NVR-B3111.28.27.200330 Release Notes

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Keywords: Version information, usage notes, precautions.

Abstract: This document provides information about the **NVR-B3111.28.27.200330** board software, including version information, usage notes, precautions, and features.

Acronym

Acronym	Full Name
NVR	Network Video Recorder

Contents

1 Version Information

1.1 Version Number

NVR-B3111.28.27.200330

1.2 Applied Product Models

Table 1 Applied Product Models

Product Models	Description
NVR304-16E-B	4 slots, 16-ch, H.264 and H.265, 4K ultra HD.
NVR304-32E-B	4 slots, 32-ch, H.264 and H.265, 4K ultra HD.
NVR304-16EP-B	4 slots, 16-ch, 16 PoE interfaces, H.264, H.265, 4K ultra HD.
NVR304-32EP-B	4 slots, 32-ch, 16 PoE interfaces, H.264, H.265, 4K ultra HD.
NVR308-16E-B	8 slots, 16-ch, H.264 and H.265, 4K ultra HD, RAID
NVR308-32E-B	8 slots, 32-ch, H.264 and H.265, 4K ultra HD, RAID
NVR308-64E-B	8 slots, 32-ch, H.264 and H.265, 4K ultra HD, RAID
NVR308-32R-B	8 slots, 32-ch, H.264 and H.265, 4K ultra HD, RAID, hot-pluggable disk drives
NVR308-64R-B	8 slots, 32-ch, H.264 and H.265, 4K ultra HD, RAID, hot-pluggable disk drives
NVR316-32R-B	16 slots, 32-ch, H.264 and H.265, 4K ultra HD, RAID, hot-pluggable disk drives
NVR316-64R-B	16 slots, 32-ch, H.264 and H.265, 4K ultra HD, RAID, hot-pluggable disk drives

1.3 Release History

Table 2 Released Versions

Version No.	Basic Version No.	Released On
NVR-B3111.28.27.200330	NVR-B3111.28.26.200319	2020-03-30
NVR-B3111.28.26.200319	NVR-B3111.28.20.200113	2020-03-19
NVR-B3111.28.20.200113	NVR-B3111.28.15.191223	2020-01-13
NVR-B3111.28.15.191223	NVR-B3111.27.51.191128	2019-12-23
NVR-B3111.27.51.191128	NVR-B3111.27.50.191108	2019-11-28
NVR-B3111.27.50.191108	NVR-B3111.27.45.191015	2019-11-08
NVR-B3111.27.45.191015	NVR-B3111.27.40.190905	2019-10-15
NVR-B3111.27.40.190905	NVR-B3111.27.36.190817	2019-09-05
NVR-B3111.27.36.190817	NVR-B3111.27.35.190801	2019-08-17
NVR-B3111.27.35.190801	NVR-B3111.27.30.190712	2019-08-01

NVR-B3111.27.30.190712	NVR-B3111.27.25.190621	2019-07-12
NVR-B3111.27.25.190621	NVR-B3111.27.20.190523	2019-06-21
NVR-B3111.27.20.190523	B3126P35	2019-05-23
B3126P35	B3126P30	2019-04-29
B3126P30	B3126P25	2019-04-02
B3126P25	B3126P23	2019-02-25
B3126P23	B3126P11	2018-12-26
B3126P11	B3125P30	2018-10-22
B3125P30	B3125P27	2018-09-03
B3125P27	B3125P26	2018-07-26
B3125P26	B3125P21	2018-07-21
B3125P22	B3125P21	2018-07-26
B3125P21	B3125P10	2018-07-07
B3125P10	B3123P23	2018-05-21
B3123P30	B3123P23	2018-05-31
B3123P23	B3123P21	2018-04-21
B3123P21	B3123P20	2018-04-04
B3123P20	B3123P10	2018-03-14
B3123P10	B3122P31	2018-01-29
B3122P31	B3122P25	2017-11-29
B3122P25	B3122P16	2017-10-24
B3122P16	B3122P10	2017-09-26
B3122P10	B3121P21	2017-08-21
B3121P35	B3121P21	2017-10-25
B3121P21	B3121P20	2017-07-20
B3121P20	B3121P07	2017-06-14
B3121P07	Initial release	2017-04-14

2 Usage Notes

None.

