

NVR-B3602.41.17.250108 Release Notes

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NVR-B3602.41.17.250108 Release Notes

Keywords: Version information, usage notes, precautions.

Abstract: This document provides information about the **NVR-B3602.41.17.250108** board software, including version information, usage notes, precautions, and features.

Acronym

Acronym	Full Name
NVR	Network Video Recorder

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1 Version Information

1.1 Version Number

NVR-B3602.41.17.250108

1.2 Applied Product Models

Table 1 Applied Product Models

Product Models	Description
NVR304-32B-P16-IQ	4 slots, 32-ch, 16 PoE H.264 and H.265, 4K ultra HD.
NVR304-16B-P16-IQ	4 slots, 16-ch, 16 PoE H.264 and H.265, 4K ultra HD.
NVR304-32B-IQ	4 slots, 32-ch, H.264 and H.265, 4K ultra HD.
NVR304-16B-IQ	4 slots, 16-ch, H.264 and H.265, 4K ultra HD.
NVR302-16B-P16-IQ	2 slots, 16-ch, 16 PoE H.264 and H.265, 4K ultra HD.
NVR302-08B-P8-IQ	2 slots, 8-ch, 8 PoE H.264 and H.265, 4K ultra HD.
NVR302-32B-IQ	2 slots, 32-ch, H.264 and H.265, 4K ultra HD.
NVR302-16B-IQ	2 slots, 16-ch, H.264 and H.265, 4K ultra HD.
NVR302-09B-IQ	2 slots, 9-ch, H.264 and H.265, 4K ultra HD.
NVR301-16B-LP8-IQ	1 slots, 16-ch, 8 PoE H.264 and H.265, 4K ultra HD.
NVR301-08B-LP8-IQ	1 slots, 8-ch, 8 PoE H.264 and H.265, 4K ultra HD.
NVR301-08B-P8-IQ	1 slots, 8-ch, 8 PoE H.264 and H.265, 4K ultra HD.
NVR301-04B-LP4-IQ	1 slots, 4-ch, 4 PoE H.264 and H.265, 4K ultra HD.
NVR301-04B-P4-IQ	1 slots, 4-ch, 4 PoE H.264 and H.265, 4K ultra HD.
NVR301-16B-IQ	1 slots, 16-ch, H.264 and H.265, 4K ultra HD.
NVR301-08B-IQ	1 slots, 8-ch, H.264 and H.265, 4K ultra HD.
NVR301-04B-IQ	1 slots, 4-ch, H.264 and H.265, 4K ultra HD.

1.3 Release History

Table 2 Released Versions

Version No.	Basic Version No.	Released On
NVR-B3602.41.17.250108	NVR-B3602.41.16.241226	2025-01-08
NVR-B3602.41.16.241226	NVR-B3602.41.11.241129	2024-12-26
NVR-B3602.41.11.241129	NVR-B3602.39.84.241114	2024-11-29
NVR-B3602.39.84.241114	NVR-B3602.39.83.241011	2024-11-14

NVR-B3602.39.83.241011	NVR-B3602.39.76.240914	2024-10-16
NVR-B3602.39.76.240914	NVR-B3602.39.75.240909	2024-09-14
NVR-B3602.39.75.240909	NVR-B3602.1.16.240627	2024-09-09
NVR-B3602.1.16.240627	Initial release	2024-06-27

2 Usage Notes

None.

3 Software Features

Table 3 Software Features

Service	Feature
Audio and video decoding	H.264/H.265 video compression, 4K ultra HD, up to 16Mbps bit rate.
Data storage	Local storage of recordings in hard disk(s).
Web-based management	Web-based user interface for device configuration and management.

4 Version Change Description

4.1 Feature Change Description

Table 4 NVR-B3602.41.11.241129 Feature Changes

Item	Features	Description
Newly added features	Supports AcuTrack	<p>The NVR allows to select the target on the playback page for AcuTrack when connected to a camera that supports motor vehicle, non-motor vehicle, and pedestrian detection.</p> <p>Drag to select the target, and click AcuTrack to search for recordings of the motor vehicle, non-motor vehicle, or human body during a specified period of a day (the NVR searches for recordings of all cameras of the current day by default. You can set the search time period as needed). The search results are displayed on the timeline, you can click an image to play the video.</p> <p>The analyzer mode should be set to AcuSearch/AcuTrack before use.</p>
	The live view page supports two-way audio and broadcast via the IP speaker.	<p>The NVR's web and local interfaces support two-way audio and broadcast via the IP speaker. When there is online IP speaker, the button  on the bottom toolbar is available. Hover over the button, click , and choose an IP speaker to enable two-way audio; or click , and choose an IP speaker to enable broadcast.</p>
	Supports switching the cloud protocol	<p>Cloud Protocol is added on the hidden interface. User can switch the could protocol as needed (auto mode is enabled by default).</p>

