

Upgrading the DVR System Firmware

4/8/16CH EH Nano/Nano⁺ series
EH6000H series

Quick Guide



The following sections are described how to upgrade the firmware of DVR system. There are 3 ways to upgrade the firmware and are same for EH Nano/Nano⁺ series and EH6000H series DVR.

We use 4CH/8CH EN Nano/Nano⁺ DVR as an example in following sections.



Please make sure your DVR model before download DVR firmware. Wrong DVR model's firmware may cause the DVR system break down.

I. USB Recovery

Save the firmware on USB pen drive and through the USB port on DVR unit to upgrade the firmware of DVR system.

1. Download the firmware from website <http://surveillance.aver.com/> >> **Support** >> **download Center** >> **Embedded hybrid DVR** >> **EH1004H-4 Nano/EH1008H-4 Nano** >> **firmware**. Then, click **Search** button to search firmware. After firmware has found, select the file named “**EH1000H-Nano_Firmware_USB_***” to download it.

The screenshot shows the AVer website's download center. The navigation path is: Home > download center > Embedded hybrid DVR > EH1004H-4 Nano/EH1008H-4 Nano > firmware. The search results table is as follows:

language	OS	description	date	download
		EH1000H-Nano_Firmware_Local_H8.03.02.00.07c	2011/11	
		EH1000H-Nano_Firmware_Remote_H8.03.02.00.07c	2011/11	
		EH1000H-Nano_Firmware_USB_H8.03.02.00.07c	2011/11	

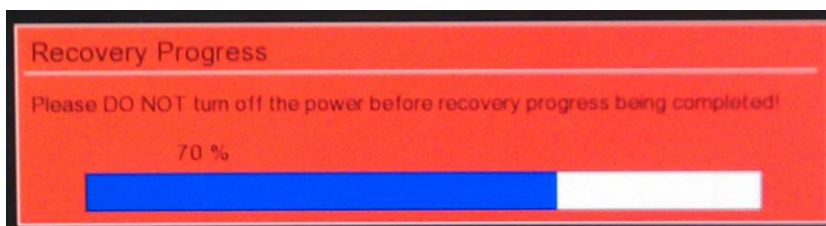
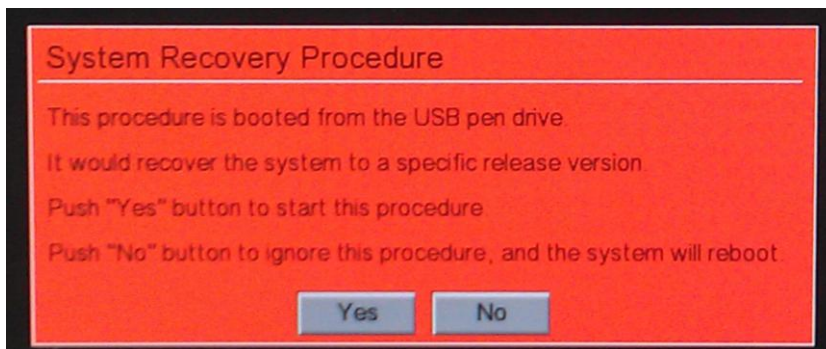
2. After download the firmware file, un-zip the file and save on USB pen drive.

[Note] Copy the entire firmware file folder into USB pen drive.

3. Plug the USB pen drive which has saved firmware file to left side of USB port on DVR unit. Then, power on DVR unit. While the DVR is reading file, the following screen is displayed. Please wait for a System Recovery Procedure window to show up.

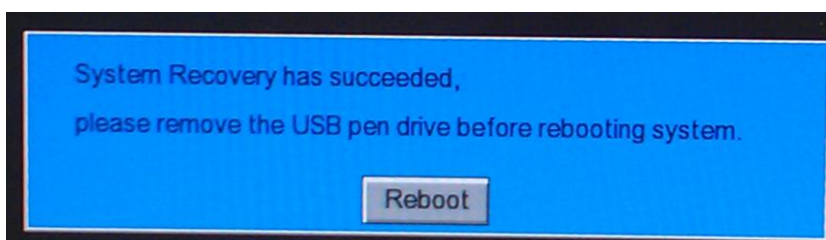


4. When System Recovery Procedure window show up, click **Yes** to continue it. If user wants to cancel the firmware upgrade procedure, click **No**.



