

Firmware Update Procedures

NVS-35

This document provides procedures for updating the NVS-35 Dual Streaming Encoder.

Updating the NVS-35 Dual Streaming Encoder Firmware

What items you should prepare before updating the firmware

- The latest NVS-35 firmware update zip file x1.
The latest firmware zip file can be downloaded from the NVS-35 product page of the Datavideo official website <https://www.datavideo.com/product/NVS-35>. After the downloaded firmware zip file is unzipped, you can see two firmware files.
 - **NVS-35 Firmware Update 2.2.0 (MCU 21.3.3.0):**
 - ◆ “NVS35_FW_2_2_0.tar.gz” is for you to update the firmware by the NVS-35 web UI.
 - ◆ “nvs35_fw_recovery_image.tar.gz” is for you to update the firmware by using a USB flash drive.
- NVS-35 x 1
- USB flash drive x 1 (If you want to update the firmware by using a USB flash drive)
- 12V power adapter x 1
- Laptop or PC x 1
- RJ-45 Ethernet cable x 1

This document describes how to perform firmware update on a **Windows** computer.

System Connection Diagram



NVS-35: Firmware Update by a USB Flash Drive



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Checking the Firmware Version

1. Please connect a DC 12V power adapter to the NVS-35.
2. Please connect an Ethernet cable from the LAN port of the NVS-35 to the RJ-45 Ethernet port of your laptop.
3. Please turn on the power of the NVS-35.
4. The default static IP address of the NVS-35 is 192.168.1.200. So, before connecting your laptop to the NVS-35, you have to set the IP address of your laptop to be within the same LAN of the NVS-35 which is shown in the following diagram.

(TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 1 . 30

Subnet mask: 255 . 255 . 255 . 0

Default gateway:

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server:

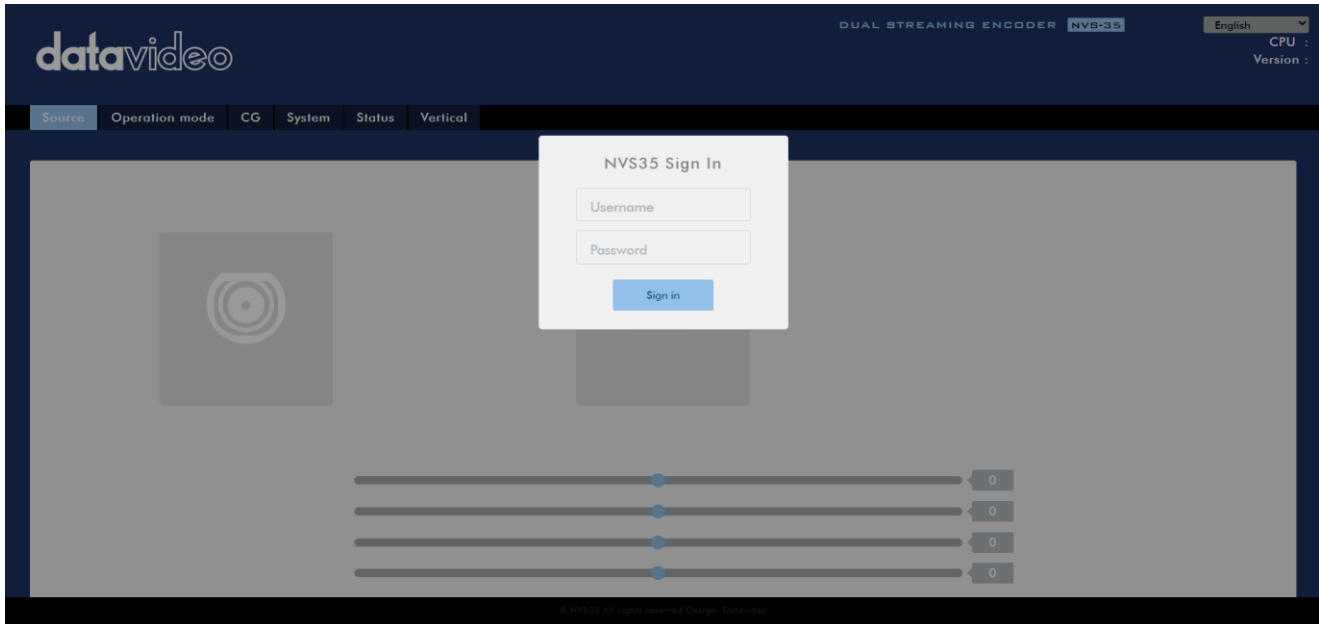
Alternate DNS server:

☐ Validate settings upon exit

Advanced...

