

Comprehensive Guide to Reolink NVR Hardware Versions

Reolink Network Video Recorders (NVRs) come in various hardware versions, each designed to support specific types of cameras, including PoE cameras, non-battery Wi-Fi cameras and battery-powered Wi-Fi cameras. This article provides a comprehensive guide to understanding the different Reolink hardware versions and their supported camera models, along with important notes and considerations.

Applies to: Reolink NVRs

Table of Content

- [1. Supported Camera Types & Key Features](#)
- [2. NVR-Compatible Battery-Powered Cameras](#)
- [3. Important Notes](#)
- [4. Related Articles](#)

1. Supported Camera Types & Key Features

The table below lists the supported camera models, key features, and technical specifications based on the NVR model and hardware version. You only need to check the NVR hardware version, know the resolution and type of your camera to determine whether it supports the corresponding features.

- **Power-Supplied Cameras (Non-Battery)**
Most Reolink NVRs support all power-supplied cameras except those with very high resolutions.
- **Battery-Powered Wi-Fi Cameras**
Some NVR versions support battery-powered cameras after upgrading to firmware version 3.5 or later (camera firmware updates may also be required).
- **Key Features and Technical Specifications**
 - **Smart Person/Vehicle Detection:** Advanced detection features enhance system efficiency on select models.

- Maximum Single HDD Capacity: Varies among models, ranging from 4TB to 16TB.
- Interface Information: The NVR models feature either New UI or Old UI interfaces.
- Continuous Recording for Battery-Powered Cameras: Currently supported only on the following models with the latest [firmware version v3.5.1](#): RLN8-410 (N7MB01), RLN16-410 (N6MB01), RLN36 and RLN12W. Please note that for continuous recording to be supported by the NVR, the camera itself must have continuous recording capability.

NVR Name	NVR Hardware Version	NVR-Supported Cameras	Key Features
RLN8-410-E PoE NVR	H3MB16	<p>√ Supports Reolink 4MP/5MP/8MP non-battery Wi-Fi and PoE cameras, except Duo and TrackMix series.</p> <p>× Does not support battery-powered cameras.</p> <p>Note: Newer cameras may not be fully compatible with this older NVR model, potentially leading to functionality issues or unusable cameras.</p>	<p>1. × Does not support smart person/vehicle detection</p> <p>2. Max. Single HDD Capacity: 4TB</p> <p>3. Interface: Old UI</p>
RLN8-410 PoE NVR	H3MB02	<p>√ Supports Reolink 4MP/5MP non-battery Wi-Fi and PoE cameras, except Duo and TrackMix series.</p> <p>× Does not support battery-powered cameras.</p> <p>Note: Newer cameras may not be fully compatible with this older NVR model, potentially leading to functionality issues or unusable cameras.</p>	<p>1. × Does not support smart person/vehicle detection</p> <p>2. Max. Single HDD Capacity: 4TB</p> <p>3. Interface: Old UI</p>
	H3MB18	<p>√ Supports Reolink 4MP/5MP/8MP/16MP non-battery Wi-Fi and PoE cameras & 1210A/1220A</p> <p>Note: This NVR hardware limits 16MP cameras to a maximum preview resolution of 6MP. Other</p>	<p>1. √ Supports smart person/vehicle detection</p> <p>2. Max. Single HDD Capacity: 6TB</p> <p>3. Interface: New UI</p>

