

Firmware Update Procedure for KMU-200_NVS-31 MARK III

1. Introduction

The NVS-31 MARK III is a built-in streaming device in the KMU-200.

Firmware update is performed by connecting the target KMU-200 4K Multi-channel Streaming Switcher to the Ethernet Port of a Windows Computer.

This firmware update procedure applies to the following product.

Product Model	KMU-200
Product Name	4K Multi-channel Streaming Switcher

There is one firmware file

● Firmware file x 1: NVS31_MKIII_2_1_2.tar.gz

Note: Note: This firmware version is for the serial number after 00755459 (00755459 is not included), if your serial number is before 00755459 (00755459 is included), please use version 2.1.0 firmware.

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

Screen images from the Windows 10 operating system are used in this document as an example. Images used in this document may differ from the actual screens.

For details on Windows and computer operations, please refer to the instruction manual of your computer.

2. Preparation

2.1 System Requirements

A computer that meets the following requirements is necessary to perform the firmware update procedure.

OS	Windows 7, Windows 8, Windows 10
Supported Browsers	Google Chrome 54.0.2840 or above Firefox 50.1.0 or above Internet Explorer 11 Microsoft Edge 79.0.309 or above

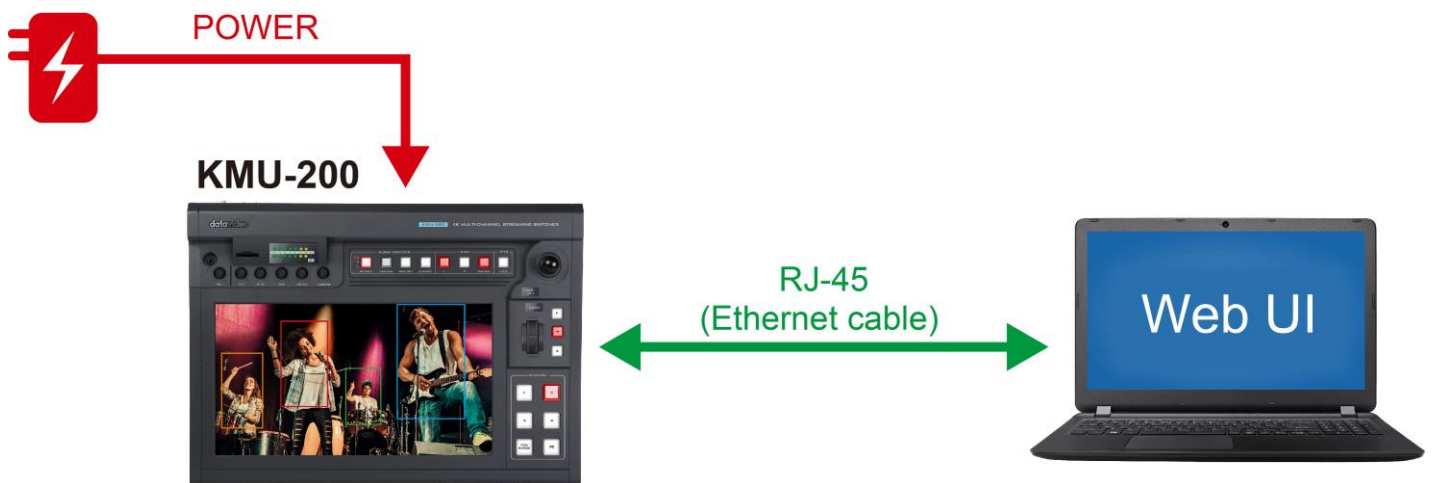
Operation is not guaranteed on all computers that meet the above requirements

2.2 Firmware Update Preparation

The following items are required to perform this firmware update. Please prepare this items in advance before performing the update.