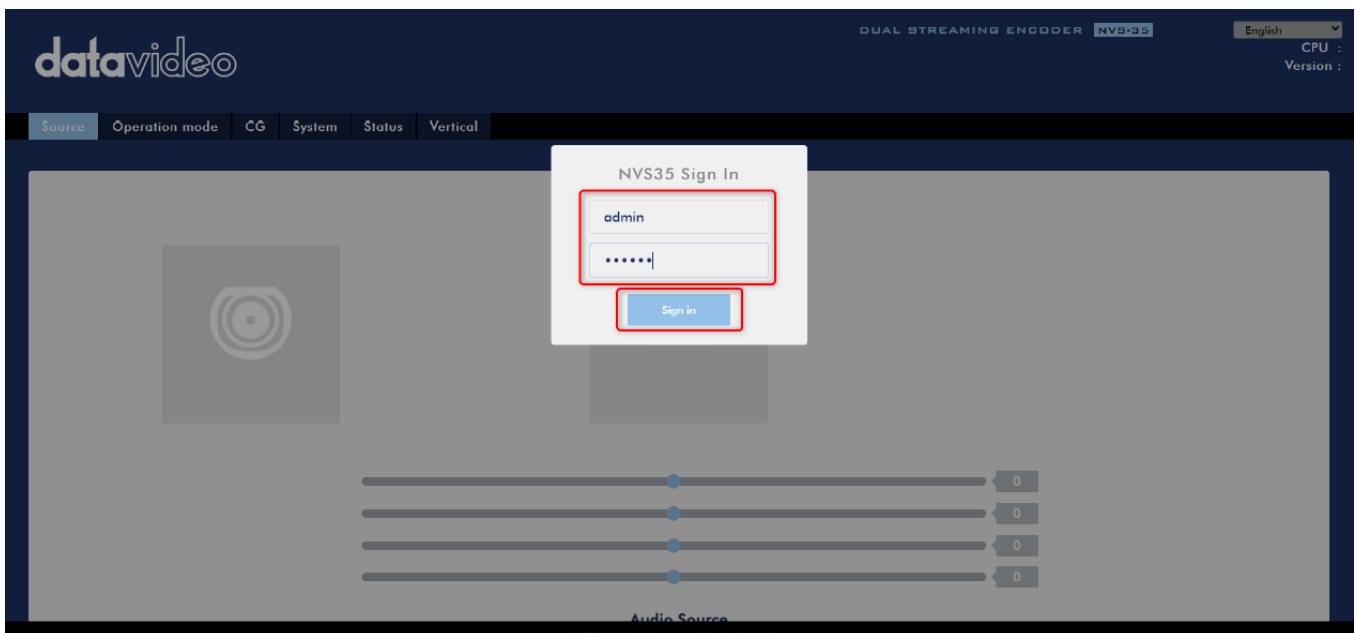
OK Cancel

5. Please enter NVS-35's default static IP address 192.168.1.200 into the address bar of your web browser to enter the NVS-35 web UI. After entering into the web UI, you will see a login box for you to enter your "Username" and "Password" for signing into it.