5. After upgrade is completed, the Reboot window is show up. Remove the USB pen drive from DVR unit and click **Reboot** to restart DVR system.

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- i** - The DVR system will reboot automatically if Reboot button hasn't been click for a period time.
- Remember to remove USB pen drive before reboot the DVR system; otherwise, the DVR system will start upgrade process again.
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6. After reboot, user can go to **Setup >> System** to check the version of firmware and make sure the upgrade process is successful.


The screenshot displays the 'System Setting' window with the following sections:

- Storage Path:** A table with columns 'Disk Name', 'Free Space', 'Capacity', and 'Status'. One entry is shown: SATA-0-ST3250312CS, 208.1 GB, 228.3 GB, Normal. Below are 'Add' and 'Delete' buttons, and checkboxes for deleting data and logs.
- System Language:** A dropdown menu set to 'English'.
- Video Standard:** Radio buttons for 'NTSC' (selected) and 'PAL'. A 'Setting' button is next to it.
- Configuration:** 'Import' and 'Export' buttons.
- Touch Monitor:** 'Connect' and 'Adjust' buttons.
- Spot Monitor:** 'Autoscan' checkbox (checked) and 'All' checkbox (checked). A grid of checkboxes for channels 1-16, with 1-8 checked. A note states: 'Note: Spot Monitors support analog channels only'.
- Miscellaneous:** 'Playback Mode' dropdown (Instant Playback), 'Playback with key frame only in 4-split screen' (checked), 'Enable Intelligent Streaming of IP camera' (unchecked), 'Date Format' dropdown (mm/dd/yyyy), 'AutoScan Period' dropdown (3 Sec), 'Activate CPU meter after system boot up' (unchecked), and a 'CPU Meter' button.
- Login:** 'Auto Login after system boot up' (unchecked), 'Auto Record after system boot up' (unchecked), 'Auto start Network after system boot up' (unchecked), and 'Default User' dropdown (admin).
- Date and Time Setting:** 'System Date and Time' 04/07/2011 11:30:29 with a 'Setting' button, and 'Daylight Saving Time' (checked) with a 'Setting' button.
- Firmware:** 'Product Version' field containing 'H8.03.02.00.00a' (highlighted with a red box) and an 'Update' button. 'IPCam Module' field containing '1.0.0.99' and an 'Update' button.

At the bottom right, there are 'OK', 'Cancel', and 'Default' buttons.