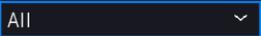
Item	Features	Description
		<p>Auto: The NVR uses a persistent connection by default, and automatically switches to a short-lived connection if the persistent connection failed.</p> <p>Short-lived Connection: This connection mode is forcibly enabled.</p> <p>Persistent Connection: This connection mode is forcibly enabled.</p>
		Two-way audio and broadcast (Support APP Use via IPSpeaker connected to NVR)
		A new alarm-triggered action HTTP is added on the NVR's web interface. You can configure the HTTP path in URL format.
Optimized features	Disabled P2P by default	
	Changes the channel status icon on the local interface	<p>Online channel shows ;</p> <p>Offline channel shows .</p>
	Optimized prompt of no recording	If the selected channel has no recording, the message will appear: No recording. Please make sure that the network, channel, and array statuses are normal; the time, recording schedule, and alarm linkage channel settings are correct; and the storage will overwrite when the HDD is full.
Deleted feature		

Table 5 NVR-B3602.39.83.241011 Feature Changes

Item	Feature	Description
Newly added features	Supports IP speaker access	<p>NVR allows to search, add, delete, and edit the IP speakers. NVR can configure audio files for the online IP speaker, including audio file import, IP speaker output volume adjustment, and audio test.</p> <p>On the IP Speaker page, NVR supports two-way audio and audio broadcast with IP speakers.</p> <p>After you select an alarm for a channel, you can config the trigger action [Alarm Sound] with online IP speaker alarm sound (except the abnormal alarm). When the alarm occurs, it will be triggered to play the specified audio.</p> <p>IP Speaker family (IPS301015-S/ IPS302015-S/ IPS302030-S) supports complete configuration on NVR.</p>
Optimized features		
Deleted features		

Table 6 NVR-B3602.39.75.240909 Feature Changes

	Feature	Description
Newly added features	Supports AcuSearch	<p>When the connected IPC is capable of detecting and sending motor vehicle, and human body objects with original image, coordinates, and target type ,or with thumbnail and target type, the NVR can drag to select the target to search the accurate recordings on the live or playback pages, and search the matched targets.</p> <p>When the analyzer mode is AcuSearch, the button  is available on the toolbar of the live view and playback pages. Click  to enter the AcuSearch page, drag to select the human body/ vehicle on the image, and all matched targets of all cameras on the selected day will be searched by default.</p> <p>You can reset the search conditions (start/end time, camera, and similarity) to search the desired target recordings, and export the search results as needed.</p> <p>In the smart playback mode,after find the video containing the target , you can use AcuSearch to quickly retrieve the matched targets of all cameras, and determine the target trajectory and destination .</p> <p>Remark: This function requires the IPC support..</p> <p>NVR cannot search targets without original images or coordinates via Acusearch</p>
	Optimized non-plug-in function	NVR allows to play live videos on multiple windows (up to 16 windows), play back and download recordings, and play recordings of smart search results even if the plug-in is not installed.
	Supports storing images to EZCloud via Websocket persistent connection	NVR supports connecting the upper platform (EZCloud) via Websocket persistent connection for signaling interaction and normal services. NVR supports reporting image and data from motion detection, human body detection, UMD, face recognition, SIP, behavior analysis, thermal imaging SIP & temperature detection, and object detection to the cloud, and the upper platform can receive the related alarms and snapshots.
	Supports SmartSearch+	<p>The smart playback supports searching recordings by motor vehicle, non-motor vehicle, and human body.</p> <p>In the smart playback mode, select , , or , and click  to reduce the search area. You can also click  to set to skip normal recordings and set the playback speed so as to quickly find the video containing the target.</p>
	Supports streaming media forwarding	<p>NVR supports streaming media forwarding via TCP.</p> <p>The UNV-Link app supports live view and playback via TCP forwarding and allows to start streaming via NAT traversal or UDP forwarding. As UDP transmission is unreliable, the streaming may fail to start and abnormal signaling interaction may occur in some public network environments. Therefore, the TCP forwarding function is added to deal with this problem.</p> <p>It requires the UNV-Link app support. The streaming is started via the P2P technology by default. If P2P streaming fails to start, the streaming media will be forwarded via TCP.</p>
	Supports connecting the general face capture cameras	<p>NVR allows to connect the smart face capture cameras.</p> <p>When the camera connects to the NVR and goes online, the live view, storage, and smart functions can be used normally. For the general face</p>