3 Software Features

Table 3 Software Features

Service	Feature
Audio and video decoding	H.264 and H.265, 4K resolution display, up to 16Mbps bit rate.

Service	Feature
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-B3111.28.26.200319 Feature Changes

Item	Feature	Description
Newly added features	Mask detection	Support alarm and configuration of mask detection cameras.
Improved features	None	None.
Deleted features	None	None.

Table 5 NVR-B3111.28.15.191223 Feature Changes

Item	Feature	Description
Newly added features	Stream scramble	1.Support decoding the scrambled streams of Uniview camera; 2. Support enabling/disabling Stream Scramble for cameras connected via Uniview private protocol.
	Separate camera name and it's OSD	Support syncing camera name (up to 40 characters) to its OSD name. The sync function is enabled by default.
	Improved error message in preview page	More detailed messages such as incorrect password and network error are displayed in preview page, so that user experience improved.
	Support disabling third stream audio	Support disabling third stream audio and copying audio settings to multiple channels.
	Connect video doorbell	Support video doorbell, which, when connected to the app via an NVR, doorbell calling alarm can be received both on the NVR and the app.
Improved features	Improved playback	Support setting skip interval for forwarding and rewinding playback.
	Improved storage settings	Support encoding settings of third stream, and more Storage Mode options, so that solve the problem that camera with no third stream cannot play back in SD mode.
	Save password	Support saving password.
Deleted features	None	None.

Table 6 NVR-B3111.27.20.190523 Feature Changes

Item	Feature	Description
Newly added features	H.265	Auto switch to H.265 when first connected is enabled by default.
	UNP client software upgrade	Upgrade UNP client software to SoftEther VPN.

Item	Feature	Description
	Live view without plug-in	Live view is available without plug-in on the Web interface.
	LPR	Add license plate recognition display page.
	New local interface	New local GUI; New interaction design in wizard, channel configuration, playback and VCA.
Improved features	Retrieve password	Retrieve password by email and mobile client.
	Preset patrol	Up to 32 presets are allowed for one preset patrol.
	Playback in main stream	Playback in standard definition automatically switches to main stream for a maximized window.
	Separate permissions	Separate channel live view and audio permissions.
	Alarm configuration	Add human body detection.
	Improve switching performance when maximizing/restoring window	For connected Topsee cameras, live video starts quickly when maximizing or restoring window.
	Face recognition	Support adding face snapshots to face library.
Deleted features	None	None.

Table 7 B3126P23 Feature Changes

Item	Feature	Description
Newly added features	None	None
Improved features	None	None
Deleted features	3G/4G	Support 3G/4G SIM card.

Table 8 B3126P11 Feature Changes

Item	Feature	Description
	LPR	Whitelist/blacklist vehicle plate recognition.
	Heat map	Support heatmap statistics and export.
	GA/T1400	Upload face & plate snapshots to VMS.
	Add device without account	Scan to add NVR on app without cloud account.
Newly added features	Onvif	Support Profile S.
	Pattern unlock	Support drawing pattern to unlock.
	Alarm push notification	Push alarm notification traversing NAT.
	Web maintenance	Add net detection & network flow.
	Auto add IPC	Automatic search and add IPC for 1-SATA NVR with zero configuration.
	GDPR	Add GDPR privacy statement.

Item	Feature	Description
Improved features	Improved PTZ presets	Configurable PTZ preset name.
	Improved live view startup speed	IPC live view starts up quickly.
Deleted features	None	None.

Table 9 B3125P10 Feature Changes

Item	Feature	Description
New features	Video&Image DB (Phase 1)	Vehicle license plate recognition and search.
	Alarm report	Alarm report in non-subscribe mode, with configuration added on local interface.
	Multicast	Add uplink RTSP multicast function
Improved features	POS	Supports AVE protocol. Changed the Start Before setting to 5sec on POS playback page and added a refresh button.
	U-Code	U-Code configuration for sub and third streams.
	VCA alarm	Added object left behind and removal alarms
	APP collaboration	Improves image display speed on APP.
	Playback	Supports 32x playback on VMS-B200
	CDN (RTMP)	Added channel-based CDN configuration
	Prompt to change password	Added a message prompting user to change temporary password
	Device connection	Supports adding channels in batch via RTSP
Deleted features	None	None

