

NETRON

Firmware Updates and Recovery

Firmware Update Methods:

NETRON (Pronounced: NET-tron) devices have a few different methods for updating the **Firmware (.NFW)** and **Web (.IMG)** files:

- **IP Address Recovery Page**
 - **NOTE:** This direct web page for uploading firmware and web image files is recommended when the device is corrupt.
- **CLU** (Windows PC only) - **Recommended Update Method**
- **Web Browser** (Mac and Windows) via IP Address
 - **NOTE:** Safari and Firefox are **not** supported. Google Chrome is the recommended browser.

File Types:

Each NETRON device utilizes **two** (2) files that need to be uploaded:

- **Device Firmware**
 - Example: NETRON_RDM10_Firmware_V3.0.0.nfw
- **Web Image**
 - Example: NETRON_RDM10_Web_V3.0.0.img

File Location:

When installing the **NETRON Central Utility (CLU)** tool, all of the most current firmware and web image files are downloaded as well.

The individual files can be found at the below location in the Windows file system:

- C:\ProgramData\Obsidian Control Systems\Netron\Firmware

IP Address Recovery Page:

To access the IP Address Recovery page and update the device, perform the below steps:

1. Open a **Web Browser**
2. Navigate to the specific device's **IP address** with the addition of **"/update.html"**
 - **Example:** 2.113.26.20/update.html
3. Click the **Choose File** button to select the necessary firmware or web image file.
4. Click **Start Upgrade**
 - **NOTE:** Do not navigate away or refresh the page during the update. The screen will refresh once the update is finished.

The screenshot shows a web browser window with the title "NETRON Firmware Update". The main heading is "Please select a firmware file". Below this, there is a "Browse:" label followed by a "Choose File" button and the text "No file chosen". To the right of this is a "Start Upgrade" button. Below the buttons, there is a message: "Please wait for device display to show progress. Do not refresh this page until completed! Reset the device to factory defaults after the firmware update." At the bottom, there is a red warning message: "Backup the Netron device before any update and restore as needed !". At the very bottom, there is an "EXIT FIRMWARE UPDATE" button.

IMPORTANT: Backup files are **NOT** compatible between V2.x and V3.x. When a device is updated to V3.x for the first time, it will be defaulted to factory settings.



Firmware Updates via NETRON Central Utility

Downloading / Installing NETRON Central Utility (CLU):

To download and install NETRON Central Utility (CLU), follow the below steps:

1. Navigate to: <https://files.obsidiancontrol.com/s/NetronCLU>
2. Download “NetronCLU V1.1.2.exe”
3. Once downloaded, locate it and **run the installer**.
4. Follow the directions and open **NETRON Central Utility**
 - **NOTE:** CLU will automatically begin scanning the network for any devices that are connected. If the device is in the same subnet, the user will be able to edit the device and perform firmware updates

Updating Firmware with NETRON Central Utility:

To update the device firmware using NETRON Central Utility (CLU), follow the below steps:

1. Open **NETRON Central Utility (CLU)**
2. When the software is finished scanning, click on the **Firmware Update** section from the left sidebar menu.
 - If unable to select the **Firmware Update** page, be sure the NETRON device and Windows PC are in the same subnet.
 - If the devices are in the same subnet, the “World Icon” on the **Devices** page will be **GREY**
 - If the devices are in a different subnet from each other, the icon will be **RED**
3. On the **Firmware Update** page, locate the device to update and click the **arrow** underneath the **Update Firmware** column.
 - **NOTE:** The device will begin updating to the most current release. When it is finished, a **checkmark** will appear next to the version number under the **Firmware** and **Web** columns.
 - **NOTE:** Multiple devices may be updated at one time using CLU, which is the recommend method for updating larger networks of NETRON devices.
 - **NOTE:** If it is necessary to downgrade the firmware to a previous version, it is possible to select the firmware files through the arrow underneath the **Recovery** column.

NETRON  								
 Devices	Device Type	Device Name	IP Address	Firmware	Web	Identify	Update Firmware	Recovery
 Presets 	NETRON NS8	NETRON NS8	2.0.0.2	V1.0.0	V1.0.0			
 Ports	NETRON NS8	NETRON NS8	2.0.0.3	V1.0.0	V1.0.0			
 Switch 	NETRON NS8 IP	NETRON NS8 IP	2.0.0.5	V1.0.0	V1.0.0			
 IP Settings	NETRON NS8 IP	NETRON NS8 IP	2.0.0.4	V1.0.0	V1.0.0			
 System 	NETRON DA2410V	DA2410V	2.42.87.10	V3.0.1	V3.0.1			
 Firmware Update	NETRON EP1D	NETRON EP1	2.142.108.19	V3.0.0	V3.0.0			
	NETRON EP1	NETRON EP1	2.82.74.47	V3.0.1	V3.0.1			
	NETRON EP1	NETRON EP1	2.111.104.44	V3.0.1	V3.0.1			
	NETRON EN6D	NETRON EN6D	2.169.147.10	V3.0.0	V3.0.0			
	NETRON EN6IP	NETRON EN6IP	2.227.3.32	V3.0.0	V3.0.0			