KMU-200 x 1	The KMU-200 which is needed for updating the firmware.
12V Power adapter x 1	The 12V power adapter for the KMU-200.
Laptop x 1	The laptop which is used to connect to the KMU-200.
Ethernet Cable x 1	The Ethernet cable which is used to connect the KMU-200 and your laptop.
Latest Firmware ● NVS31_MKIII_2_1_2.tar.gz	The latest downloaded firmware file.

2.3 System Connection Diagram



2.4 Checking the Firmware Version

2.4.1. Please reset the IP address of the NVS-31 MARK III to the factory default value 192.168.1.200 according to the chapter 5 of the KMU-200 user manual.

Please reset the IP address of the NVS-31 MARK III to the factory default value 192.168.1.200 according to the KMU-200 user manual.

2.4.2 Please set the IP address of your laptop which is used to connect to the KMU-200 to be within the same LAN as the NVS-31 MARK III.

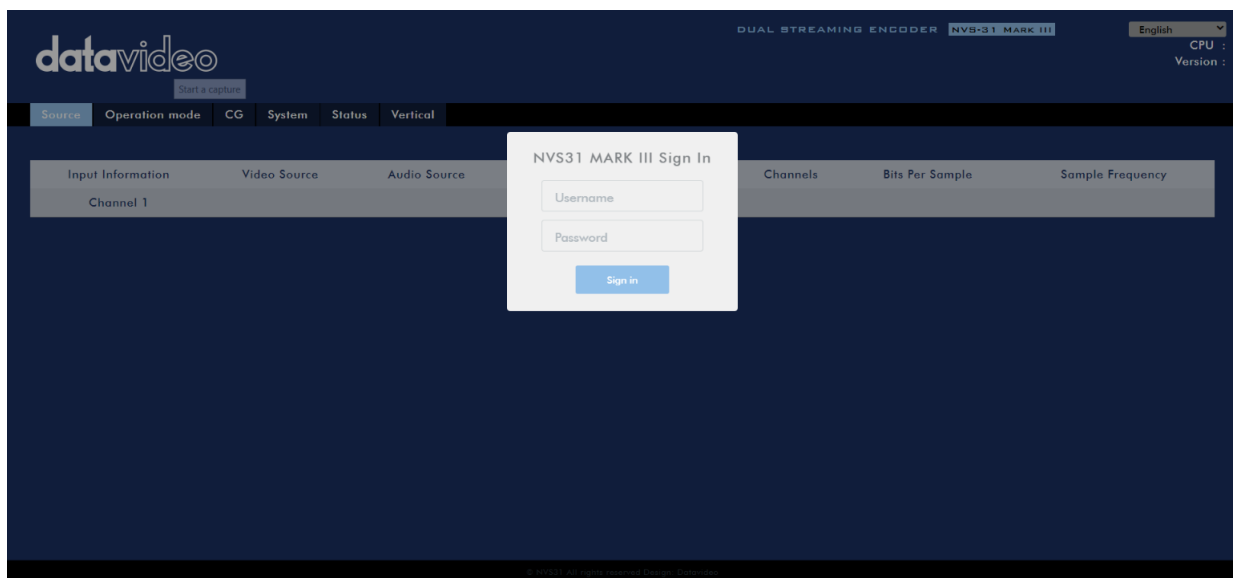
Please set the IP address of your laptop which is used to connect to the KMU-200 to be within the same LAN as the NVS-31 MARK III.

2.4.3 Please use an Ethernet cable to connect from the RJ-45 port of your laptop to the STREAM RJ-45 port of the KMU-200.

Please use an Ethernet cable to connect from the RJ-45 port of your laptop to the STREAM RJ-45 port of the KMU-200.