	Feature	Description
		capture cameras, on the Advanced page of the Face Detection configuration page, the face selection mode is Quality Priority by default, and the number of selected photo is 1 and cannot be configured.
	Supports IPC list import and export	<p>The Camera page on the NVR's local and Web interfaces allows to import and export the IPC list.</p> <p>NVR supports exporting the added channel information to a CSV file, including channel number, channel name, addition method, channel address, port, remote channel number, protocol, server address, channel code, transmission protocol, PTZ, username, password, and long-distance transmission (available for PoE NVR), which can reduce the workload of installation personnel to collate and copy the IPC information.</p> <p>NVR also supports importing the table with the edited IPC information, which can reduce the workload of installation personnel to manually add and edit the IPC information.</p>
	Alarm service supports domain name configuration	NVR allows to configure IP address or domain name for the server address on the Alarm Service page and supports domain name resolution. Then, the NVR can connect to the server via the resolved domain name, and there is no need to configure the server IP if the server IP changes.
	Supports smart data backup on the Web interface	NVR allows to export smart search results on the Web interface, including records, images, and videos.
Optimized features	<p>Optimized security policy</p> <p>Improved playback page on the Web and local interfaces</p>	<p>The login password of SSH is the same as the password of admin user, which is the default system login password.</p> <ol style="list-style-type: none"> Buttons   are added on the playback toolbar of Web and local interfaces, which can switch the normal playback and smart playback quickly. The normal playback is enabled by default. A drop-down list  is added on the playback toolbar of Web and local interfaces. In the normal playback mode, when the recording of the single camera is played, you can click the All drop-down list to choose an event type and search the corresponding recordings. Click  to enter the corridor mode on the local interface. A button  is added on the playback toolbar of Web and local interfaces. <ol style="list-style-type: none"> The recording clarity (HD/SD) is moved to . When the recordings of motor vehicle/non-motor vehicle/human body are played, you can click  to set to skip normal recording and set the playback speed as needed. The Display Ratio on the Web interface is moved from the playback toolbar to . The Interval to rewind or forward the recording on the local interface is moved to .

	Feature	Description
		<p>5. A button  is added on the playback toolbar.</p> <p>1). The buttons  and  on the Web interface are moved from the playback toolbar to .</p> <p>2). The button  on the local interface is moved from the playback toolbar to .</p> <p>3). The  button to enable/disable the POS OSD is moved from the playback toolbar to .</p>
	Improved search page on the local interface	<p>The Others sub-menu is added on the Search menu on the local interface, which includes event types that are not so frequently used, for example, tag search.</p> <p>The Search by Image function is moved from the Person menu to the Picture menu.</p>
	Improved smart search page on the Web interface	<p>The Other Search tab is added on the smart search menu, which includes event types that are not so frequently used, for example, tag search.</p>
	The target types of SIP are displayed based on the IPC capacity	<p>When various models of IPCs go online on the NVR, the intrusion detection and cross line detection configuration pages of the NVR display and hide three target types (including motor vehicles, non-motor vehicles, and pedestrians) and the corresponding target size based on the IPC capacity.</p> <p>For general IPCs, the intrusion detection and cross line detection configuration pages show the target type item and allow to configure the target type as needed. The target size configuration item is hidden.</p> <p>For deep learning IPCs, the intrusion detection and cross line detection configuration pages show the target type item and allow to configure the target type and the corresponding target size.</p> <p>For smart IPCs, the intrusion detection and cross line detection configuration pages have no target type or the target size configuration item.</p>
	Supports packet capture based on multiple conditions	<p>Before optimization, the NVR only supports capturing packets of one IP address and one port. After optimization, the NVR can capture packets of the specified ports and IPs, or except the specified ports and IPs. Up to 5 IPs and ports are allowed.</p>
	Supports HDMI audio output when the two-way audio is performed between the NVR and app	<p>Turn on the two-way voice with the NVR on your mobile app, and the HDMI interface has audio output when the NVR connects the monitor via the HDMI interface.</p>
	VCA Config	<p>When switching the VCA Config page and the intelligent function configuration page (such as face detection, cross line detection, etc.), the channel on the enabled intelligent function configuration page is changed as the channel on the VCA Config page. If the channel on the VCA Config page is not supported by the intelligent function, the intelligent function cannot be configured.</p>
Deleted	Deleted the playback	Normal/smart playback and HD/SD are moved to the playback toolbar.

