open the box of the NVR. Keep the monitor screen on the live video page, then press and hold the reset button for 5-10 seconds.



6. NVR cannot detect the HDD.

For the issue of NVR cannot properly detect or recognize the HDD, please check the troubleshooting steps below.

Cause 1. The compatibility issue between HDD and NVR. Solution:

If you added an HDD yourself, please check the size and type of the HDD referring to the <u>HDD compatibility list</u>. For the supported HDD size, please check it via the hardware version of the NVR.

Please note, the HDD designed for PC can't work with the NVR.

Cause 2. The firmware version of the NVR is outdated.

Solution:

Please check firmware version of the NVR on the Info page, and download the

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latest firmware from <u>Download Center</u> to upgrade it. **Cause 3.** The connection of the HDD is lost. Solution: Unplug the HDD then re-plug it.

Cause 4. The format of the HDD is wrong. Solution: Please format/init the HDD on the NVR monitor to try again.

Cause 5. NVR software issue. Solution: Please restore the NVR to default.

Cause 6. Defective HDD.

Solution: Change another HDD to test whether it's the problem of a bad HDD.

7. NVR reboots itself automatically.

NVR reboots itself automatically may behave with any of the phenomena below:
NVR reboots constantly.
NVR reboots randomly (for example 2-3 times per day).
Random gaps in the playback timeline. (All channels lost the recordings at the same time, and the gap is greater than 30s.)
A lot of "startup" on the NVR's log page.

Cause 1. UPS issue.

Solution:

If you use the UPS to power the NVR on, please plug the NVR directly to a wall socket and have it run one or two day(s) then check if the NVR reboots. If the NVR doesn't reboot, the issue should be on the UPS. Please make sure the UPS's wattage is higher than the NVR adapter's wattage. If the NVR still reboots, please refer to the following troubleshooting tips.

Cause 2. The HDD issue.

Solution:

Please unplug the HDD and have the NVR run one or two day(s), then check if the NVR reboots.

Cause 3. The NVR and the cameras are both being grounded.

Solution:

Please unplug all the cameras from the NVR and have the NVR run on its own for one or two day(s) and check if it still reboots. Please disable auto-reboot before you run the test. If the NVR doesn't reboot, the issue may be caused by both the NVR and the cameras being grounded. Then please unground either the NVR or the cameras to fix the issue.

Note: The NVR carries out the lightning protection and grounding treatment on its own and if users also ground the cameras, it will cause a certain potential difference. And when the potential difference is higher than 64V, it will trigger the NVR'S protection mechanism and the NVR will power off itself.

A: Unground the cameras to fix the issue

In this case, please do not ground the cameras additionally. Check if you connect the cameras to the ground wire of your house. If yes, please disconnect the cameras from the ground wire. And please do not install the cameras on the metal wall or ceiling etc. If you have to install the camera on a metal wall or ceiling in your situation, you may add an insulator between the camera and the wall/ceiling to have it ungrounded. Please refer to the picture below and install the insulator.



B: Unground the NVR to fix the issue

Please unground the NVR and the monitor connected to the NVR. Note: In this case, please don't put either the NVR or the monitor on the metal plate/shelf.

(1) You may cut off the grounded pin on the plug on both the NVR and the monitor to have it ungrounded.

(2) You may use a 3 pin-to-2 pin converter on both the NVR and the monitor to have it ungrounded. And you may use the converters below to have the NVR not grounded. Please pay attention to the version of the converter and make sure to order the correct version. For example, If the NVR is installed in the US, please order the US version of the converter.

<u>converter 1</u> <u>converter 2</u>

<u>converter 3</u>

If you use converter 2, please do not have the third pin grounded.

Cause 4. Insufficient power supply.

If the NVR doesn't reboot when fewer cameras are plugged, the issue may be caused by the two reasons below.

Reason 1: If you unplug one or two certain camera(s) and the NVR won't reboot anymore, the issue is probably caused by the NVR and the cameras both being grounded. Please refer to Cause 3.

Reason 2: If you unplug one or two camera(s), the NVR won't reboot anymore. In this way, the issue is probably caused by the insufficient power supply. Please refer to how many cameras can I add to the NVR.

Note: A power adapter is included in each package of the NVR, but you can also purchase a third-party adapter. Be aware that the ratings of the power adapter of 16-channel Reolink PoE NVRs should be DC 48V 2.5A and 8-channel Reolink PoE NVRs should be DC 48V 2A.

8. NVR cannot be accessed by Reolink software locally.

For computer or phone that's on the same network cannot access the NVR, please check the troubleshooting steps below.

Cause 1. The NVR isn't connected to a router.

Solution:

Please power on the NVR, and connect it to a router by the Ethernet cable.

Cause 2. The NVR failed to obtain IP address information from a router.

Solution:

Please make sure the DHCP server on the router is enabled, so it can assign an IP to the NVR.

Go to NVR monitor, check Network > Network Status, here you can view the IP address, Default Gateway and DNS of the NVR. Ensure they all have numbers.

Cause 3. The LAN port of the NVR is defective.

Solution:

Please check if there's a status LED on the LAN port of the NVR. Use another Ethernet cable to connect the NVR and router.

Cause 4. The NVR and computer/phone are not on the same network.

Solution:

Please ensure you don't have several subnet masks in the network, and connect the NVR and computer/phone to the same router directly.

9. NVR cannot be powered on anymore.

If the NVR itself cannot be powered on, please check the troubleshooting steps below.

Cause 1. The power adapter issues.

Solution:

Check the status LED on the power adapter of the NVR. If the LED isn't on, please plug the power adapter into another socket as well as change another working power adapter (48V) for a try. If the LED is on, please check the HDD issue below.

Cause 2. The HDD issues.

Solution: Please unplug the HDD and check if the NVR will power on without HDD.

Cause 3. The voltage is not sufficient.

Solution:

Unplug all cameras. If the NVR power LED is on, please re-plug the camera in sequence to see how many cameras the NVR can provide power normally before the issue started.

10. Camera randomly disconnects from the NVR.

If you found that the cameras disconnect and show video loss/connection failed randomly on your NVR monitor, or the camera loses recordings randomly, here are some possible causes and solutions for your reference.

Cause 1. Poor connection between camera and NVR.

Solution:

(1) If you connect your camera to the NVR via the Ethernet cable directly, please make sure that the length between them is less than 260 feet.

(2) Please change with another short cable and plug it into another PoE port. If possible, please connect only one camera to the NVR to test whether the issue still exists.

(3) Please lower the bitrate of the camera and check if the issue can be fixed.

If you connect the camera to the router by PoE switch/injector and add your camera to the NVR, the issue may cause by the poor network of the router. (1) Please reboot the router and camera to try again.

(2) If you have connected several devices to the router, please only connect the camera to the router to test the issue.

(3) Please also lower the bitrate of the camera and check if the issue can be fixed.

(4) Please connect the camera directly to the PoE port of the NVR to check whether the issue still exists.

Cause 2. Software issue.

Solution:

Please check the firmware version of the camera and NVR, keep both of them updated.

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Cause 3. Incorrect power supply for the NVR.

Solution:

(1) It might be the problem of the NVR's power adapter. Please try again with a different power outlet and power adapter.

Note: For the 8 channel PoE NVR the power adapter is 48V 1.87A. And for the 16 channel PoE NVR, it's 48V 2.5A.

(2) If you have a 12V DC adapter on hand, you may use the adapter to power the camera and connect the camera directly to the router. Please check again whether the camera displays video loss on your NVR.