2.4.4. Please connect to the NVS-31 MARK III web UI by using the default IP address of 192.168.1.200.

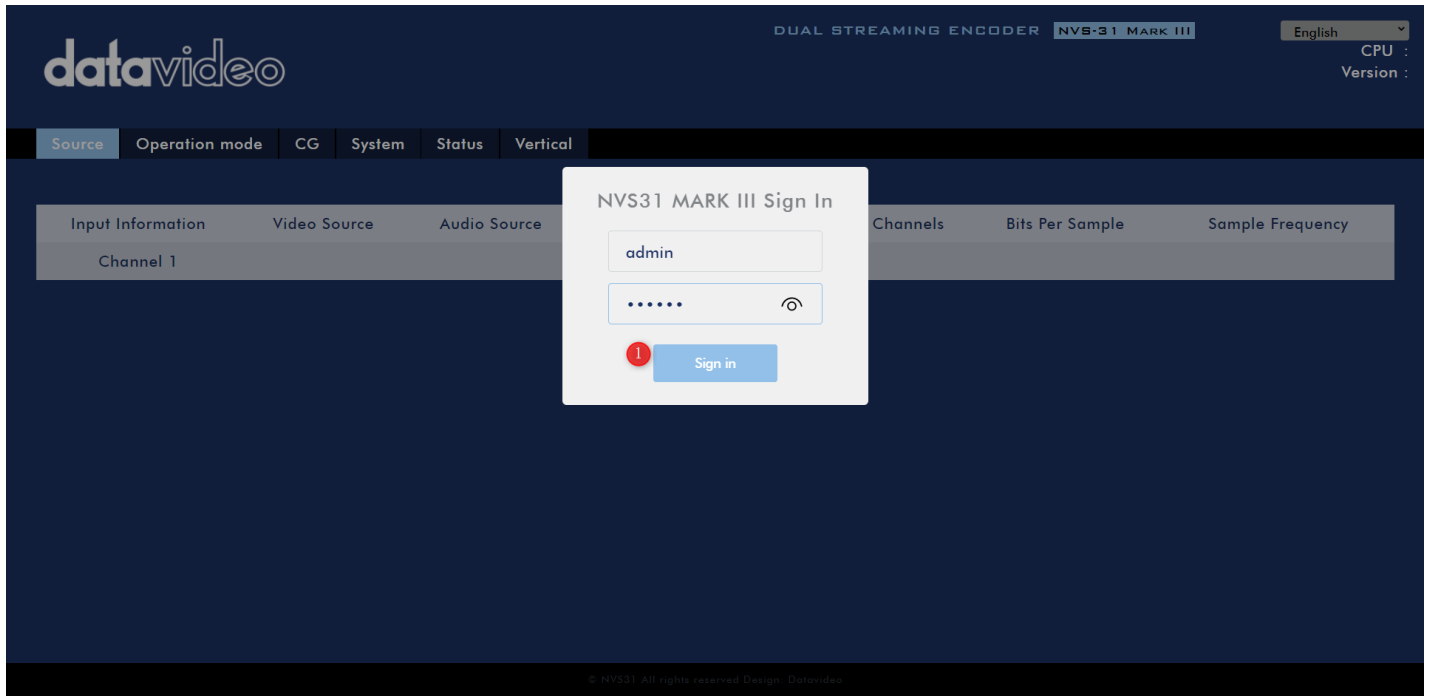
Please connect to the NVS-31 MARK III web UI by using the IP address of the 192.168.1.200. After that, you can see the login page of the NVS-31 MARK III which is shown as following diagram.