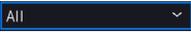
	Feature	Description
feature	event type and HD/SD drop-down lists on the left side of the Web's playback page	See Improved playback page on the Web and local interfaces for details. The frequently used event types are moved to  on the playback toolbar. Other search types (for example, tag search) are moved to Smart > Search > Other Search.
	Deleted the Video Retrieval tab from the left side of the local interface's playback page	The frequently used event types are moved to  on the playback toolbar. Other search types (for example, tag search) are moved to Search > Others > Other Search.
		The clarity cannot be adjusted in the smart playback mode on the local interface

Table 7 NVR-B3602.1.16.240627 Feature Changes

Item	Feature	Description
Newly added features	Supports NVR-side Ultra Motion Detection	Support NVR-side Ultra Motion Detection and the following functions are available when the analyzer's working mode is set to Ultra Motion Detection. On Motion dection page, user can choose Ultra Motion Detection, and the Smart Mode is set to NVR Side Analysis: parameters such as detection area, sensitivity and object type are displayed and can be set, image storage, smart preview, image search and display; uploading images and attribute information to the upper-level platform.
	Supports NVR-side Smart Intrusion Prevention	Support NVR-side Smart Intrusion Prevention and the following functions are available when the analyzer's working mode is set to Smart Intrusion Prevention: enabling/disabling detection, parameter configuration, image storage, smart preview, image search and display; uploading images and attribute information to the upper-level platform.
	Supports NVR-side face recognition	NVR can set the analyzer mode to face recognition, so as to achieve face detection and face comparison for connected common cameras. When the analyzer mode is face recognition, the NVR-side face detection and face comparison are configurable. Face detection supports enabling/disabling function, parameters configuration (detection area, sensitivity, arming schedule, and trigger actions), storing images from IPC, smart preview, smart search, results display, uploading alarms and images to the upper platform. Face comparison supports enabling/disabling function, configuring monitoring tasks, smart preview, real-time comparison results display, face snapshot search, face comparison search, and searching face image by image.
	Allows to connect camera that supports plate license detection via the private protocol	The Plate Detection function bar is added on the VCA Config page, including Plate Detection and Plate Comparison . Plate Comparison is moved from the Vehicle Monitoring menu to the VCA Config page. The plate comparison is only available to the NVR-side analysis, while the plate detection is only available to the camera-side analysis. The camera can still be connected to

Item	Feature	Description
		<p>NVR via the GA/T 1400 protocol.</p> <p>Connect the camera that supports plate license detection to the NVR via the LAPI protocol, and enable Plate Detection after the camera is online. The NVR will receive vehicle snapshots from the camera when an alarm occurs without configuring GA/T 1400 protocol parameters on the IPC and NVR's interfaces, easier for operation.</p> <p>Remarks: This feature is not available for NVRs with 1 HDD slot</p>
	<p>Supports searching playback by motor vehicle, non-motor vehicle, and human body</p>	<p>On the Playback page of the local and Web interfaces, user can search recordings by objects including motor vehicle, non-motor vehicle, and human body, so as to quickly view the desired object recordings, improving the search efficiency. The object recordings are triggered by alarms such as smart intrusion prevention, UMD, human body, etc.</p> <p>Select any object of motor vehicle, non-motor vehicle, and human body, and the corresponding recordings will be shown green on the progress bar. Select Skip normal recording, and the playback page will only play recordings of the corresponding object.</p> <p>This function is only available to the single-channel playback, normal and corridor mode.</p>
	<p>Supports multiple languages for overseas devices</p>	<p>Supports changing other languages on the local interface (System > General > Basic Setup) and Web interface (System > Basic).</p> <p>When changing the system language, a pop-up prompt will be displayed to ask the user to restart the NVR.</p>
	<p>Supports panoramic linkage and calibration with dual-lens network PTZ camera</p>	<p>When the connected camera is capable of panoramic linkage, the following functions are available on the NVR: enabling/disabling linkage, auto calibration, and manual calibration on the image of the dual-lens network PTZ camera.</p> <p>Go to Camera > Panoramic Linkage, and configure the function. Panoramic Linkage is enabled by default. Click Auto Calibration, and start calibration: (1. Adjust the panoramic image to the desired position; 2. Start auto calibration, and the calibration progress will be shown). After completing calibration of 6 points, the coordinates parameters will be shown in the list. Click any coordinate, and the close-up image shows the clicked point at the image center. To change the coordinate, you can adjust the PTZ parameters, and then click  to save the settings.</p> <p>On the VCA Config page of the bullet camera's channel, select a smart intrusion prevention function, and enter the Trigger Actions page. The Panoramic Linkage is added under Camera Linkage. After enabling it, the panoramic linkage will be triggered when a smart intrusion prevention alarm occurs.</p> <p>NVR currently only supports automatic calibration and manually editing the calibration parameters.</p>
	<p>Allows to connect UMD-enabled IPCs that support day/night mode of alarm sound/light</p>	<p>NVR can connect UMD-enabled IPCs that support alarm sound/light and arming schedule. User can choose day/night mode or custom mode on the alarm sound/light configuration page, and configure the arming schedule.</p> <p>This function requires camera support.</p>
	<p>Allows to connect camera-side smart intrusion prevention and</p>	<p>NVR can connect IPCs that support object attributes by camera-side smart intrusion prevention and UMD. The NVR will receive and store images and object attributes</p>

