B3117P25 Release Notes

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Keywords: Version information, usage notes, precautions.

Abstract: This document provides information about the **B3117P25** 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

B3117P25

1.2 Applied Product Models

Table 1 Applied Product Models

Product Models	Description
NVR308-16E	8 slots, 16-ch, H.264 decompression, 4K ultra HD, RAID
NVR308-32E	8 slots, 32-ch, H.264 decompression, 4K ultra HD, RAID
NVR308-64E	8 slots, 32-ch, H.264 decompression, 4K ultra HD, RAID
NVR304-16E	4 slots, 16-ch, H.264 decompression, 4K ultra HD
NVR304-32E	4 slots, 32-ch, H.264 decompression, 4K ultra HD
NVR308-32R	8 slots, 32-ch, H.264 decompression, 4K ultra HD, RAID, hot-pluggable disk drives
NVR308-64R	8 slots, 32-ch, H.264 decompression, 4K ultra HD, RAID, hot-pluggable disk drives

1.3 Release History

Table 2 Released Versions

Version No.	Basic Version No.	Released On
B3117P25	B3116P23	2016-05-25
B3116P23	B3116P20	2016-02-02
B3116P20	B3115P35	2016-01-18
B3115P35	B3115P30	2015-11-05
B3115P30	Initial release	2015-10-14

2 Usage Notes

None.

3 Software Features

Table 3 Software Features

Service	Feature
Audio and video decoding	H.264 video compression, 4K ultra HD, 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 B3117P25 Feature Changes

Item	Feature	Description
Newly added features	Independent video output	Independent play and playback of different live videos; dual-preview images.
	Cache post recording	Videos are saved to the SD card if connection to the IP camera is lost. When the camera gets back online, videos saved on the SD card will be transmitted and stored on the NVR. No configuration is required.
	Disk group management	Allows the user to designate disks to different groups and specify different disk groups to store video from different cameras, making storage space calculation for each camera unnecessary.
	Redundant storage	Extra copy for important recordings.
	Improved colors for the user interface	Uses Uniview standardized style to improve the user interface and enhance the identification of icons and symbols.
	Web-based control of system interface	Allows the user to change image resolution and preview sequence on the system interface through the Web interface.
	Alarm-triggered pop-up window	A window pops up on the system interface to alert the user when an alarm occurs.
	ARP protection	Obtains the MAC of its gateway at first startup and communicates with the gateway with this MAC ever since. The MAC can be edited as needed.
Improved features	Optimized system interface for ease of use	Improves window toolbar, shortcut menu, PTZ control, startup wizard, and the menu bar at the bottom of the screen for easier use.
	Enhanced playback on the Web interface	Allows smart playback and event-based playback on the Web interface.
	PTZ control	The system interface supports PTZ control using shortcut keys.
	Enhanced ability to connect to IP cameras	Added the following for Uniview IP cameras: 1. White balance mode 2. Scenes 3. Alarm indicating failed camera access attempts
	Enhanced downlink ONVIF	Allows the user to disable time synchronization with IP cameras. This feature prevents the problem that some third-party IP cameras cannot get online because they do not support time zone synchronization or time synchronization.
	Enhanced uplink ONVIF	1. Combines uplink ONVIF port with HTTP port to improve networking adaptability. 2. Reports more alarm types (disk offline, disk abnormal). 3. Allows the obtainment and modification of the device name.

Item	Feature	Description
	Log export	Allows the user to export logs as CVS files for easy search and management.
	One plug-in for NVR and IPC	Allows the user to install the plug-in only once for accessing the NVR and IP cameras using a Web browser.
	Plug&play	Changes the default IP address to 192.168.1.30 while also supports 192.168.0.30 to adapt to default network environments of most routers and network switches and simplify configuration.
	Network security	Improves protection against network attacks for better user privacy.
	User management	Increases the number of concurrent remote users from 16 to 128.
	Web-based upgrade	Filters file types for local upgrade through the Web interface.
	Maintenance tool	Allows the changing of user password through EZTools.
Deleted features	None	None