		12MP cameras need to lower the resolution when displaying single-view preview. √Supports some battery-powered cameras starting from NVR firmware version v3.5.1.368_25010326.	4. √ Supports battery-powered continuous recording
	N2MB02	√Supports Reolink 4MP/5MP/8MP/16MP non-battery Wi-Fi and PoE cameras & 1210A/1220A. Note: This NVR hardware limits 16MP cameras to a maximum preview resolution of 6MP. Other 12MP cameras need to lower the resolution when displaying single-view preview. √Supports some battery-powered cameras starting from NVR firmware version v3.5.1.368_25010326.	1. √ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 6TB 3. Interface: New UI 4. √ Supports battery-powered continuous recording
	N3MB01	√Supports Reolink 4MP/5MP/8MP/16MP non-battery Wi-Fi and PoE cameras & 1210A/1220A. Note: This NVR hardware limits 16MP cameras to a maximum preview resolution of 6MP. Other 12MP cameras need to lower the resolution when displaying single-view preview. √Supports some battery-powered cameras starting from NVR firmware version v3.5.1.368_25010352.	1. √ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 6TB 3. Interface: New UI 4. √ Supports battery-powered continuous recording
	N7MB01	√Supports Reolink 4MP/5MP/8MP/12MP/16MP non-battery Wi-Fi and PoE cameras. √Supports some battery-powered cameras starting from NVR firmware version v3.5.0.321_24060733 (details below).	1. √ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 8TB 3. Interface: New UI 4. √ Supports battery-powered continuous recording
RLN16-410 PoE NVR	H3MB02	√Supports Reolink 4MP/5MP non-battery Wi-Fi and PoE cameras, except Duo and TrackMix series.	1. × Does not support smart person/vehicle detection

		<p>×Does not support battery-powered cameras. Note: Newer cameras may not be fully compatible with this older NVR model, potentially leading to functionality issues or unusable cameras.</p>	<p>2. Max. Single HDD Capacity: 4TB 3. Interface: Old UI</p>
	H3MB06	<p>√Supports Reolink 4MP/5MP non-battery Wi-Fi and PoE Cameras, except Duo and TrackMix series. ×Does not support battery-powered cameras.</p>	<p>1. × Does not support smart person/vehicle detection 2. Max. Single HDD Capacity: 4TB 3. Interface: Old UI</p>
	H3MB18	<p>√Supports Reolink 4MP/5MP/8MP/16MP non-battery Wi-Fi and PoE Cameras & 1210A/1220A Note: This NVR hardware limits 16MP cameras to a maximum preview resolution of 6MP. √Supports some battery-powered cameras starting from NVR firmware version v3.5.1.368_25010327.</p>	<p>1. √ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 6TB 3. Interface: New UI 4. √ Supports battery-powered continuous recording</p>
	N6MB01	<p>√Supports Reolink 4MP/5MP/8MP/12MP/16MP non-battery Wi-Fi and PoE Cameras √Supports some battery-powered cameras starting from NVR firmware version v3. 5. 0. 321_24060750 (details below).</p>	<p>1. √ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 8TB 3. Interface: New UI 4. √ Supports battery-powered continuous recording</p>
RLN36 NVR	N5MB01	<p>√Supports Reolink 4MP/5MP/8MP/12MP/16MP non-battery Wi-Fi and PoE Cameras √Supports some battery-powered cameras starting from NVR firmware version v3. 5. 0. 329_24061729 (details below).</p>	<p>1. √ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 16TB 3. Interface: New UI 4. √ Supports battery-powered continuous recording</p>
RLN4-410 PoE NVR	H3MB17	<p>√Supports Reolink 4MP/5MP/8MP non-battery Wi-Fi and PoE Cameras ×Does not support battery-powered cameras.</p>	<p>1. × Does not support smart person/vehicle detection 2. Max. Single HDD Capacity: 4TB</p>

		Note: Newer cameras may not be fully compatible with this older NVR model, potentially leading to functionality issues or unusable cameras.	3. Interface: Old UI
RLN12W Wi-Fi NVR	E/U	√Supports Reolink 4MP/5MP/8MP/12MP non-battery Wi-Fi and PoE Cameras √Supports some battery-powered cameras starting from NVR firmware version v3.5 (details below).	1. √ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 16TB 3. Interface: New UI 4. √ Supports battery- powered continuous recording
RLN4-211W Wi-Fi NVR	H3MB13	Supports RLC-211W, RLC-210W & RLC-410W-4MP	1. × Does not support smart person/vehicle detection 2. Max. Single HDD Capacity: 4TB 3. Interface: Old UI
RLN4-210W Wi-Fi NVR	H2MB11	Supports RLC-210W & RLC-410W- 4MP	1. × Does not support smart person/vehicle detection 2. Max. Single HDD Capacity: 4TB 3. Interface: Old UI
NVS8	-	√Supports Reolink 4MP/5MP/8MP/12MP/16MP non- battery Wi-Fi and PoE cameras. √Supports some battery-powered cameras starting from NVR firmware version v3.5.1.368_24120243.	1. √ Support smart person/vehicle detection 2. Max. Single HDD Capacity: 8TB 3. Interface: New UI 4. √ Supports battery- powered continuous recording
NVS16	-	√Supports Reolink 4MP/5MP/8MP/12MP/16MP non- battery Wi-Fi and PoE Cameras √Supports some battery-powered cameras starting from NVR firmware version v3.5.1.368_24120207.	1. √ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 8TB 3. Interface: New UI 4. √ Supports battery- powered continuous recording