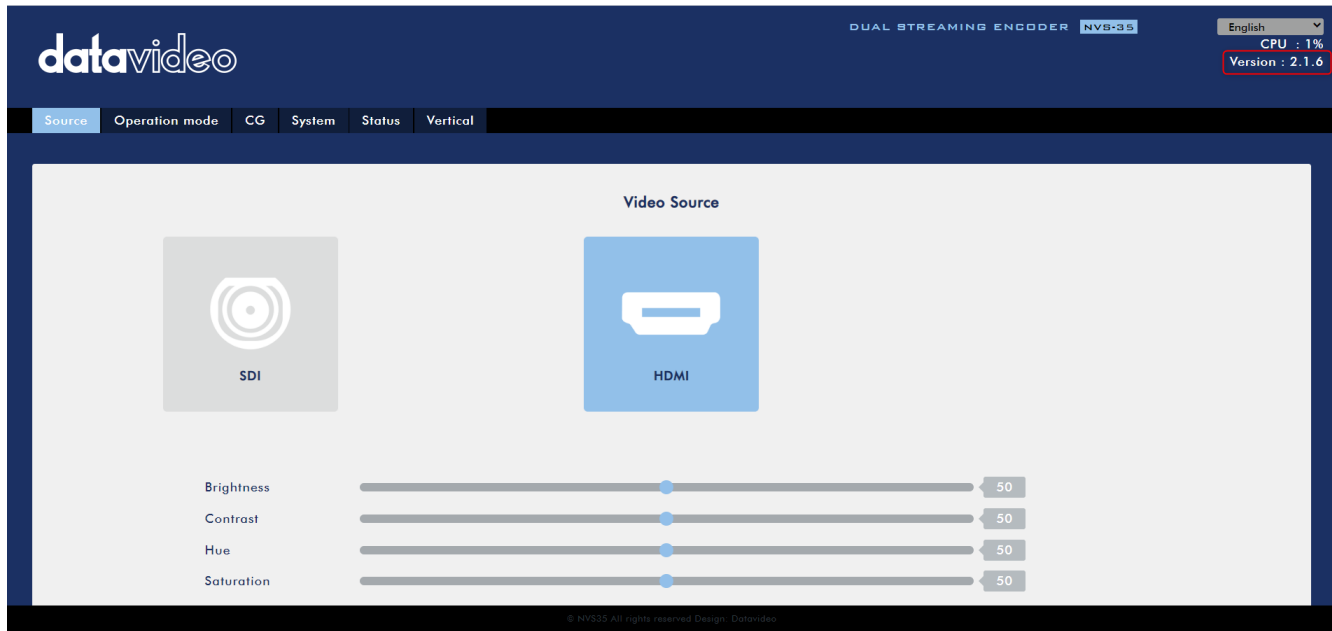


6. Please enter the "Username" and "Password" for the NVS-35 web UI.

- Username: admin
- Password:000000



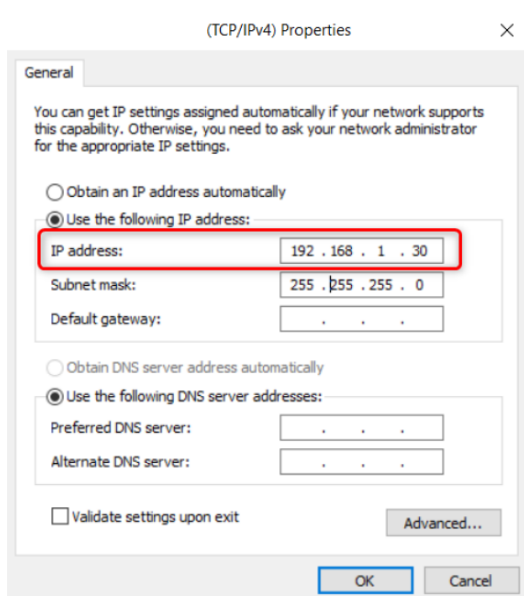
7. After entering into the NVS-35 web UI, you can see its main interface which is shown in the following diagram. And the current firmware version will be shown on the top-right side of the NVS-35 web UI.