Table 5 B3116P20 Feature Changes

Item	Feature	Description
Newly added features	Manual alarm output control	Enables the user to trigger or clear output alarms manually.
	Preview control	Displays a logo in preview windows for the user with no live view permission in these windows.
	Packet capture on Web	Enables the user to capture packets on the NVR's NIC from the Web.
	Drag in preview window	Enables the user to switch a camera by dragging the preview window.
	Watermark on recording to prevent tampering	Enables the user to use a tool and determine whether the exported video recorded from a watermark-enabled camera has been tampered with.
	Playback by log	Enables the user to play recordings based on log search results in the log query window.
	Preview in camera window on NVR	Enables preview in the camera window.
	Bad sector detection	Enables disk status self-test and back sector detection.
	UNP connection by dial-up	Enables connection to a UNP server by dial-up.
	Audio detection alarm	Can identify and raise audio detection alarms when connected to IP cameras that support audio detection.
	Buzzer configuration	1. Allows users to stop buzzer manually. 2. Enables the buzzer to stop sounding when the alarm is cleared.
Improved features	Optimized startup wizard	Displays different procedures intelligently, simplifies steps and improves usability.
	Optimized stream selection in multi-window preview in system interface	Optimizes rules for choosing streams in multi-window preview: uses sub stream by default and uses main stream if sub stream is unavailable; enables stream preference configuration (main or sub stream) in multi-window preview.
	Enhanced capability of connecting IP cameras via ONVIF	Enables compatibility with XiongMai IP cameras, enables automatic adding of IP cameras and changing of IP addresses.
	Enhanced private	Enables the user to upgrade IP cameras by cloud and restore factory

Item	Feature	Description
	protocol	default settings for IP cameras on the NVR.
	Audio output control	1. The audio on/off button, switch camera button, and the volume slider are moved to the preview window toolbar, allowing the user to mute or play sound for each channel separately. 2. Enables the configuration of audio data transfer to control whether the IP camera sends audio data or not.
	Image snapshot and upload via FTP	Supports scheduled snapshot, alarm-triggered snapshot, and snapshot sending via e-mail and upload via FTP. Models that support this function: NVR308-32R, NVR308-64R.
	Snapshot as email attachment	Enables snapshot sending by email. Models that support this function: NVR308-32R, NVR308-64R.
	Optimized playback operation	1. Starts playback automatically for the corresponding camera when the user selects a preview window and then selects **Playback** from the shortcut menu. 2. Enables the user to deselect all the selected cameras by clicking the **Close All** button added in the playback window.
	Optimized zoom area	Specifies aspect ratio for zoom areas drawn by the user.
	Adaptive to changed camera IP address	The NVR can automatically identify and reconnect DHCP-enabled IP cameras after their IP addresses are changed.
	Enhanced uplink ONVIF capability	When connected to a higher-level management platform via ONVIF, the NVR supports recording type search, disk status search, smart playback, and enables snapshot from the platform without establishing live view.
	Maintenance info collection	1. Exported diagnosis information is improved. 2. Enables the user to switch on the debug function with Ctools to gather more information.
	Enhanced client functions	Enables the user to test network bandwidth and diagnose network delay on EZStation and mobile client.
	Automatic patrol resumption for PTZ camera	Enables the PTZ camera to resume interrupted patrol after a restart due to power failure.
	Domain name identification for NTP and other servers	Identifies domain names input for the NTP server and the server in network delay and packet loss test.
	Enhanced keyboard functions	Enables Uniview surveillance keyboards to control presets of PTZ cameras.
	Optimized cloud status	Displays causes for devices failed to connect to EZCloud.
Deleted features	None	None

4.2 Operation Change Description

None

5 Related Documents and Delivery Method

Table 6 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.
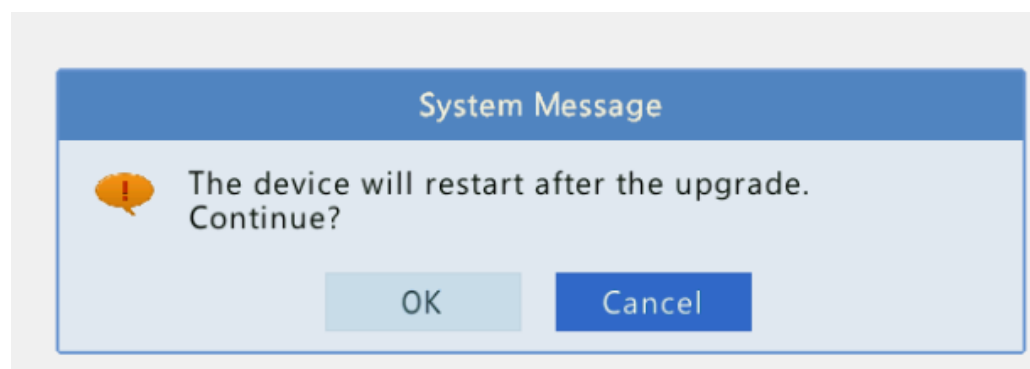
6.3 Upgrade Through the System Interface