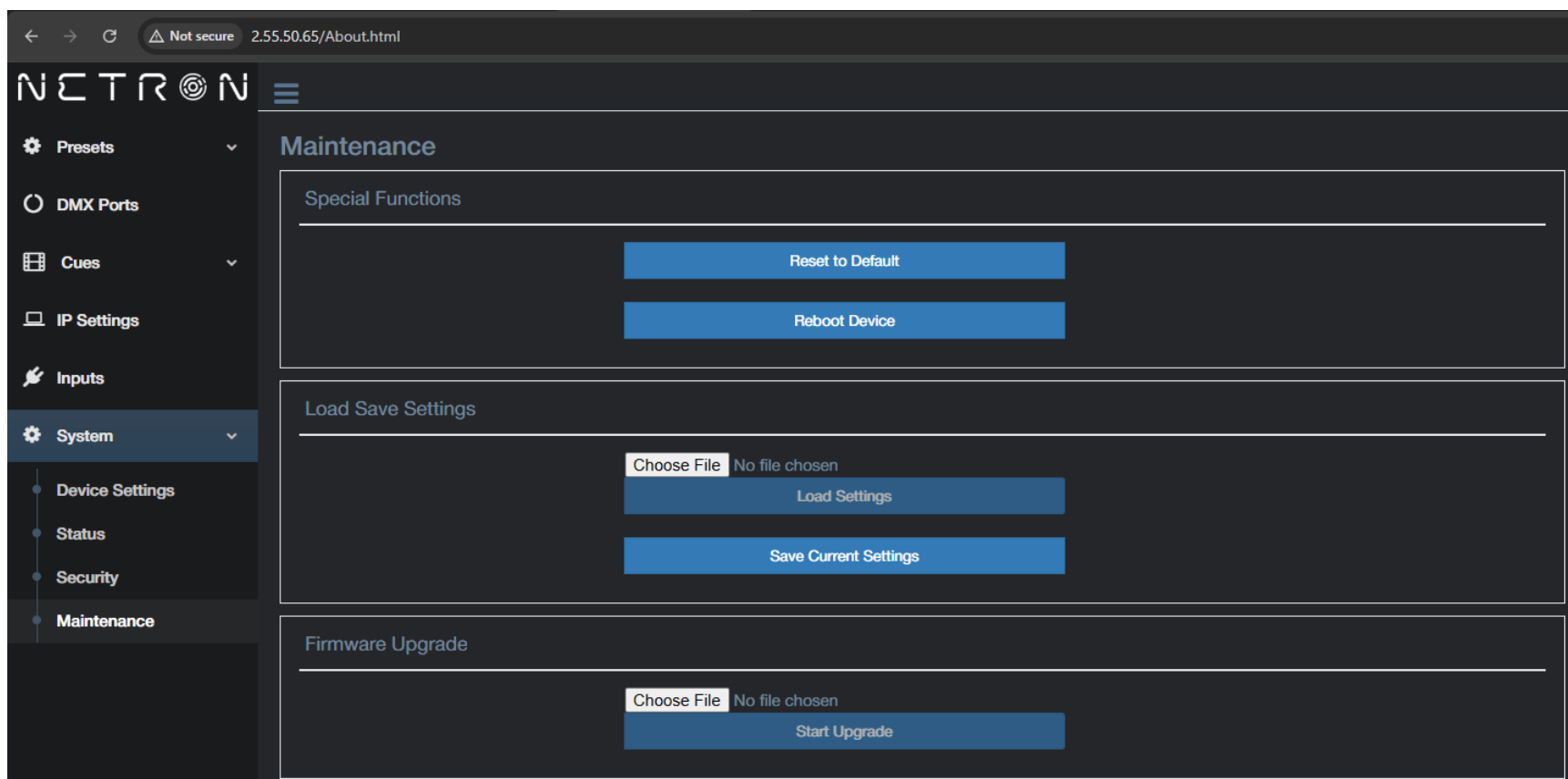


Firmware Updates via a Web Browser

Web UI Firmware Updates:

To update a device via the Web UI, follow the below steps:

1. Open a new **Web Browser** window
 - **NOTE:** Safari and Firefox are **not** supported. Google Chrome is the recommended web browser for use with NETRON devices.
2. Navigate to the **IP Address** of the NETRON device to update and press **Enter**
 - **Example:** 2.55.50.65
3. Click **System** on the left of the page to open the dropdown menu
4. Click **Maintenance**
5. Under the **Firmware Upgrade** section, select **Choose File**
 - **NOTE:** A popup window will appear to select the appropriate Firmware or Web Image file
6. Click **Start Upgrade**
 - **IMPORTANT:** Do not refresh or navigate away from the page until the page reloads and the device has finished updating.
 - **NOTE:** **Step 5** and **Step 6** must be repeated for the remaining file - either the **Firmware (.nfw)** or **Web Image (.img)** file.



Updating the Firmware of a BS10 Button Station:

To update the firmware of a BS10 Button station connected to a NETRON EN12i EtherDMX node, follow the below steps:

1. Open a new **Web Browser** window
2. Navigate to the **IP Address** of the NETRON EN12i the BS10 is connected to and press **Enter**
 - **Example:** 2.55.50.65
3. Click **System** on the left of the page to open the dropdown menu
4. Click **Maintenance**
5. Under the BS10 Firmware Upgrade section, click **Start Upgrade**
 - **NOTE:** The firmware for the BS10 is embedded with the installation of the EN12i Firmware and Web Image files. Additionally, multiple BS10 Button Stations may be updated at one time if they are connected through a BS10 Split device.



Current Release Firmware Versions by Product

	Firmware Versions	
	Firmware (.nfw)	Web (.img)
NS8	1.0.0	1.0.0
NS8 IP	1.0.0	1.0.0
EP1	3.0.1	3.0.1
EP1D	3.0.0	3.0.0
EP2	3.0.0	3.0.0
EP4	3.0.0	3.0.0
EN4	3.0.1	3.0.1
EN6D	3.0.0	3.0.0
EN6 IP	3.0.0	3.0.0
RDM10	3.0.0	3.0.0
EN12	3.0.1	3.0.1
EN12i	3.0.1	3.0.1
DA2410V	3.0.1	3.0.1