Table 10 B3123P10 Feature Changes

Item	Feature	Description
New features	Add IPC across Internet	Add IPCs to the NVR across the Internet.
	SNMP	System time obtainable.
	POS connection	Connect to POS and display POS OSD.
Improved features	Improved diagnostic info collection	Support the backup of IPC logs on NVR.
	Alert configuration	Added two alert types: array degrade and array damaged.
	Alarm window	Displays alarm status with two tabs and added multiple alarm types.
	Web recording download	Include recording start and end times in filenames for easier differentiation.
	Maintenance info collection	Added network bandwidth statistics on the Web.
Deleted features	None	None

Table 11 B3122P25 Feature Changes

Item	Feature	Description
New features	None	None
Improved features	None	None
Deleted features	Face recognition (phase I)	Used with USB intelligent analysis device to provide blacklist and whitelist functions. Only 4 Series –B model supports this function.

Table 12 B3122P10 Feature Changes

Item	Feature	Description
New features	Face recognition (phase I)	Used with USB intelligent analysis device to provide blacklist and whitelist functions. Only 4 Series –B model supports this function.
	USB connected burner	Connect to an external USB burner to burn recordings to a disc. Supported by some models only.
	Fisheye (phase III)	Add dewarping function for 5 Series and marking function for 3 Series.
	Connection to new 4K fisheye camera models	Connectable with certain new models of 4K fisheye cameras and supports back-end dewarping.
Improved features	TLS/SSL	Achieves complete SSL/TLS encryption.
	Maintenance info storage	Save space by saving maintenance logs to hard disks.
	IPC upgrade by cloud	Adds a Check button (to check for update) and displays latest version info.
	3G/4G	Adds custom mode for access points.
	Playback	Allows user to choose third steam for playback.
	Alarm triggered preview	Supports multi-window display for alarm-triggered preview.
	N+1 function	Supports IPC connected by RTSP.
	Parameter configuration	Increases image quality levels from 6 to 9.
	Password policy	Added an enable/disable setting and changed some policy.
Deleted features	None	None

4.2 Operation Change Description

None

5 Related Documents and Delivery Method

Table 13 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.
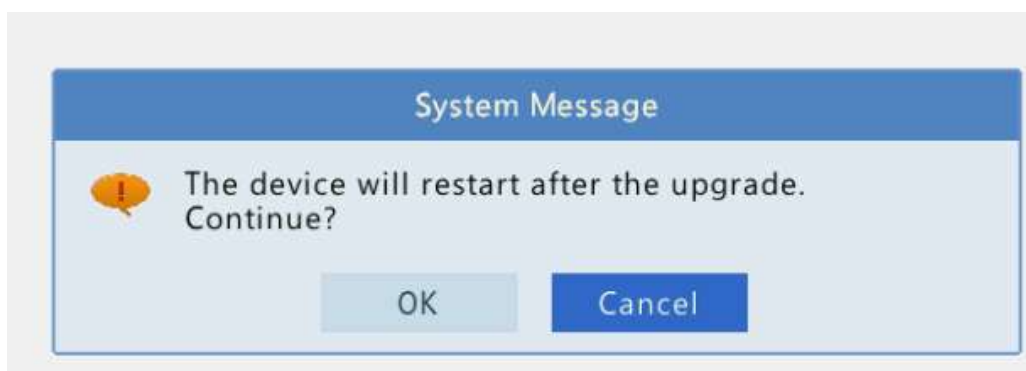
6.3 Upgrade Through the System Interface