NVS4	-	✓ Supports Reolink 4MP/5MP/8MP/12MP/16MP non-battery Wi-Fi and PoE Cameras ✗ Does not support battery-powered cameras. (Future support is currently under evaluation.)	1. ✓ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 6TB 3. Interface: New UI
NVS36	-	✓ Supports Reolink 4MP/5MP/8MP/12MP/16MP non-battery Wi-Fi and PoE Cameras ✓ Supports some battery-powered cameras starting from NVR firmware version v3.5.1.368_24120239 (details below).	1. ✓ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 16TB 3. Interface: New UI 4. ✓ Supports battery-powered continuous recording
NVS12W	-	✓ Supports Reolink 4MP/5MP/8MP/12MP non-battery Wi-Fi and PoE Cameras ✓ Supports some battery-powered cameras starting from NVR firmware version v3.5.1.	1. ✓ Supports smart person/vehicle detection 2. Max. Single HDD Capacity: 16TB 3. Interface: New UI 4. ✓ Supports battery-powered continuous recording

2. NVR-Compatible Battery-Powered Cameras

Refer to the table below for detailed NVR compatibility information on battery-powered cameras.

Camera Model	Compatible Camera Hardware Version	Availability
Argus Eco Pro	BIPC_566MIX16M35B2325MP	✓ Released, upgradable.
Argus Eco Ultra	BIPC_560MIX16M35B238MP	✓ Released, upgradable.
Argus Series B360	BIPC_560MIX16M35B238MP	✓ Released, upgradable.
Argus Series B320	BIPC_561MIX16M82B1653MP	✓ Released, upgradable.
Argus PT	BIPC_566MIX16M35SD965MP	✓ Released, upgradable.
Argus PT Ultra	BIPC_560MIX16M35SD938MP	✓ Released, upgradable.

	BIPC_NT2BN028MPW4SD97	√Released, upgradable.
Argus 3 Pro	BIPC_566MIX16M35C10F5MP	√Released, upgradable.
Argus 3 Ultra	BIPC_560MIX16M35C10G8MP	√Released, upgradable.
Argus 4 Pro	BIPC_NT7BN038MPW4C11V3	√Released, upgradable.
Argus 4	BIPC_NT7BN038MPW4C11	√Released, upgradable.
Argus PT Lite	BIPC_561MIX16M82SD953MP	√Released, upgradable.
Argus 2E	BIPC_561MIX16M82C973MP	√Released, upgradable.
Argus 2E Plus	BIPC_561MIX16M82C973MP	√Released, upgradable.
Argus Eco	BIPC_561MIX16M82B1653MP	√Released, upgradable.
Argus Track	BIPC_560MIX32M35SD118MP	√Released, upgradable.
TrackMix	BIPC_560MIX32M35SD724MP	√Released, upgradable.
Reolink Duo 2	BIPC_529MIX32M35B17B28MP	√Released, upgradable.
	BIPC_529MIX32M35B17B6MP	√Released, upgradable.
Argus 3 Pro	BIPC_566MIX16M35C10E4MP	√Released, upgradable.
	BIPC_523MIX32M35C10A4MP	√Released, upgradable.
Argus PT	BIPC_523MIX32M35SD94MP	√Released, upgradable.
	BIPC_523MIX32M86SD924MP	To be announced.
Argus 3 2K	BIPC_523MIX32M86C10D4MP	To be announced.
Reolink TrackMix	BIPC_523MIX32M35SD74MP	To be announced.
Argus Eco	BIPC_566MIX16M82B1643MP	To be announced.