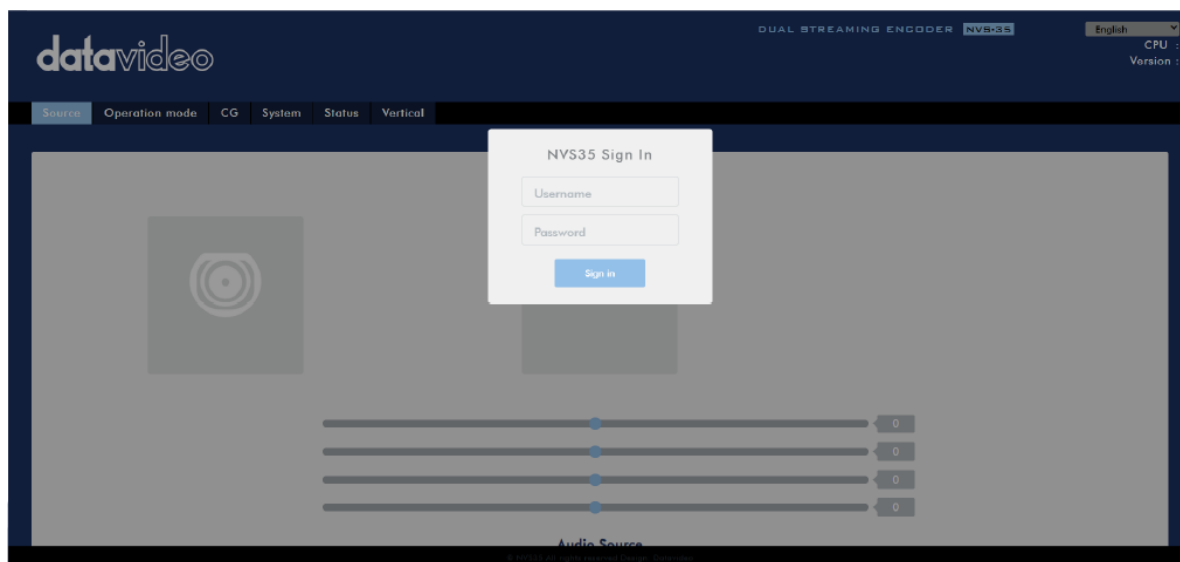
Updating the Firmware

Updating the Firmware by the NVS-35 Web UI

1. Please connect a DC 12V power adapter to the NVS-35.
2. Please connect an Ethernet cable from the LAN port of the NVS-35 to the RJ-45 Ethernet port of your laptop.
3. Please turn on the power of the NVS-35.
4. The default static IP address of the NVS-35 is 192.168.1.200. So, before connecting your laptop to the NVS-35, you have to set the IP address of your laptop to be within the same LAN of the NVS-35 which is shown in the following diagram.

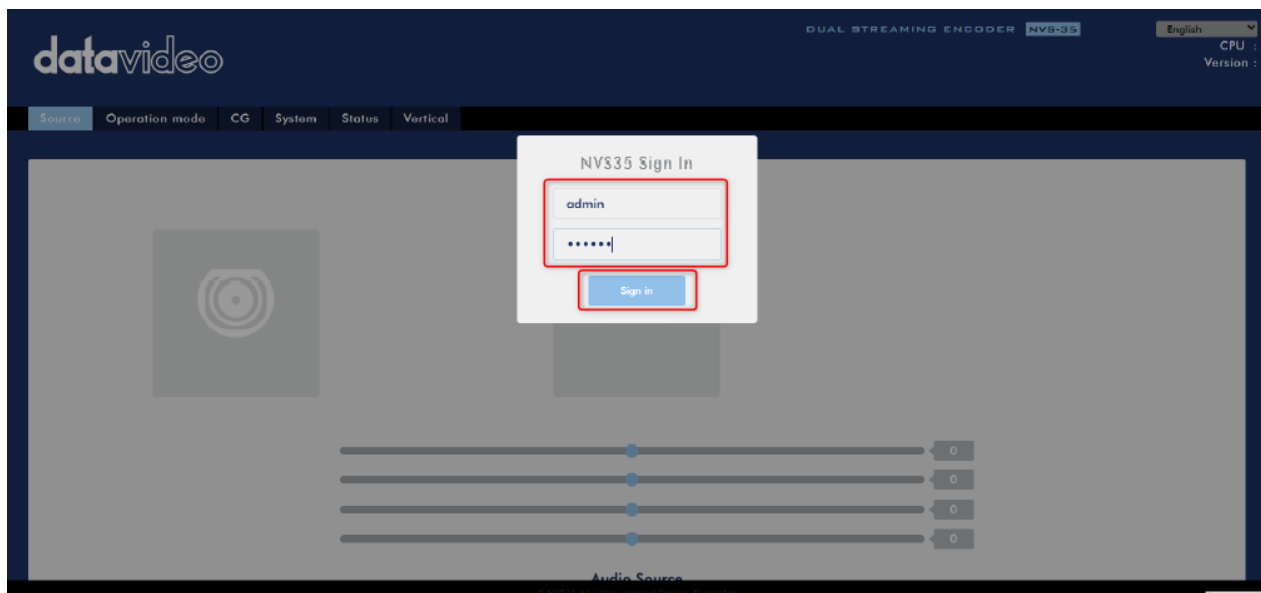


5. Please enter NVS-35's default static IP address 192.168.1.200 into the address bar of your web browser to enter the NVS-35 web UI. After entering into the web UI, you will see a login box for you to enter your "Username" and "Password" for signing into it.