2.4.5. Please use following information to login into the NVS-31 MARK III web UI.

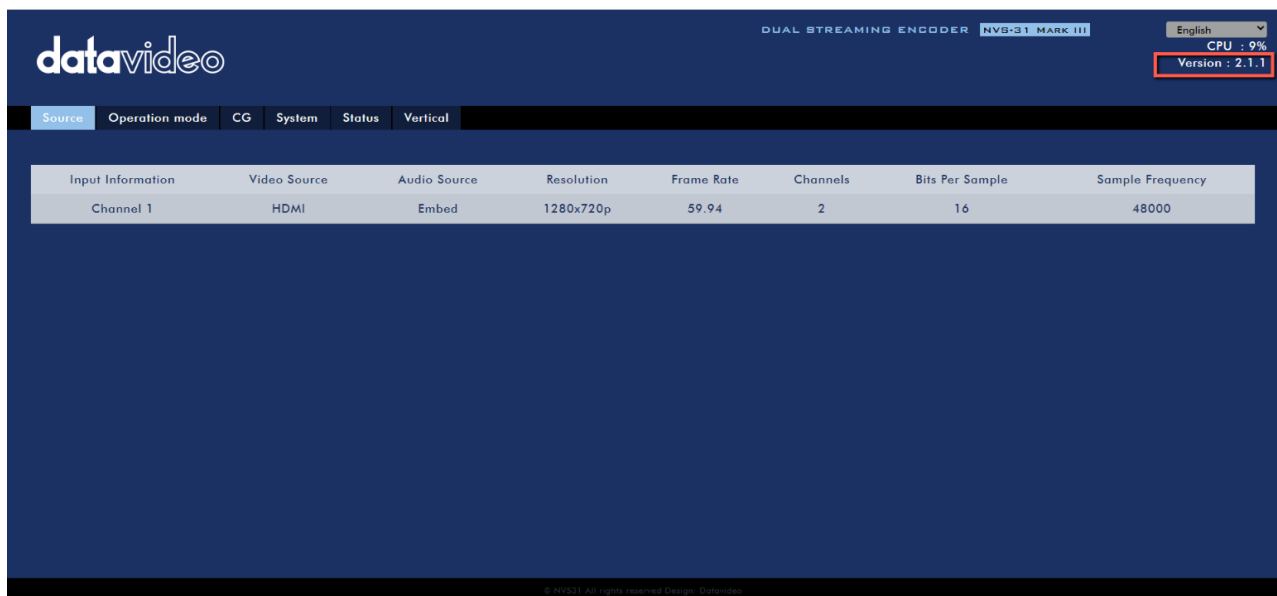
■ Username: admin

■ Password: 000000



2.4.6. After logging into the NVS-31 MARK III web UI, you can see that the current firmware version number.

After logging into the NVS-31 MARK III web UI, you can see that the current firmware version number is located at the top-right side of the screen which is shown as the following diagram.



2.5 Preparing the Firmware


2.5.1. Download the firmware

KMU-200 Product Page from the Datavideo website:

<https://www.datavideo.com/product/KMU-200>

2.5.2. Unzip the firmware

Please unzip the downloaded firmware into the hard disk of your laptop and then you can see following firmware file for the NVS-31 MARK III.