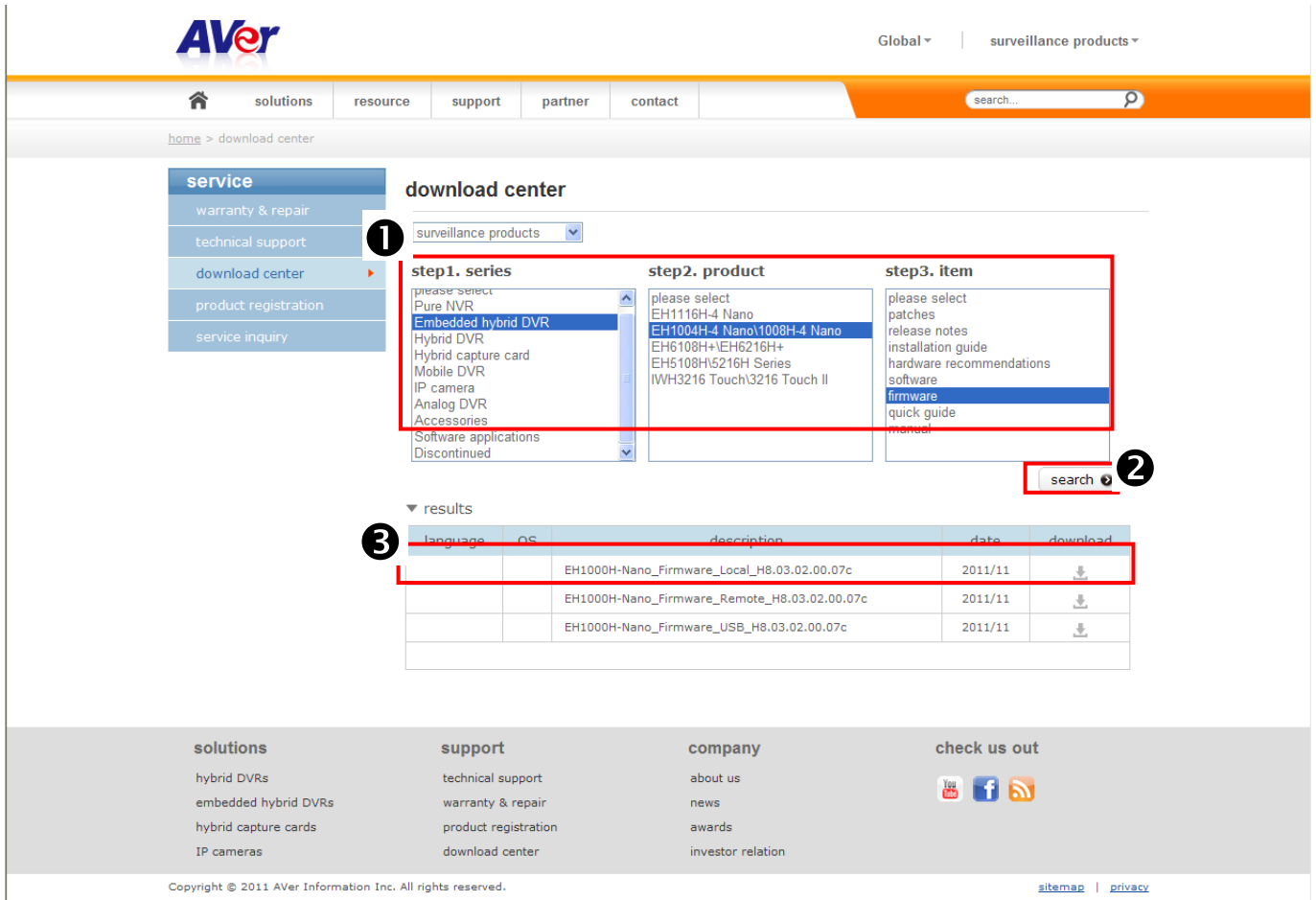
II. Local UI Upgrading

Upgrade the DVR system firmware through **Update** button in System Setting window.




-  - When upgrading DVR firmware, the IP camera patch file is upgrading at the same time.
- When upgrading IP camera patch file, only IP camera patch file is upgraded.

1. Download the firmware from website <http://surveillance.aver.com/> >> **Support** >> **download Center** >> **Embedded hybrid DVR** >> **EH1004H-4 Nano/EH1008H-4 Nano** >> **firmware**. Then, click **Search** button to search firmware. Select the file named “**EH1000H-4 Nano_Firmware_Local_***” to download it. After download the firmware file, unzip it and save the firmware file on USB pen drive.