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.
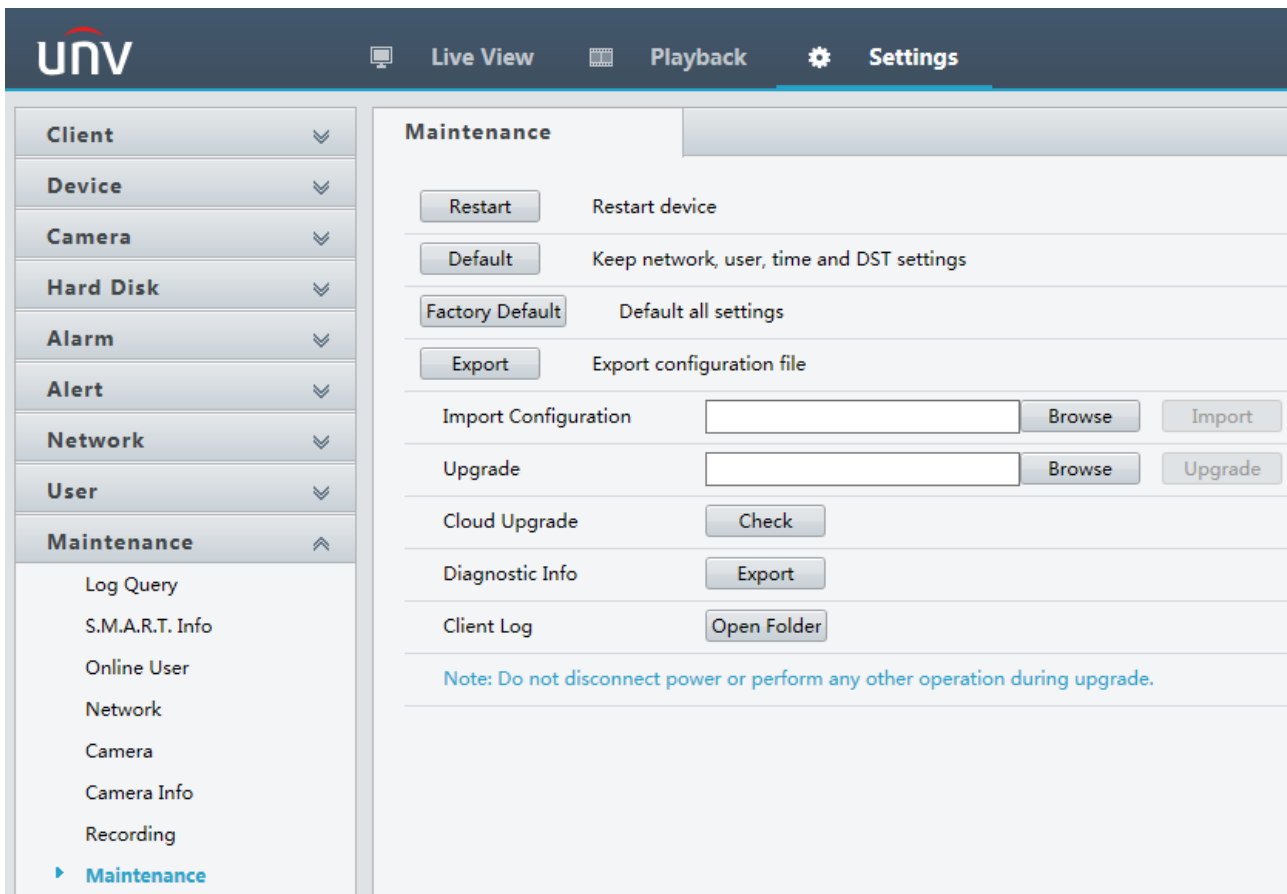
(1)   Click **Maintain** > **Upgrade**, and then click **Check** to check for the latest version.

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

6.4 Upgrade Through the Web Interface

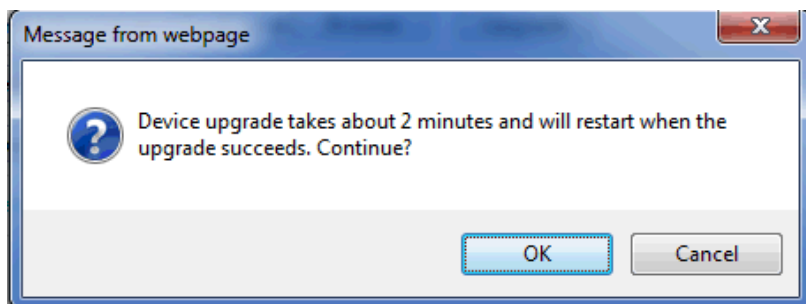Perform the following steps to upgrade through the Web interface:

(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.