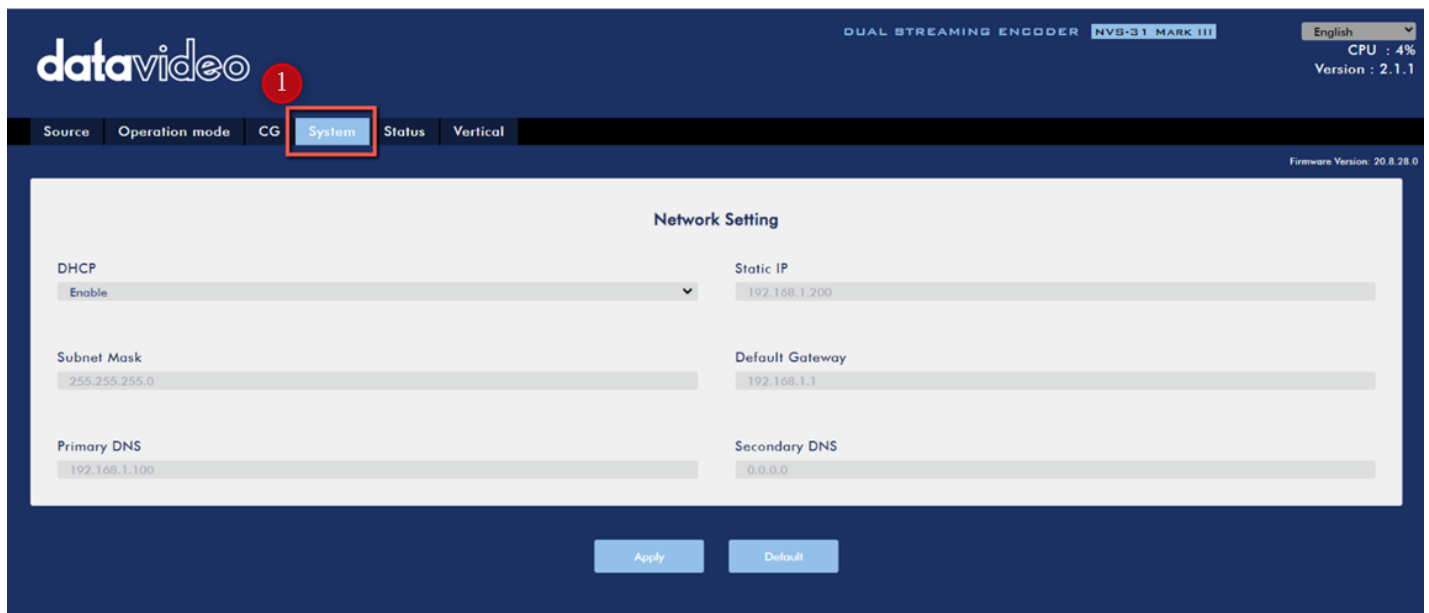
 NVS31_MKIII_2_1_2.tar.gz

3. Update

3.1 Updating the firmware

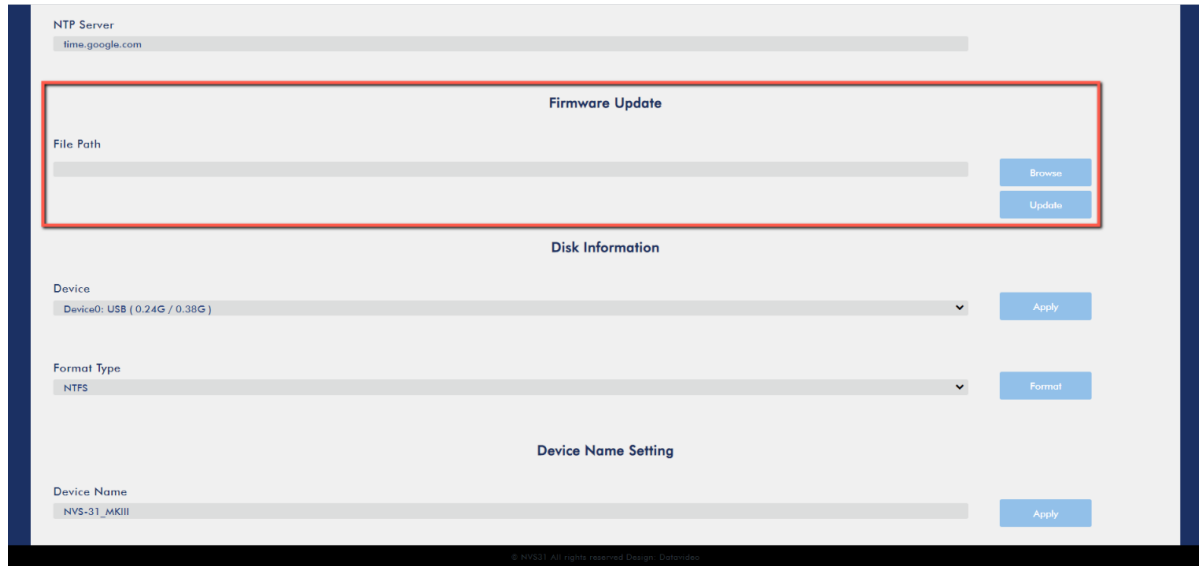
3.1.1. Please click the [System] option from the NVS-31 MARK III web UI.

Please click the [System] option of the NVS-31 MARK III web UI and then the screen will be shown as the following diagram.