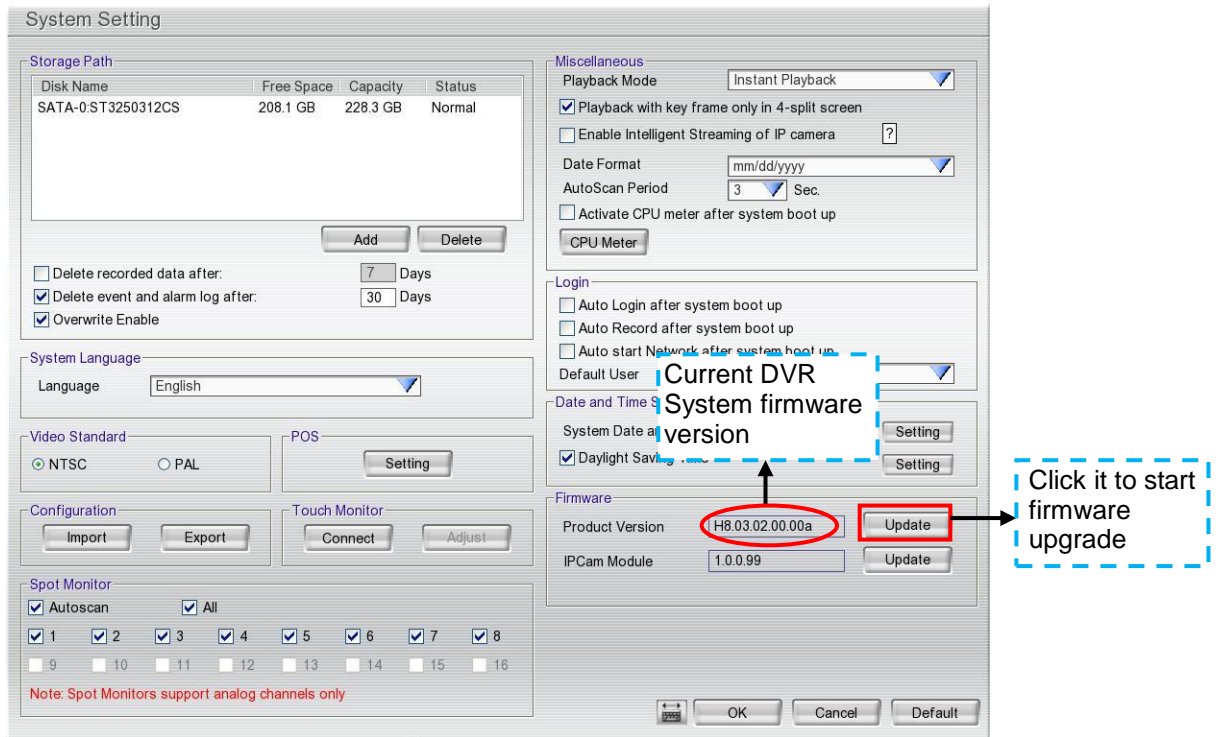
[Note] Firmware file is “*.bin” file type.



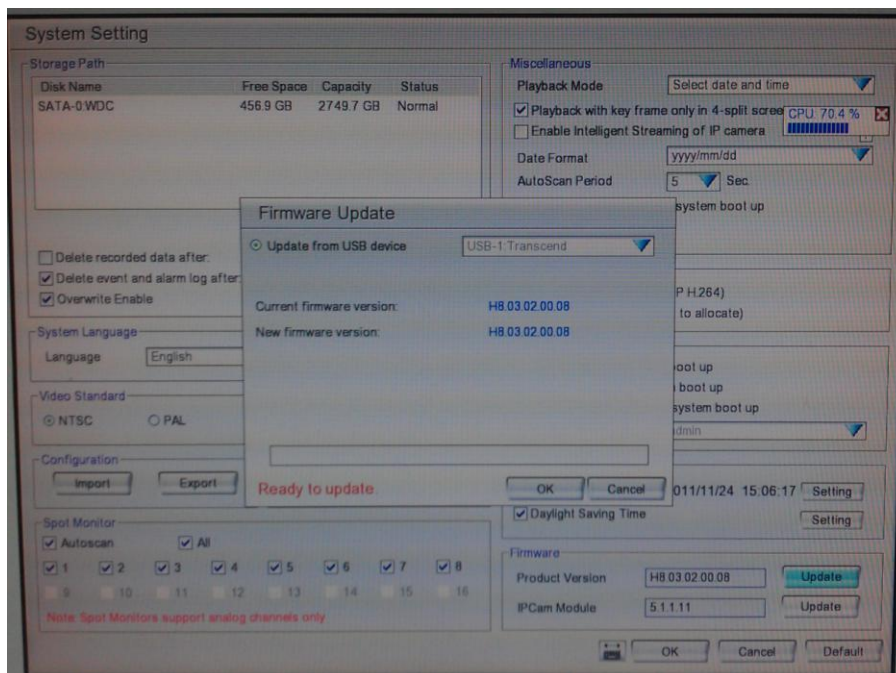
The screenshot shows the AVer website's download center. The page has a navigation bar with 'solutions', 'resource', 'support', 'partner', and 'contact'. A search bar is in the top right. The main content area is titled 'download center' and has a sidebar with 'service' options. The search process is shown in three steps: 1. Selecting 'Embedded hybrid DVR' in the 'step1. series' dropdown. 2. Selecting 'EH1004H-4 Nano/EH1008H-4 Nano' in the 'step2. product' dropdown and 'firmware' in the 'step3. item' dropdown. 3. Clicking the 'search' button. Below the search bar, a table of results is shown with columns for language, OS, description, date, and download. The first result is highlighted with a red box.

