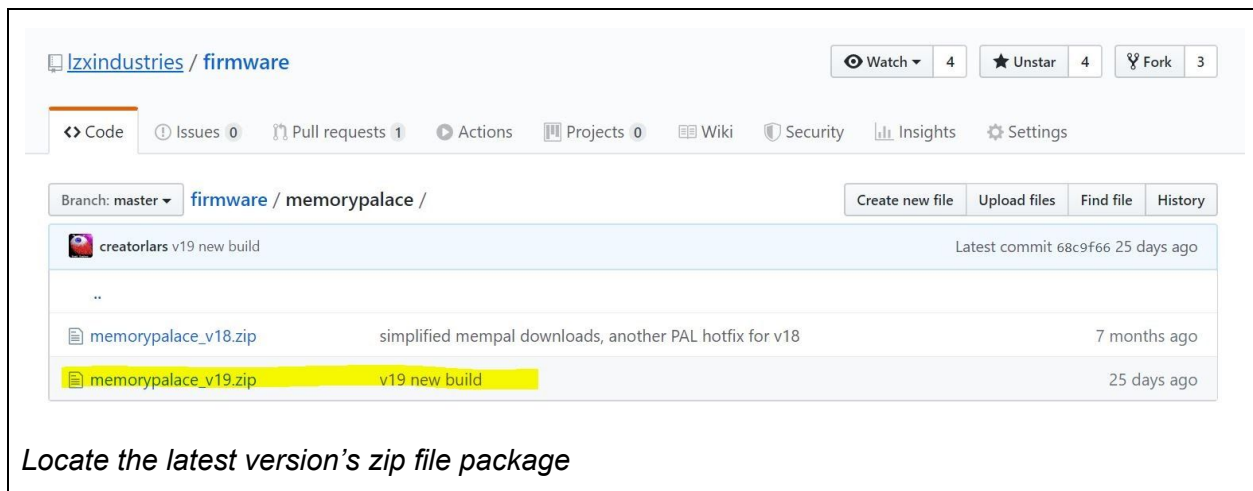# Memory Palace Firmware Update Guide

LZX Industries

Step 1. Download New Firmware
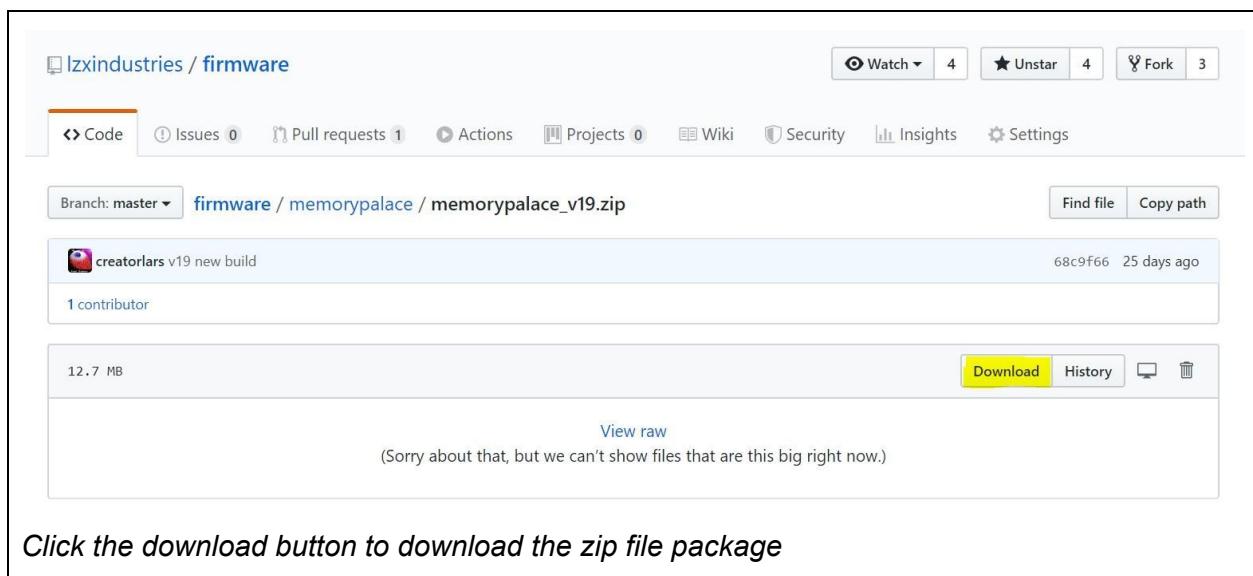
Navigate to our firmware repository for Memory Palace and download the latest version:
https://github.com/lzxindustries/firmware/tree/master/memorypalace

Locate the latest version's zip file package

Click the download button to download the zip file package

Step 2. Access MicroSD Card

There are two ways to access Memory Palace's MicroSD card.