3.1.2. You can see the [Firmware Update] section from the NVS-31 MARK III web UI.

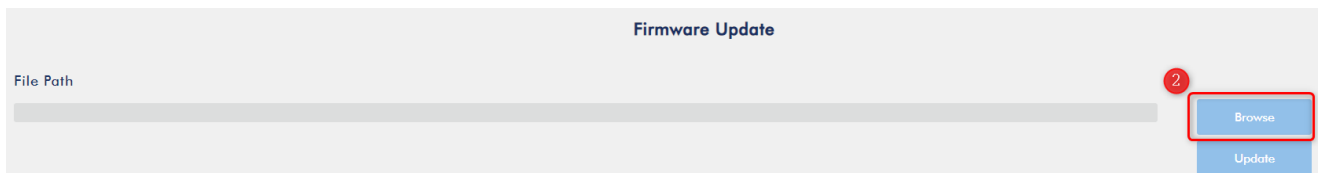
You can see the [Firmware Update] section from the NVS-31 MARK III web UI.



The screenshot shows the web UI of the NVS-31 MARK III device. At the top, there is an 'NTP Server' section with 'time.google.com' entered. Below this is the 'Firmware Update' section, which is highlighted with a red rectangular box. This section contains a 'File Path' input field, a 'Browse' button, and an 'Update' button. Below the 'Firmware Update' section is the 'Disk Information' section, which includes a 'Device' dropdown menu (currently showing 'Device0: USB (0.24G / 0.38G)'), an 'Apply' button, a 'Format Type' dropdown menu (currently showing 'NTFS'), and a 'Format' button. At the bottom is the 'Device Name Setting' section, which includes a 'Device Name' input field (currently showing 'NVS-31_MKIII') and an 'Apply' button.

3.1.3 Please click the [Browse] button

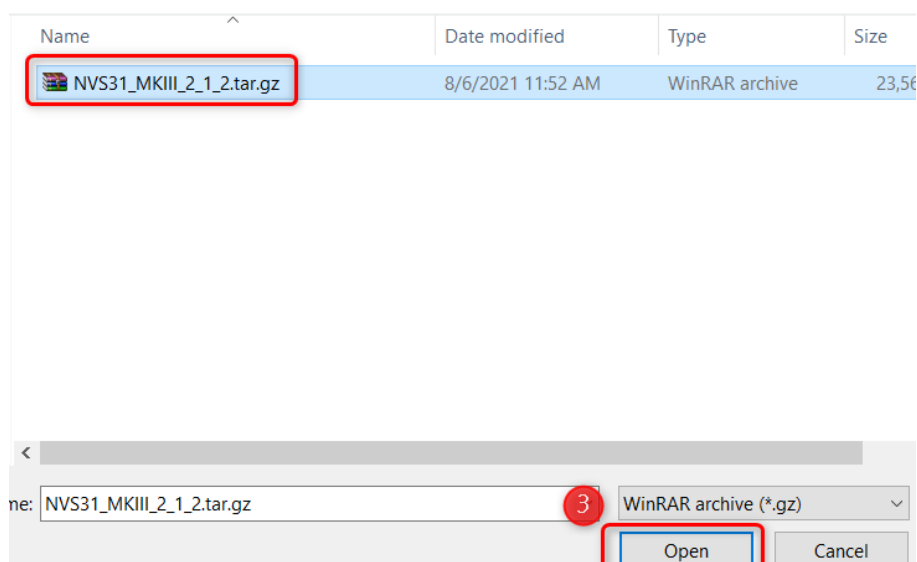
Please click the [Browse] button to select the downloaded firmware file for updating the firmware.



This is a close-up view of the 'Firmware Update' section from the previous screenshot. The 'File Path' input field is visible. To the right of the input field, there are two buttons: 'Browse' and 'Update'. The 'Browse' button is highlighted with a red rectangular box, and a red circle with the number '2' is placed next to it, indicating where the user should click.