language	OS	description	date	download
		EH1000H-Nano_Firmware_Local_H8.03.02.00.07c	2011/11	
		EH1000H-Nano_Firmware_Remote_H8.03.02.00.07c	2011/11	
		EH1000H-Nano_Firmware_USB_H8.03.02.00.07c	2011/11	

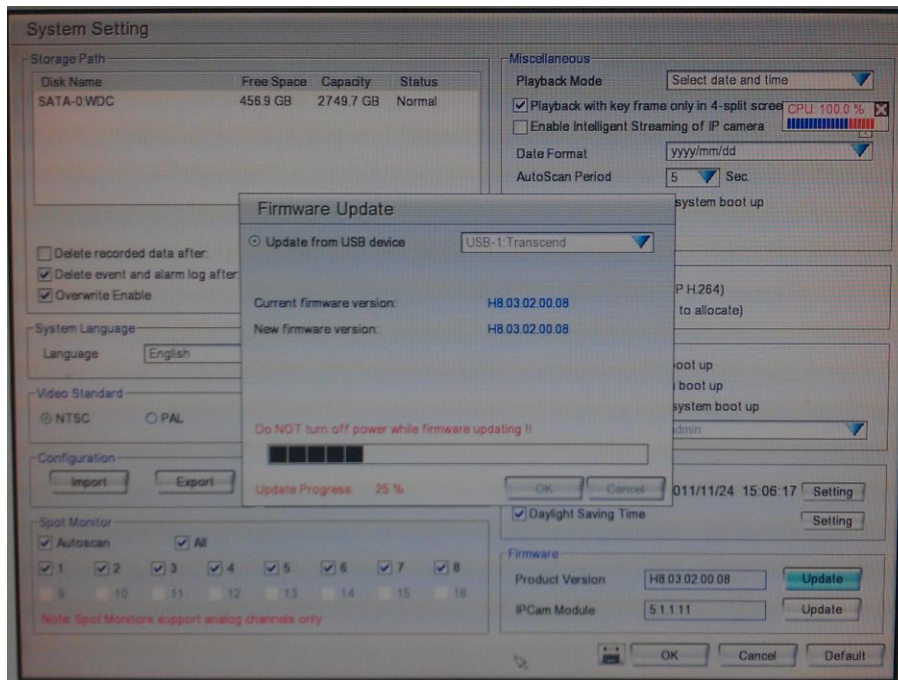
2. Plug the USB pen drive to USB port on DVR unit. Then, click **Setup >> System** and click Update button.



3. After click update button, Firmware Update dialog is shown up and DVR system has detected the firmware file on USB pen drive and ready for upgrading procedure. User can check the firmware version to make sure the firmware is newer than current version. Click **OK** to start upgrading procedure.