Reolink Video Doorbell (Battery)	DB_560MIXDB32M35DBB14MP	√Factory-supported, no firmware upgrade needed.
Argus 3E	BIPC_NT1BN023MPW3C10H	√Factory-supported, no firmware upgrade needed.
Reolink Atlas PT	BIPC_NT14BN034MPW4SD13V2	√Factory-supported, no firmware upgrade needed.
Reolink Atlas PT Ultra	BIPC_NT14BN038MPW4SD13V4	√Factory-supported, no firmware upgrade needed.
Reolink Duo	BIPC_523MIX32M32B174MP	To be evaluated.
Reolink Argus 2E	BIPC_36S7616MC94 (C9-C95)	To be evaluated.
Reolink Argus Eco	BIPC_36S3216MGUN	To be evaluated.
Argus 2	BIPC_36S3216MC52	To be evaluated.
Argus PT	BIPC_36S3216MPT2	To be evaluated.
Argus 3	BIPC_36S3216MC83	To be evaluated.

3. Important Notes

- System Information Accessible Only on NVR Monitor: Once the camera is connected to the NVR, camera's system information can only be viewed on the NVR's monitor with HDMI/VGA cable connected, cannot be accessed via the Reolink App/Client. For detailed instructions, refer to [How to Find out Reolink Device System Information](#).
- Hardware Version Compatibility: Even NVR models with the same name may have different hardware versions, and firmware is not interchangeable between these versions. Always ensure you select the correct hardware version when upgrading. For detailed instructions, refer to [Reolink Firmware Update Guide](#).
- Accessing Battery-Powered Wi-Fi Cameras: After adding a battery-powered Wi-Fi camera to the NVR, standalone access via App/Client is no longer possible.
- Duo Series Cameras Support: Some older NVR models (with Reolink old versions) have not been fully adapted to support the Duo series. For detailed compatibility information, refer to [Which NVR Can Work with Reolink Duo Series Cameras](#).

- 12MP Cameras Support: Some NVRs and certain 12MP camera models are also not fully compatible. For more details, refer to: [Which NVR Can Work with Reolink 12MP Cameras](#).

4. Related Articles

[Compatibility issue between Reolink Camera and NVR](#)

[Reolink PoE Cameras not Connecting to NVR](#)

[Can I Use Reolink Cameras with 3rd Party NVR](#)

[Guide on Integrating Third-Party Cameras with Reolink NVRs](#)

Reolink NVRs offer a wide range of hardware versions and features to meet diverse user needs. Whether you require stable PoE/Wi-Fi camera support or the flexibility of battery-powered cameras, Reolink has a solution for you. We recommend verifying hardware versions and firmware updates to ensure optimal compatibility and performance. For detailed specifications and support, consult Reolink's official documentation or contact [Reolink support](#).

Compatibility issue between Reolink Camera and NVR

This article will list common compatibility issues between NVRs and cameras and provide corresponding solutions.