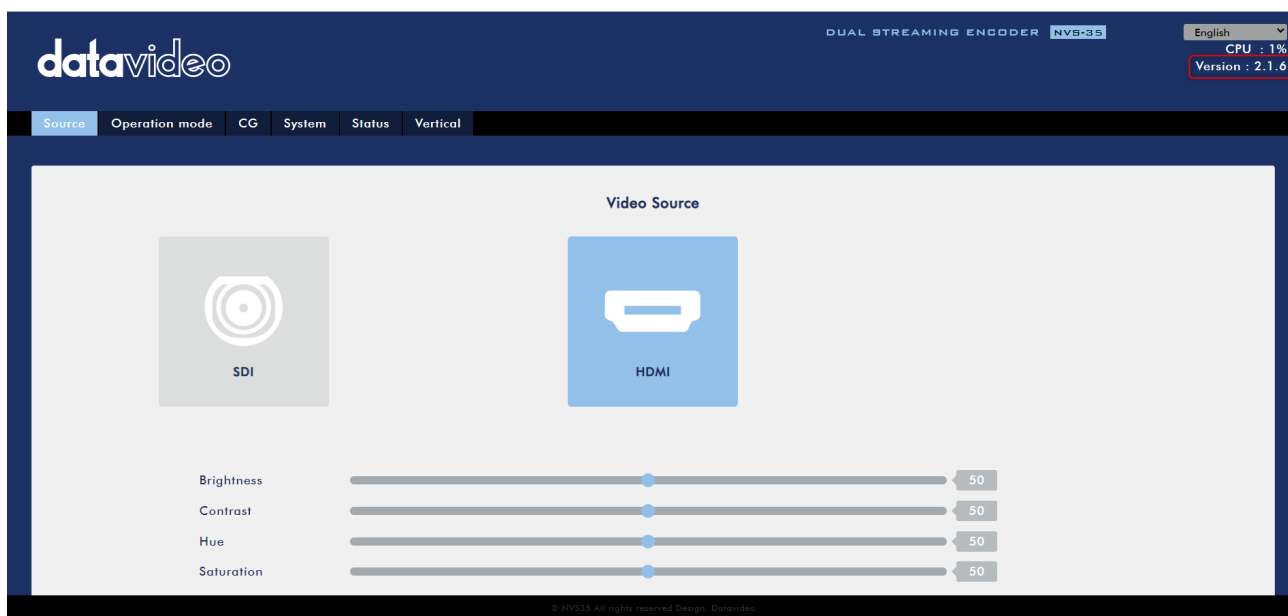


6. Please enter the “Username” and “Password” for the NVS-35 web UI.

- Username: admin
- Password:000000



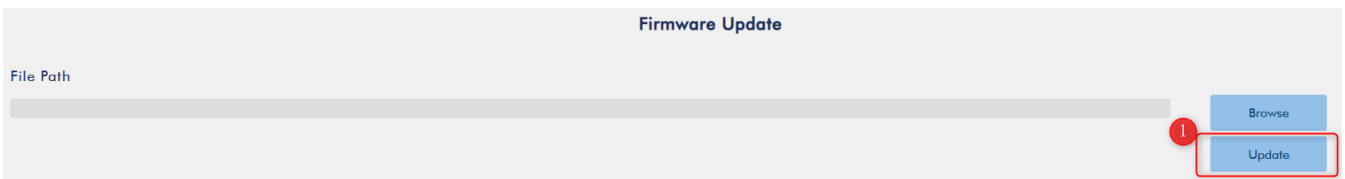
7. After entering into the NVS-35 web UI, you can see its main interface which is shown in the following diagram. And the current firmware version will be shown on the top-right side of the NVS-35 web UI.