4. Wait for a while, DVR system is starting to upgrade firmware.



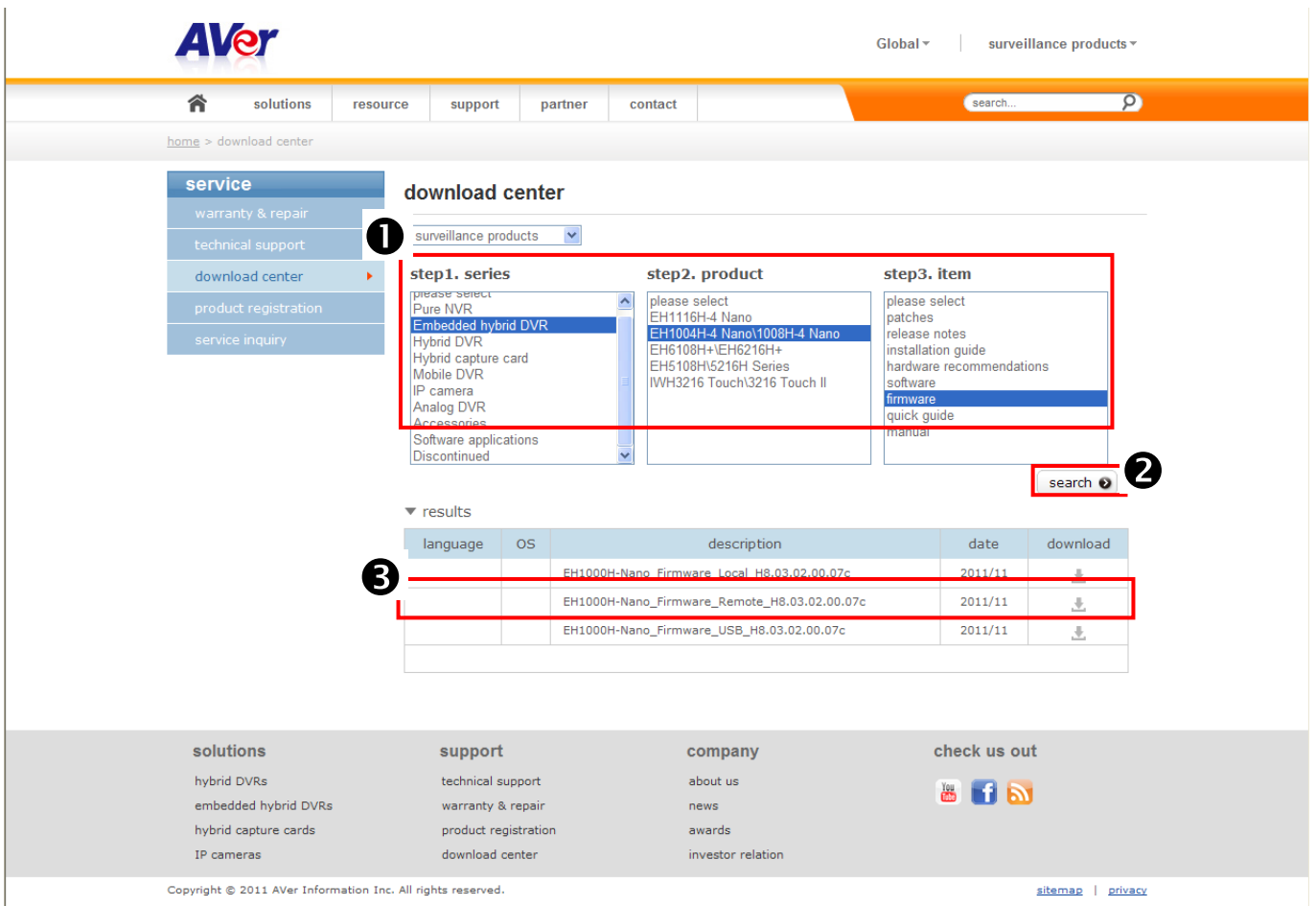
5. After upgrade is completed, click **OK** and DVR system will reboot automatically.

III. Remote ISP Upgrading




User can upgrade the DVR firmware from remote PC.

-  - The PC that uses to upgrade DVR firmware must can connect to DVR system through LAN or WAN network.
- The DVR hard disk needs to have 250MB free spec.
- When upgrading DVR firmware, the IP camera patch file is upgrading at the same time.