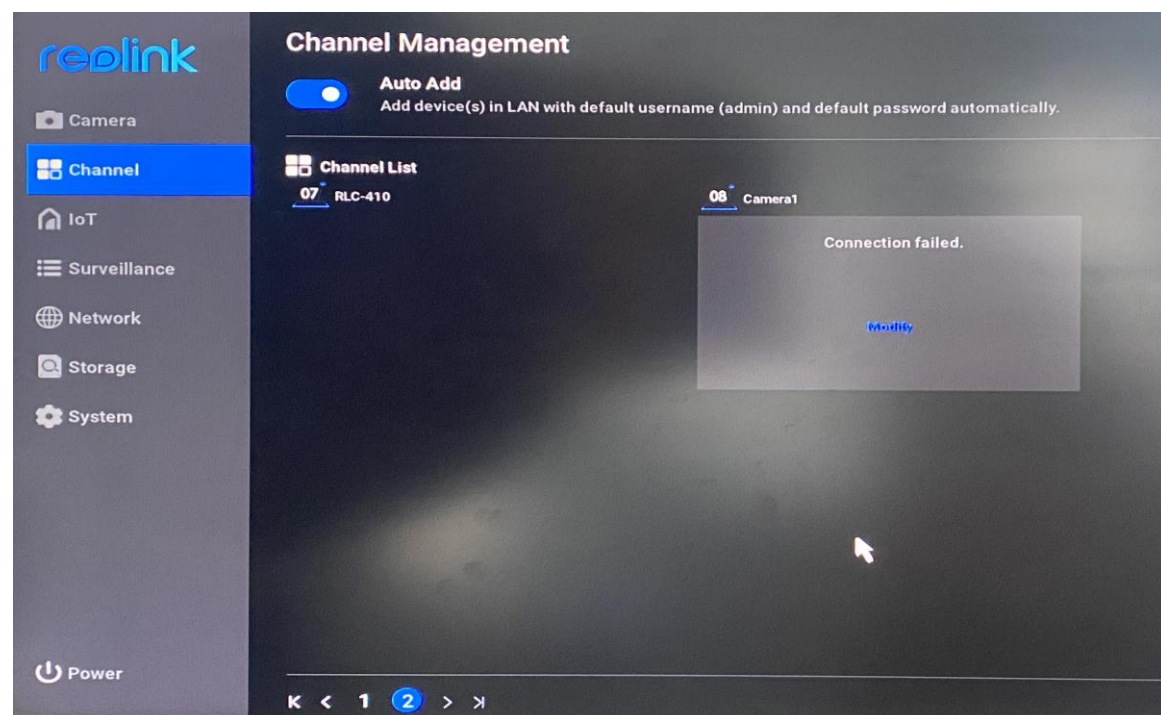
Why Do NVR and Camera Compatibility Issues Occur

With advancements in technology, there are now multiple hardware versions of NVRs, such as H3MB02, H3MB16, N3MB01, N2MB02, H3MB18, N5MB01, N6MB01, and N7MB01. Compatibility issues can arise when older hardware versions of NVRs are used with newly released cameras. For information on how to find your hardware version, please refer to: [How to Find out System Information \(Firmware Version\) via Reolink Software](#)

Symptoms of Compatibility Issues

Compatibility issues typically manifest in the following ways:

1. Black Screen on monitor: For example, Channel 7 may show a black screen.
2. "Connection Failed" Message: For example, Channel 8 may display a "connection failed" error.



3. Display Issues on the monitor: This includes problems such as distorted images, color misalignment, or stripes.



4. Camera cannot be recognized on NVR.

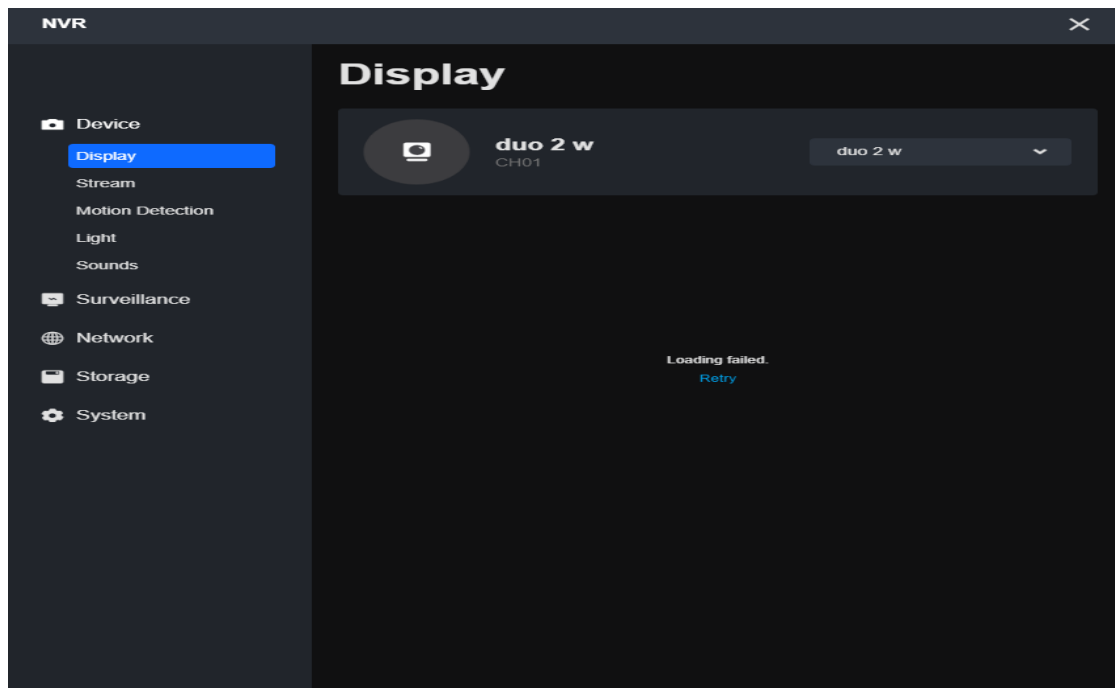
5. Unable to Access Camera Settings on the App/Client: Unable to load configuration settings.

