Firmware Update

1. Network Setup

Before starting the update process, ensure that the PC and the device are properly connected to the same network.

Option 1 – Direct Connection (PC ↔ Device)

Connect the PC directly to the device using an Ethernet cable.

Configure the PC network interface as follows:

- **Windows**
  - Set the Ethernet interface to **DHCP (automatic IP configuration)**.
- **Linux**
  - Enable **IPv4 Link-Local addressing** (Automatic / Link-Local).
  - Ensure the interface obtains a `169.254.x.x` address.
- **macOS**
  - Set the Ethernet interface to **Configure IPv4: Using DHCP**.

This option relies on automatic address assignment between the PC and the device.

Option 2 – Network with DHCP Server (Preferred)

Connect both the **PC** and the **device** to a network switch that provides a **DHCP server** (e.g. a router).

- Ensure the PC network interface is configured to **DHCP**.
- Verify that both the PC and the device receive valid IP addresses.

This is the recommended setup, as it provides the most reliable network configuration.

2. Boot Firmware Update

2.1 Access the Upgrader Page

1. Turn on the device and open a web browser on the PC.
2. Access the upgrader page at as soon as possible

```
http://dmix.local:8198
```

3. The upgrader page should be displayed.

Firmware Upgrade

Please choose a file:

[Browse...] No file selected.

2.2 Upload Boot Firmware

1. On the upgrader page, select the following file:

```
01-boot-0.4.0c.dmixfw
```

2. Start the upload/update process.

Important notes:

- There is **no progress or status feedback** while the update is running.
- Wait until the process finishes.

At the end of the process, the system will indicate either **success** or **error**.

Successful Update

If the update is successful, a log similar to the following will be displayed:

Firmware Upgrade

Please choose a file:

[Browse...] No file selected.

Archive: /var/updtmp/update-z9p087.zip
inflating: BOOT.BIN
inflating: boot.scr
inflating: button-monitor_470_arm64.deb
inflating: Image
inflating: system.dtb
inflating: uEnv.txt
inflating: upgrade.sh
inflating: boot-4.0c.zip.elf
grep: /sys/firmware/devicetree/base/device_id: binary file matches
OK: Root filesystem has 4064MB free (minimum: 150MB)
Validating installer integrity...
Updating boot
Boot updated successfully!
Installing packages...
No packages to install

Upgrade complete! Please reboot the device

Verifying payload checksum...
Checksum verified. Unpacking payload...
Executing update...

Proceed to the next step.

Error Handling

If an error is reported:

- **DO NOT power off or disconnect the device.**
- Retry the update process.
- Repeat until it completes successfully.

Interrupting power during this stage may leave the device inaccessible.

3. Installer Firmware Update

1. Access the upgrader page again:

`http://dmix.local:8198`

2. Select the following file:

`02-installer-0.4.0c.dmixfw`

3. Start the update process.

Important notes:

- As before, there is **no progress or status feedback** during the update.
- Wait until the process finishes.
- This packet will make the device to loose connectivity.
- You should get:

Successful Update

The update is considered **successful** when:

- **All I/O LEDs on the device blink green and red**.

This LED pattern confirms that the firmware installation was completed correctly.
It takes between 1 and 2 minutes.
Only after that, you should reboot the unit.