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.
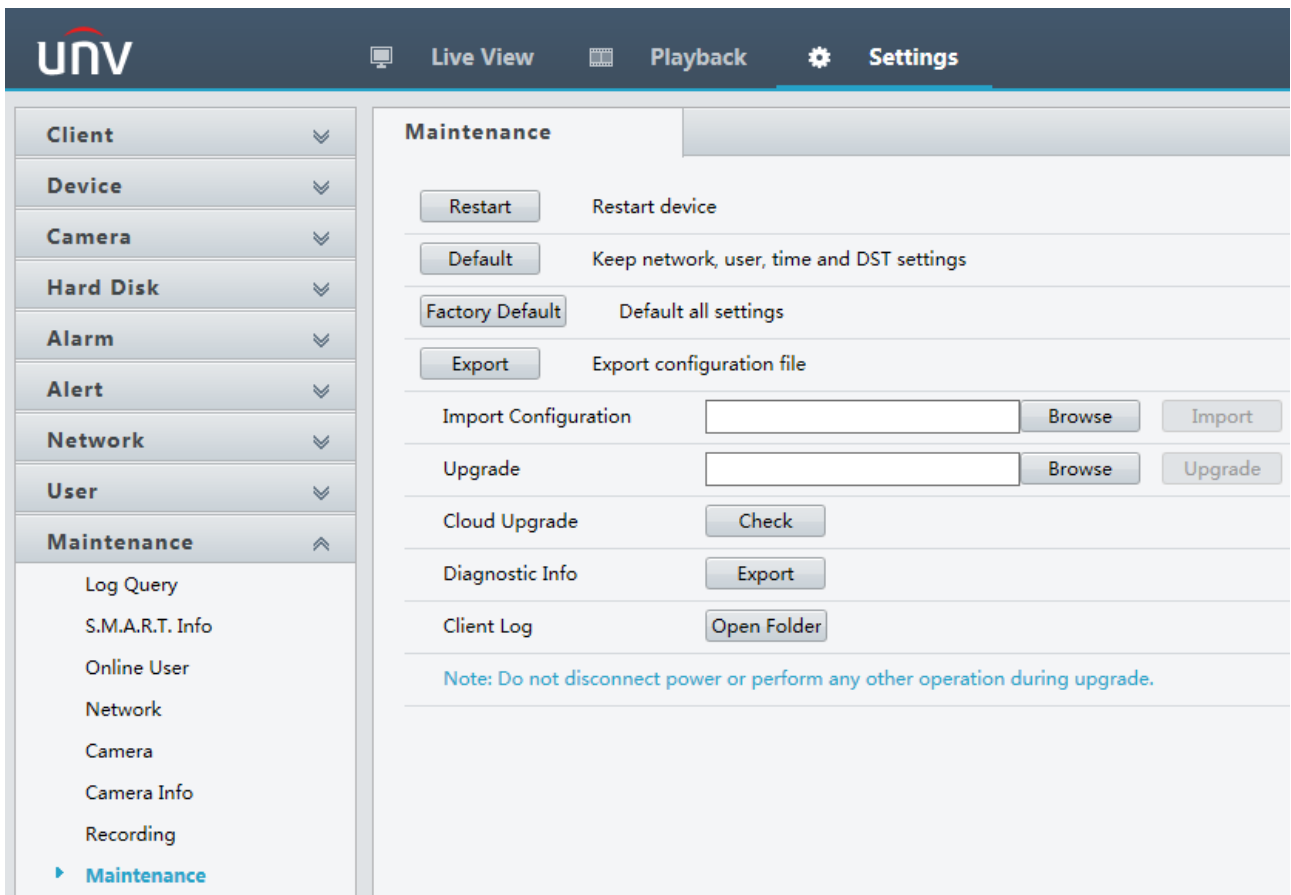
(2)   Click **Upgrade** after a newer version is detected.

6.4 Upgrade Through the Web Interface

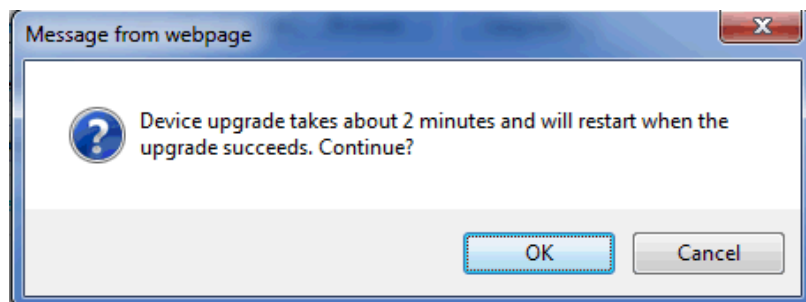Perform the following steps to upgrade through the Web interface:

(1)   Log in to the Web interface as "admin".

(2)   Click **Settings** > **Maintenance** > **Maintenance**.

Figure 2 System Maintenance

(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 3 Prompt Message

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