App



Failed to load. Click to try again.

Client



5. Missing Features: For cameras that support spotlight, two-way audio, auto tracking or smart detection, you may find that the corresponding settings are not available on the App, Client, or monitor.
6. Unable to View Full Screen: Only multi-view mode is available, and full-screen preview does not work.
7. Resolution Stuck on D1: The resolution setting shows D1 and cannot be changed.

Fix Compatibility Issues

1. Ensure that your NVR is compatible with the camera: [Introduction to Hardware Versions of Reolink NVRs](#).

For example, if your NVR hardware version is H3MB02 and your camera is an 811A, the compatibility table in the provided link shows that this NVR only supports 4/5MP cameras. Thus, the 811A is not compatible with your NVR. You should use a compatible low-resolution camera.

2. If compatibility is confirmed, update your NVR with the latest firmware: [Reolink Firmware Update Failed](#).

When downloading firmware, select the version that matches your NVR's hardware version.

3. If these steps do not resolve the issue, please provide the NVR hardware version and camera model to the [Support Team](#).

How to Improve the Image Quality of Reolink Cameras

There are some settings you can set to get better image quality for Reolink cameras. Please refer to the instruction below.

Applies to: All Reolink Cameras

Note: If you want to get a clearer image when you operate this camera remotely (LiveView, Playback and upload the recording to Cloud), please ensure that you have a good network environment. If the network where you access this camera is poor, we suggest you switch to the Fluent mode to operate the camera, otherwise you will meet the file lost and stream delay.

There are six functions you can check the image quality of Reolink Cameras.

- **LiveView**
- **Playback**
- **Email attachment**
- **Download the recording**
- **Recordings uploaded to the FTP**
- **Recordings uploading to the Cloud**

1. Change the Encode Settings

If the network is stable, it is recommended to set the bitrate to the highest setting.

Refer to: [Set Up the Record Encode for Reolink Cameras](#)

2. Change the Installation Environment (Applies to all above functions)

- Avoid IR reflection
- Avoid the strong light
- Avoid solid color
- Make sure the subject is within the illumination range

3. Change the Functional settings

- For **LiveView/Playback/Download recordings**, change the stream mode to Clear/High. Refer to: [How to Change Stream Mode in Live Viewing](#)
- For **FTP uploading**, change the **File Type**. Refer to: [How to Set up FTP via Reolink Client \(New Client\)](#)
- For the **Email attachment**, it only supports the Fluent mode transformation. Therefore, you can't find the option for image quality adjustment.
- For **Cloud uploading**, change the **Video Resolution**. Refer to: [How to Upload Record Videos to Reolink Cloud Server](#)

4. Update Reolink Device and Software to the Latest Version

- Reolink Device Firmware: Updating the firmware of your Reolink device is crucial to ensure optimal performance. [Reolink Firmware Update Guide](#)
- Reolink App/Client: Update the App from your phone's App Store, or download the latest version of the Reolink Client from the Reolink website. [How to Upgrade My Reolink Client and Reolink App](#)

Notes:

1. If you meet a problem when you access this camera remotely, you can access it locally for verification before contacting us.
2. If you meet an image issue when you operate the camera in the third-party software, you can try to operate it in Reolink software in advance before [contacting Reolink Support](#).