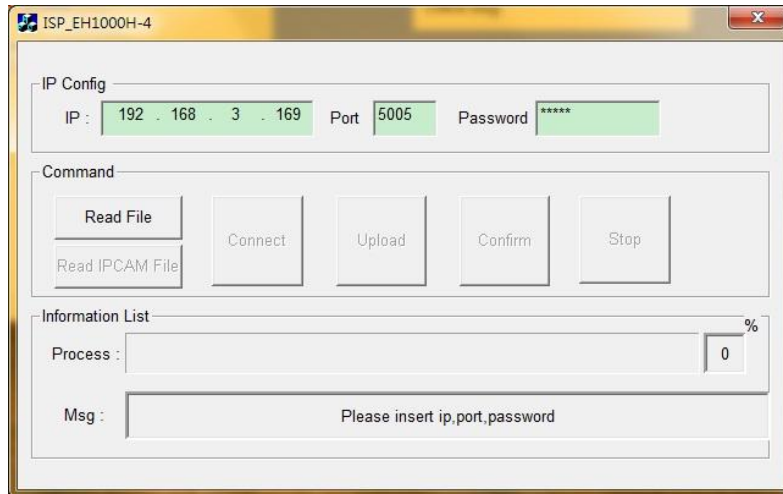
1. Download the firmware from website <http://surveillance.aver.com/> >> **Support** >> **download Center** >> **Embedded hybrid DVR** >> **EH1004H-4 Nano/EH1008H-4 Nano** >> **firmware**. Then, click **Search** button to search firmware. Select the file named “**EH1000H-4 Nano_Firmware_Remote_***” to download it. After download the firmware file, unzip it and save the firmware file on PC. The firmware file contents one ISP application and DVR firmware file.



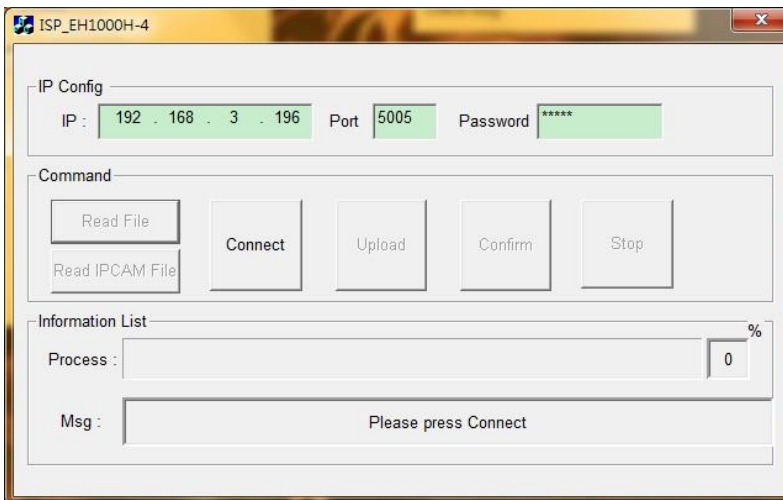
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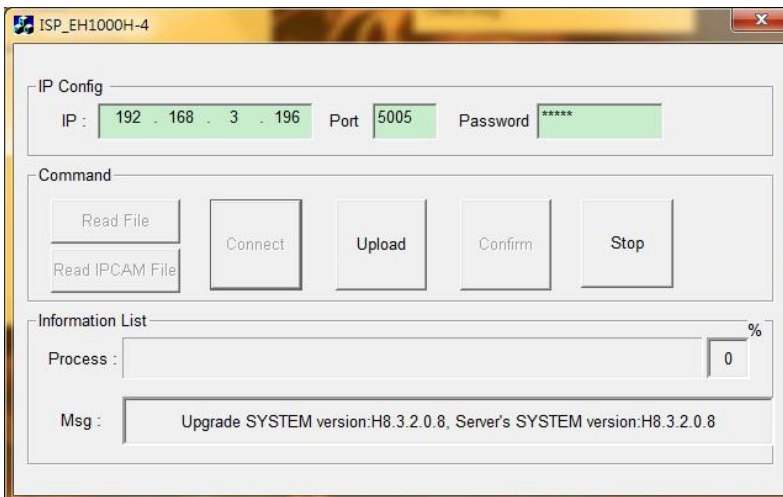
2. Run the ISP application on PC and enter the DVR's IP address, Port (Remote Update Configuration port in Network setting), and Password (admin password). Then, Click **Read File** button and locate where firmware file is.