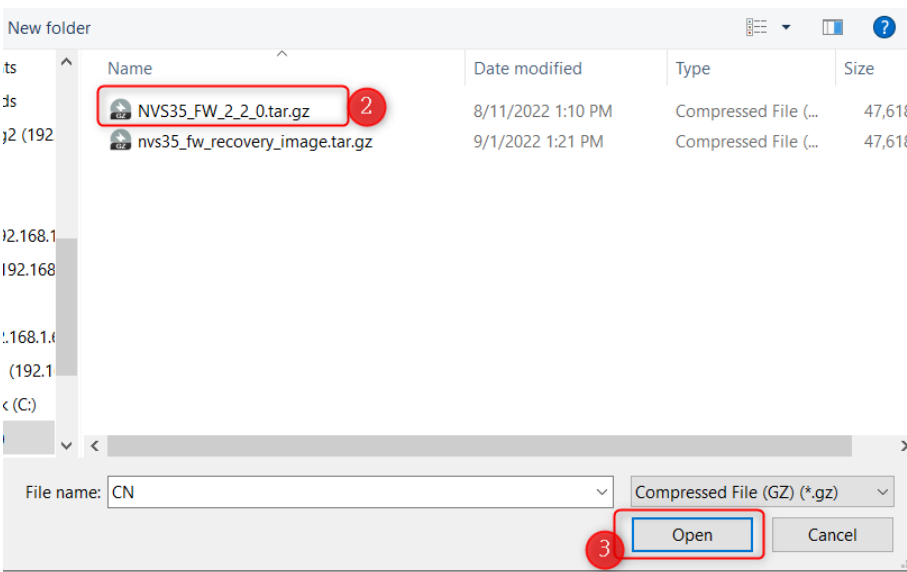
8. Please click the "System" option from the NVS-35 web UI.



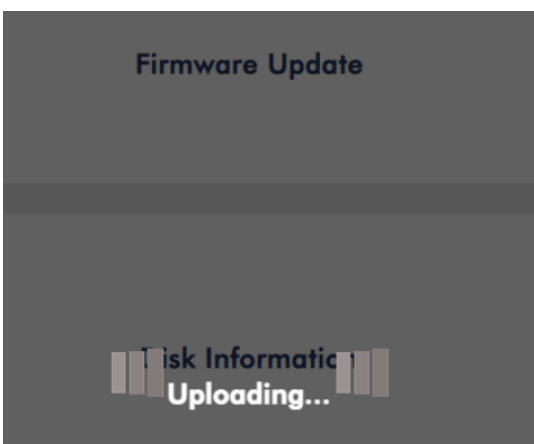
9. Please click the "Browse" button from the "System" page to select the latest downloaded firmware from your laptop.



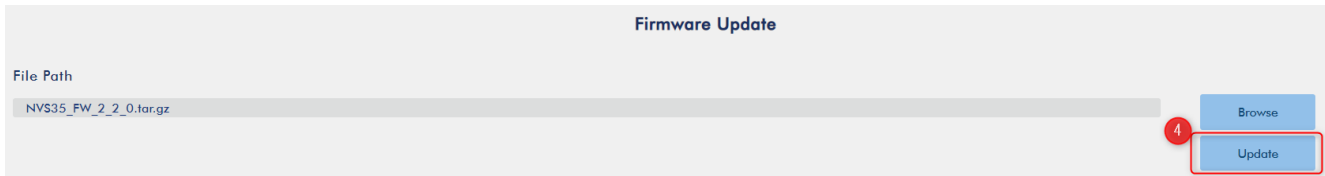
10. Please select the latest firmware from the hard disk of your laptop and then press the "Open" button.



11. You will see that the word "Uploading" is shown to indicate that the selected firmware is being uploaded to the NVS-35.