Item	Feature	Description
	<p>UMD-enabled IPC to collect object attributes</p>	<p>(motor vehicle, non-motor vehicle, and human body) from IPC, and the VCA search results will show the detail attributes. On the Human Body Search page, Upper Garment Color and Lower Garment Color are added on the Basic Attributes.,and on the Non-Motor Vehicle Search page, Upper Garment Color is added on the Basic Attributes, which allows user to search images by these new attributes.</p> <p>This function requires camera support.</p>
	<p>Supports adding NAS disk via the domain name</p>	<p>NVR allows to add NAS disks from the public network via the SMB/CIFS protocol and IP address or domain name. The NAS disks can store and back up recordings and snapshots. Supports formatting NAS disks.</p>
<p>Optimized features</p>	<p>Merges NVR disarming and IPC disarming into one-key disarming</p>	<p>NVR Disarming and IPC Disarming tabs are merged to the One-Key Disarming tab. Alarm sound and alarm light are added to IPC disarming actions. The configured disarming mode and actions will be synced to the selected IPCs. When an alarm occurs, the disarming actions will not be triggered during the disarming schedule.</p> <p>Alarm Output is added to the one-key disarming actions. The linked channel configuration of Disarm by Switch is deleted from the Alarm Input tab. The one-key disarming tab can configure alarm output and select corresponding NVR and IPC channels. When an alarm occurs, the alarm devices (eg, alarm light) connected to the corresponding alarm output interfaces will not be on.</p>
	<p>One-key disarming and alarm-triggered actions support Push Alarm</p>	<p>Push Alarm is added on the alarm-triggered actions and enabled by default. The NVR will push alarm to its upper platform and app when an alarm occurs.</p> <p>Push Alarm is added on the one-key disarming actions and disabled by default. When enabled, the NVR will not push alarm to its upper platform and app during the disarming schedule if an alarm occurs.</p>
	<p>Send Email allows to send alarm information and snapshot to the email</p>	<p>The NVR will send an email attached with snapshot(s) to the recipient's email when an alarm occurs.</p> <p>In the previous version, the NVR will send two emails when an alarm occurs, including the first email without snapshot and the second email with snapshot. This is optimized in this version.</p>
	<p>The local interface supports drawing the detection area of VCA functions in full screen</p>	<p>On the VCA function configuration page of the local interface, select a detection rule and click the Draw icon, and then the live view will show the full screen, where you can draw detection area(s), easy and accurate. Right-click can exit the full screen.</p>
	<p>Merges VCA Search and Backup menus</p>	<p>VCA Search and Backup menus are merged into Search, a newly added menu.</p> <p>Recording and Image are moved to from the menu Backup to Search, and changed to Video and Picture separately.</p> <p>For VCA Search of the previous version, Human Body Search, Face Snapshot Search, Face Comparison Search tabs are merged into the Person menu (Menu > Search > Object > Person), the Motor Vehicle Search tab is moved at Menu > Search > Object > Motor Vehicle > Motor Vehicle Search, the Non-Motor Vehicle Search is moved at Menu > Search > Object > Non-Motor Vehicle > Non-Motor Vehicle Search, the General</p>