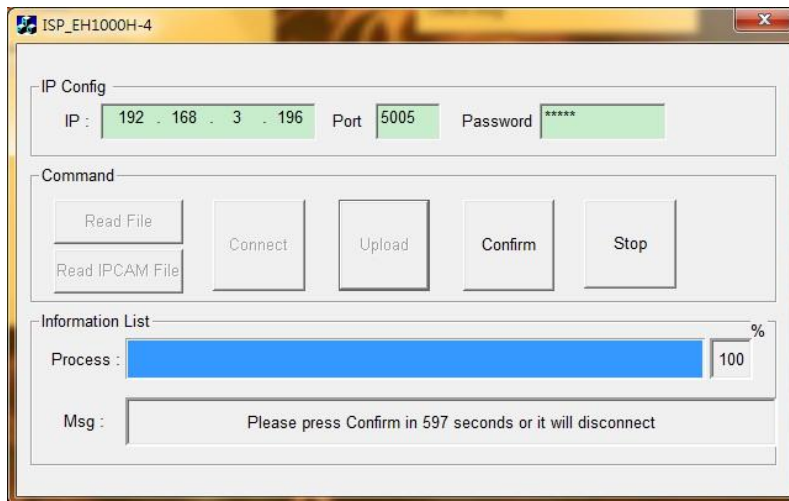
3. Click **Connect** button to connect with DVR system.



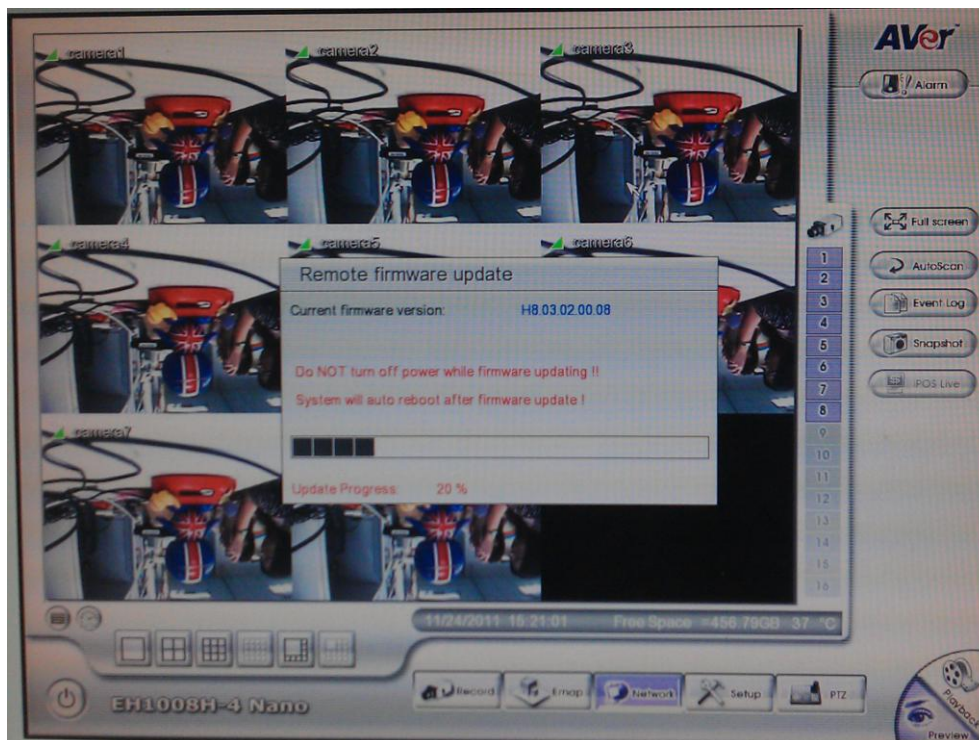
4. After connected with DVR system, click **Upload** button to upload the firmware to DVR system.



5. Then, click **Confirm** button to start upgrading procedure. If user wants to discontinue the upgrade procedure, click **Stop** button instead **Confirm** button.



6. After confirm the upgrade procedure, the upgrading window is displayed on screen at DVR system site.



7. Wait until the upgrade complete message is displayed on ISP application, the upgrade procedure is completed. The DVR system will reboot automatically.