12. After the firmware uploading is finished, please click the “Update” button to start the firmware update procedure.

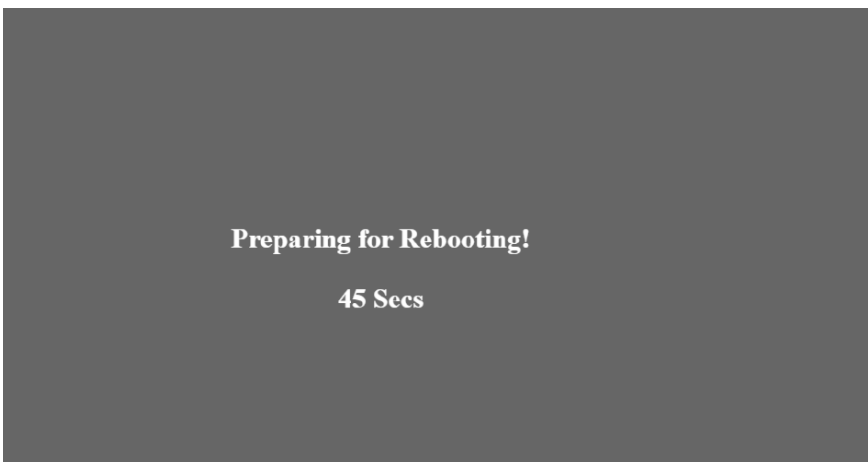


13. You will see the word “Updating” to indicate that the firmware update procedure is started.



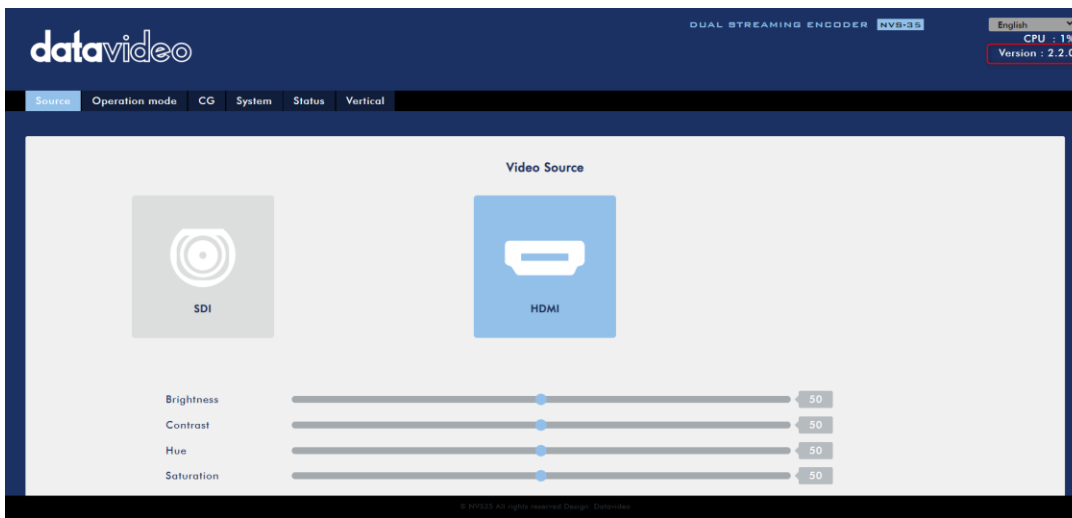
14. You will see the dialogue box “The fw update success”, please click the “OK” button.

15. The device will reboot itself after it is updated successfully.




Note: If the device is recording or streaming, you must turn them off before initiating the firmware update.

16. After the firmware is updated successfully, you can log into the NVS-35 web UI again and then you can see the new firmware version is updated successfully.



Updating the Firmware by a USB Flash Drive

1. Please unzip the downloaded NVS-35 firmware update file **“NVS-35 Firmware Update 2.2.0 (MCU 21.3.3.0)”**, and then you can see the firmware update file for the USB flash drive which the file name is

“nvs35_fw_recovery_image.tar.gz”  **nvs35_fw_recovery_image.tar.gz**

2. Please save the **“nvs35_fw_recovery_image.tar.gz”** into the root directory of your USB flash drive (The USB flash drive must be single partitioned).

3. Please connect a 12V DC power cable to the NVS-35 and then turn on the power.

4. The **“BIRATE”**, **“VERTICAL”**, **“RECORD”** and **“STREAM”** buttons will be flickering in red.

5. After the flicker is finished, those four buttons will be lit in solid white and then you can remove the USB flash drive.

6. Please wait for about 1 minute and then the NVS-35 will be reset and the whole firmware update procedure is done successfully.