3.1.4. Select the latest firmware file from the hard disk of your laptop

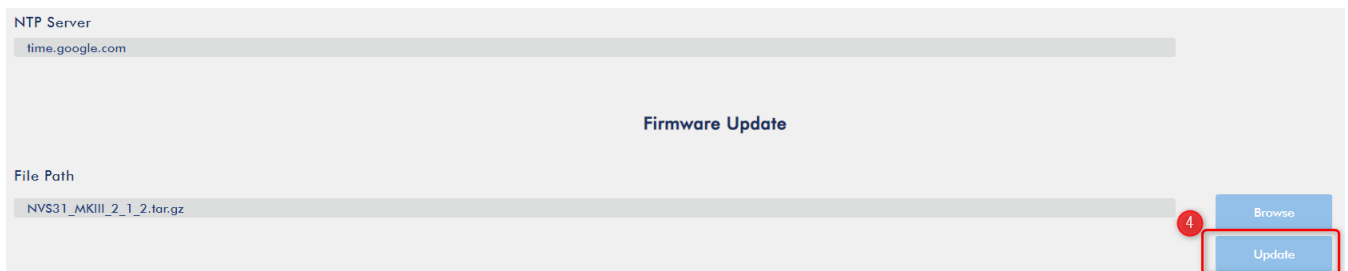
Please select the firmware file from the hard disk of your laptop.



The screenshot shows a file explorer window. At the top, there is a table with columns: 'Name', 'Date modified', 'Type', and 'Size'. The table contains one row: 'NVS31_MKIII_2_1_2.tar.gz', '8/6/2021 11:52 AM', 'WinRAR archive', and '23,56'. The file name 'NVS31_MKIII_2_1_2.tar.gz' is highlighted with a red rectangular box. Below the table, there is a search bar with the text 'NVS31_MKIII_2_1_2.tar.gz'. To the right of the search bar, there is a dropdown menu showing 'WinRAR archive (*.gz)'. Below the search bar and dropdown menu, there are two buttons: 'Open' and 'Cancel'. The 'Open' button is highlighted with a red rectangular box, and a red circle with the number '3' is placed next to it, indicating where the user should click.

3.1.5. Click the [Update] button.

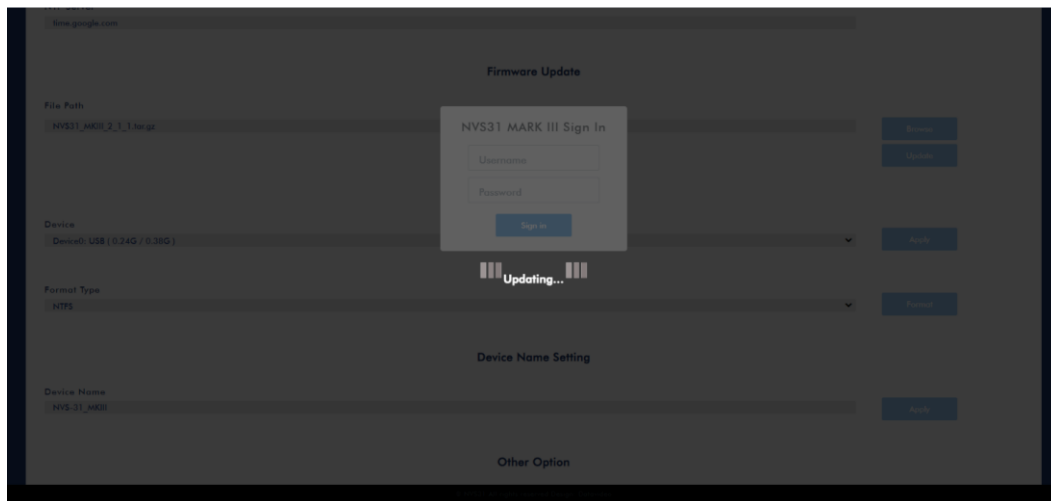
Please click the [Update] button to start the firmware update procedure.