Item	Feature	Description
		<p>Search tab is changed to Event, and People Counting Report is changed to Statistics.</p>
	<p>Improved layout of VCA functions</p>	<p>On the VCA Config page, VCA functions are re-arranged from top to bottom: Smart Intrusion Prevention, Face Recognition, Object Detection, People Counting, Plate Detection, Temperature Detection, and Exception Detection & Statistics. Functions that are unavailable to the device are hidden.</p>
	<p>Supports linear stripe suppression and smart white light</p>	<p>NVR can connect IPCs that support smart white light. After the IPC is online, Smart White Light can be selected from the Illumination Mode drop-down list. When enabled, the illumination light will reach the highest intensity when an alarm occurs at night, and it will restore to original intensity after the alarm ends, reducing light pollution.</p> <p>NVR can connect IPCs that support linear stripe suppression. After the IPC is online, the Linear Stripe Suppression item can be configured on the Exposure tab. Adjust it to a suitable level for removing stripe when the exposure mode is set to indoor 50Hz or 60Hz.</p> <p>This function requires camera support.</p>
	<p>Supports WDR smart or automatic mode</p>	<p>NVR can connect IPCs that support WDR smart or automatic mode. After the IPC is online, Smart or Automatic can be selected from the WDR drop-down list. When enabled, Linear Stripe Suppression and WDR On/Off Sensitivity are allowed to configure.</p> <p>This function requires camera support.</p>
	<p>Supports face metering</p>	<p>NVR allows to connect IPCs that support face metering. When the IPC is online, Face Metering can be selected from the Metering Control drop-down list, and can be synced to IPC.</p>
	<p>Improved playback page on the local interface</p>	<ol style="list-style-type: none"> On the playback page, playback and video retrieval toolbars on the left side are arranged from up-to-down to left-to-right, convenient for operation. Adjusts the layout of playback toolbar at the bottom of the playback page.
	<p>Improved local interface</p>	<ol style="list-style-type: none"> The camera list page is optimized. Multiple operation buttons are merged, for example, the Default operation is moved from the Advanced tab (Menu > Camera > Camera > Advanced) to the Camera tab. Encoding and Audio tabs are moved to the Audio & Video menu. OSD, Content, Image, and Privacy Mask tabs are moved to the Configuration menu. The Snapshot Type tab is moved from the Camera menu to the Snapshot Schedule menu, as a same-level tab with Configure Snapshot Schedule. Basic, Time, Time Sync, DST, and Holiday tabs are moved to the General menu (Menu > System > General). Serial, and Unit tabs are moved to the Advanced menu (Menu > System > Advanced). Restore, Auto-Function, and System Backup tabs are moved to the Maintenance menu (Menu > Maintenance > Maintenance). Privacy Policy and Open Source Notices tabs are moved to the Basic Info tab.

Item	Feature	Description
	Adds a Close button on the login page of the local interface.	A Close button is added on the Login page of the local interface.
	Optimized policy of NVR password syncing to IPC	On the Change Password page, Sync to Camera is disabled by default. If you change the NVR password and then enable Sync to Camera , a dialog box will be displayed for prompt.
	Supports configuring force recognizing HDMI output	A configuration item Force Recognizing HDMI Output is added on the Web's hidden interface. It is disabled by default. When enabled, a prompt appears to ask the user to re-start the NVR. After startup, the video will be forced to output on the local interface via the HDMI port.
	Optimized time sync mode	On the Time page of local and Web interfaces, the Time Sync Mode item is added, including Disable Sync , Sync with NTP Server , and Sync with Cloud Server . It is Disable Sync by default.
	Optimized prompt of no hard disk	After the NVR starts up, the system will automatically detect available hard disks. A dialog box will appear if no disk is detected within 30s, and the detection will continue for 2 minutes. If a hard disk is detected during the 2 minutes, the dialog box will disappear; otherwise, user needs to close it manually. Select Don't remind me again , and then the dialog box will not appear after next startup. If the NVR restores to default settings, the dialog box will appear when no disk is detected.
	Disabled UPnP by default	UPnP is disabled by default when the system is in factory configuration mode.
	Changed the alarm names of Smoke and Fire Detection and Temperature Detection	The alarm names of Smoke and Fire Detection and Temperature Detection are changed to Fume Alarm and Abnormal Temperature Alarm respectively.
	Changes Uniview protocol name to Private	When IPCs are added to NVR via our company's protocol, the protocol name is changed from Uniview to Private .
	Disabled Force Sending I Frame by default.	The Force Sending I Frame item on the Web's hidden interface is disabled by default.
	Improved default user on the local interface	For the default user, the user type is changed from Reserved User to Local Preview User , and the user description is added, "Note: By default, the default user can only view live video on the local interface without logging in".
	Improved expression	Upstream Management is changed to Streaming Management . Valid Period is changed to Validity Period ; Set Valid Period is changed to Set Validity Period . Delete on the EZCloud tab of the Web's interface is changed to Logout .
	Supports uploading LPR information to VMS via the private protocol	NVR can connect to VMS via the LAPI protocol, and upload LPR alarms and snapshots. Remarks: This feature is not available for NVRs with 1 HDD slot
Deleted	Deleted the Backup menu, and the VCA	The Backup and VCA Search menus are merged to the Search menu. See "Merges VCA Search and Backup