The screenshot shows the 'Firmware Update' web interface. At the top, there is a field for 'NTP Server' with 'time.google.com' entered. Below this is a 'File Path' field containing 'NVS31_MKIII_2_1_2.tar.gz'. To the right of the file path field are two buttons: 'Browse' and 'Update'. The 'Update' button is highlighted with a red rectangular box, and a red circle with the number '4' is placed next to it, indicating the step to click the update button.

3.1.6. The firmware update procedure will be started.

The firmware update procedure will be started.



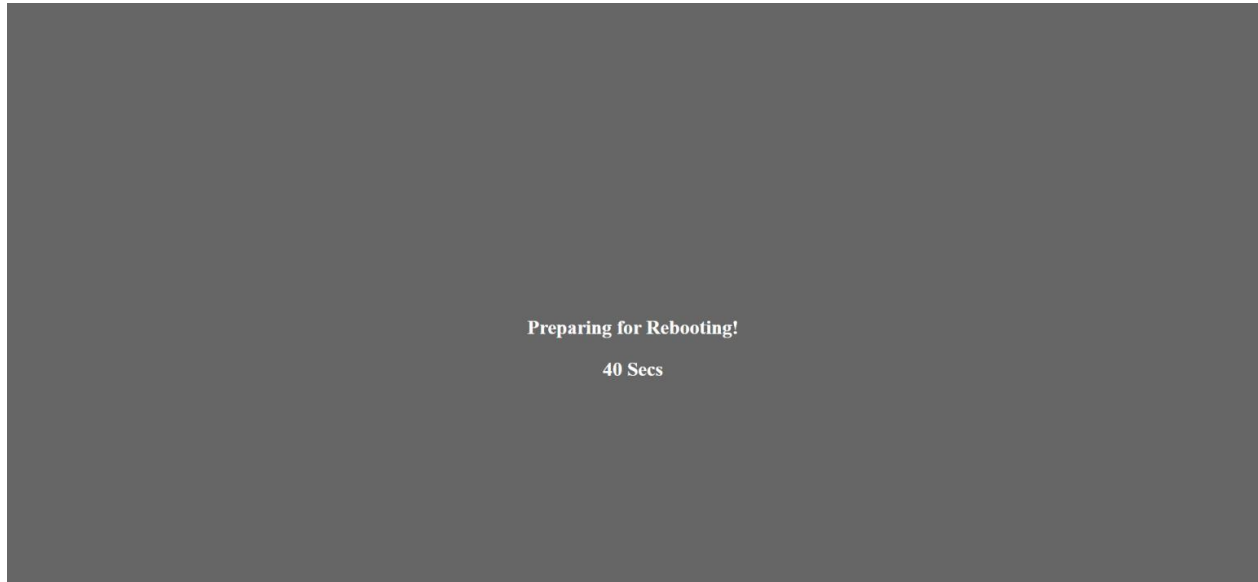
The screenshot shows the 'Firmware Update' web interface during the update process. A central dialog box titled 'NVS31 MARK III Sign In' is displayed, containing fields for 'Username' and 'Password', and a 'Sign in' button. Below the dialog box, a progress bar shows 'Updating...' with three bars. The background interface is dimmed, showing fields for 'File Path', 'Device' (set to 'Device: USB (0.24G / 0.38G)'), 'Format Type' (set to 'NTFS'), 'Device Name Setting' (set to 'NVS-31_MKIII'), and 'Other Option'.

3.1.7. Click the [confirm/OK] button.

After the firmware update procedure is done, you will see a prompted dialog box to show that the firmware update is done successfully. Please click the [confirm/OK] button.

3.1.8. The device rebooting countdown screen will show

The device rebooting countdown screen will show and then the device will be rebooted.



3.1.9. After the system rebooting is done, the whole firmware update procedure is done successfully.

After the system is rebooted, the whole firmware update procedure is done successfully.