Item	Feature	Description
features	Search menu on the VCA page	menus” for details.
	Deleted NVR Disarming and IPC Disarming tabs	See “Merges NVR disarming and IPC disarming into one-key disarming” for details.
	Deleted disarming channel configuration of Disarm by Switch	The linked channel configuration of Disarm by Switch is moved from Alarm Input to One-Key Disarming. See “Merges NVR disarming and IPC disarming into one-key disarming” for details.
	Deleted the Vehicle Monitoring menu and the Vehicle Alarm Monitoring tab	The Vehicle Monitoring menu is changed to Plate List , and the Vehicle Alarm Monitoring tab is changed to Plate Comparison and moved to the VCA Config page.
	Deleted auto update item of the Time tab.	The auto update item is changed to Sync NTP Server under the Time Sync Mode item. See “Optimized time sync mode” for details.

4.2 Operation Change Description

None

4.3 Solved Issues

None

5 Related Documents and Delivery Method

Table 8 Related Document List

Manual Name	Manual Version	Delivery
Network Video Recorders Quick Guide	V1.00	Deliver with device.

6 Version Upgrade Guidance

6.1 Precautions

- This software system includes a software program mirror (Program.bin). Before you start upgrade, please back up configuration data through the system or Web interface in case the upgrade fails.
- Maintain proper network connection and power supply during the upgrade.

6.2 Upgrade Procedure

The version can be upgraded through the system interface and the Web interface, both support cloud upgrade.

6.3 Upgrade Through the System Interface

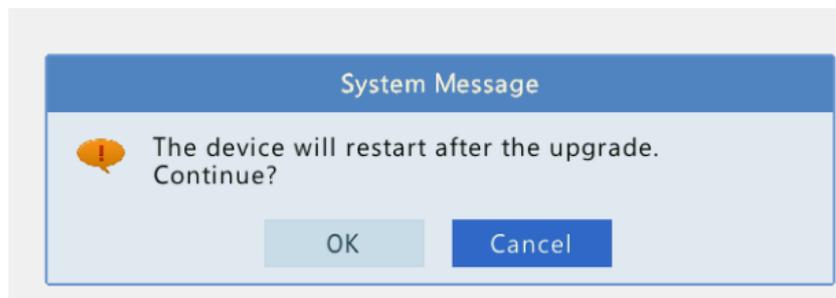
The system interface provides two options for upgrading the system software: local upgrade using a USB drive and cloud upgrade.

1. Local upgrade

Before you start, copy the correct upgrade file to the root directory of the USB drive.

- (1) Plug the USB drive into the USB interface on the NVR.
- (2) Log in to the system interface as “admin”.
- (3) Click **Maintain > Upgrade**.
- (4) Click **Upgrade**, select the upgrade file from the drop-down list, and then click **Upgrade**. A prompt message appears.
- (5) Click **OK**.

Figure 1 Prompt Message



- (6) The NVR will restart automatically when the upgrade is completed.

2. Cloud upgrade

Before you start, check that the NVR is correctly connected to the public network.

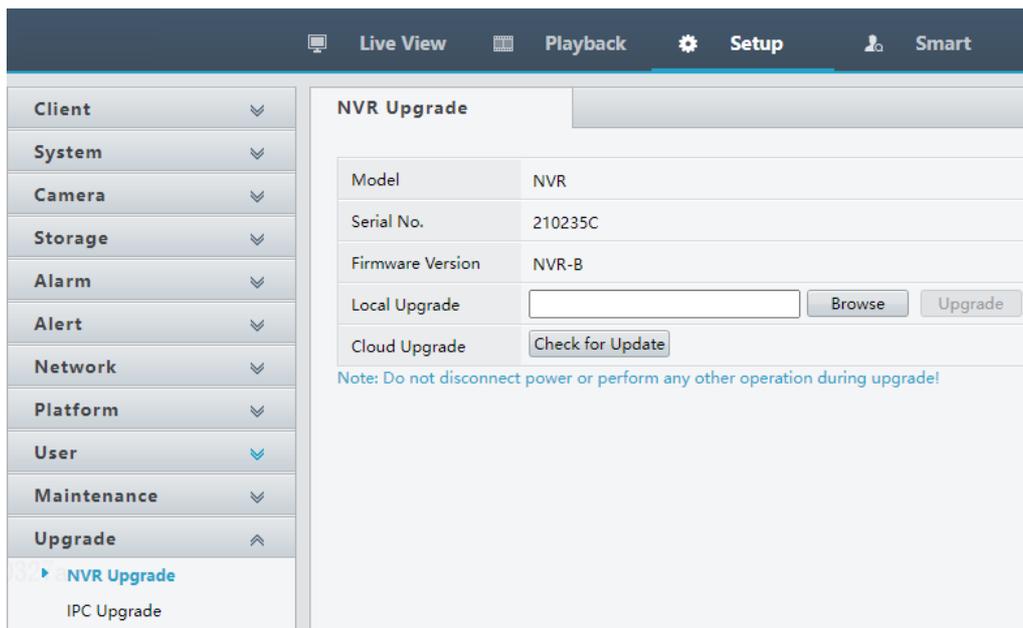
- (1) Click **Maintain > Upgrade**, and then click **Check** to check for the latest version.
- (2) Click **Upgrade** after a newer version is detected.

6.4 Upgrade Through the Web Interface

Perform the following steps to upgrade through the Web interface:

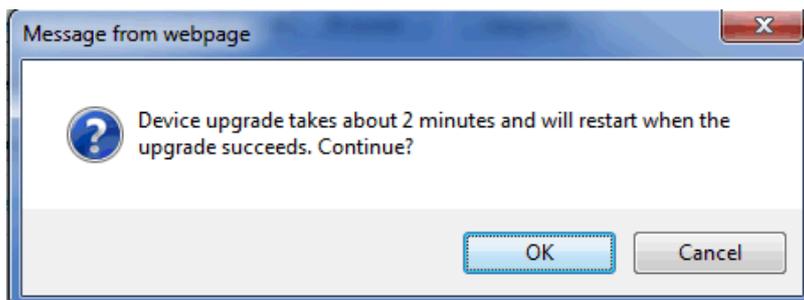
- (1) Log in to the Web interface as “admin”.
- (2) Click Upgrade > NVR Upgrade.

Figure 2 NVR Update



- (3) Click **Browse** right to the **Upgrade** field, select the **Program.bin** file to upgrade, and then click **Upgrade**.
- (4) If the NVR is connected to the public network, you may also click **Check** to perform a cloud upgrade. If a newer version is detected, a prompt message will appear. Click **OK** to start upgrade.

Figure 1 Prompt Message



- (5) The NVR will restart automatically when the upgrade is completed.

Version Upgrade Disclaimer

1. By setting or installing this program in any way you agree to all of the following terms and conditions. Your downloading or using the program means you acknowledge your full understanding and acceptance of the following terms and conditions. If you do not agree to any of the following terms, you shall not use the program and you must cease installing and delete the program immediately.
2. The upgrade program is only applicable to the intended regions and product models. Before upgrade or update, please read the release notes carefully to make sure the program is applicable to your region and product model. You will be fully liable and responsible for all the consequences of device abnormality and related maintenance costs caused by your improper operations.
3. Uniview owns or is legally authorized to own all rights and IPRs (Intellectual Property Rights) of the program and the supplied release notes.
4. Software upgrades are for the optimization of product functions and do not mean there is defect.
5. You must strictly follow instructions in the release notes during the upgrade process, otherwise you are responsible for the possible consequences and related maintenance costs.
6. You shall not engage in any of the following activities, otherwise you would be liable for infringement and responsible for any adverse consequences arising therefrom.
 - 6.1 Copy the program (exclude the reasonable and necessary copies for internal backups);
 - 6.2 Exclude this statement when using the program or transfer the program to any third party;
 - 6.3 Modify the program or its derivatives;
 - 6.4 Reverse engineer, decompile or disassemble this program.
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