First Method: Memory Palace USB Access Mode

Connect Memory Palace to your computer using a USB A to USB Mini B cable.

Your Computer's USB Host Port	*USB A to USB Mini B Cable*	*Memory Palace Front USB Port*

Once connected, you will need to enable USB access via Memory Palace's menu.

Second menu page of Memory Palace V18 firmware,

Navigate to the second menu page, select **Enable USB Access.** Your computer should now recognize the Memory Palace MicroSD card as a mounted drive.

Troubleshooting: If you are experiencing difficulty, ensure you are connecting Memory Palace directly to your computer and not via a USB hub.

Second Method: Your Computer's SD Card Reader

The second method is to remove the MicroSD card from it's socket and copy the files over using your computer's MicroSD card socket or a MicroSD to SD card adapter.

MicroSD card located on the bottom corner, near the power connectors

Unpower and uninstall your Memory Palace, then remove the MicroSD card from its socket.

Note: Memory Palaces built before 2020 will have a hinged MicroSD card connector. To open this connector, push firmly on its lid, and then slide your finger upwards (towards the top of the module.) This will unlock the connector, and you can then open the hinge outwards to extract the MicroSD card.

You may now mount the MicroSD card using an SD Card reader or MicroSD to SD card adapter.

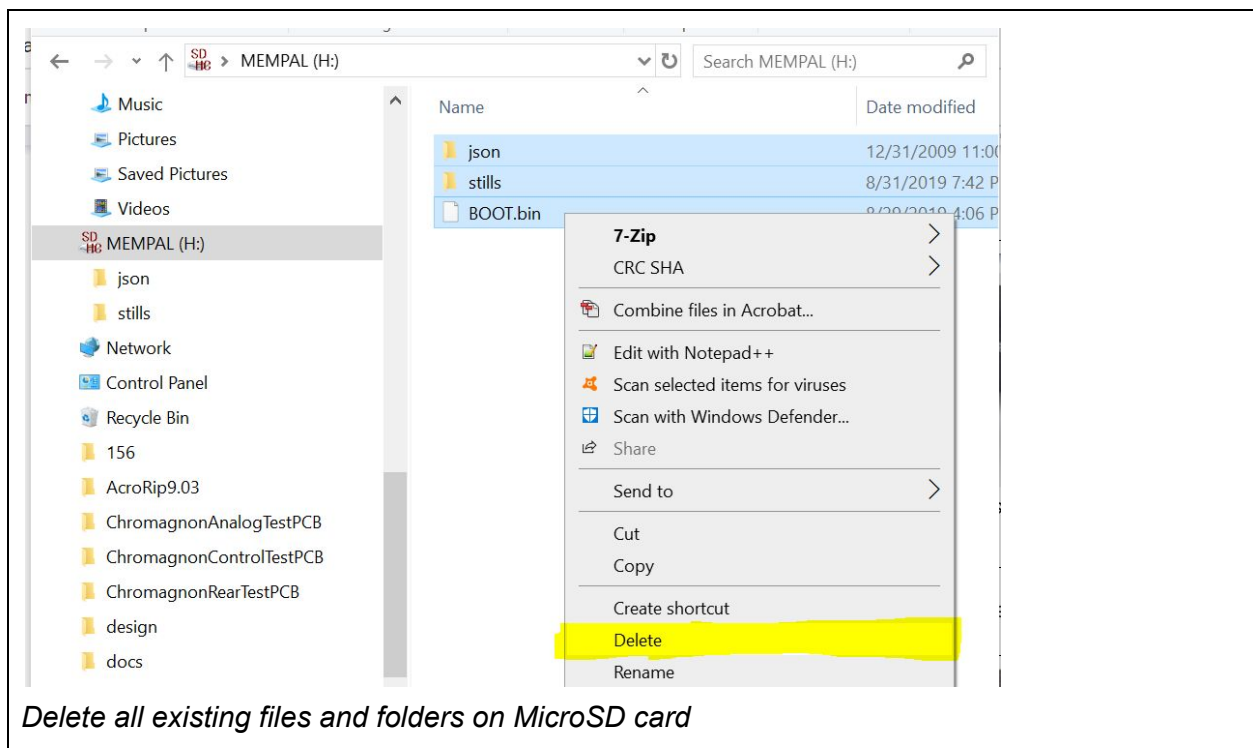|	
MicroSD to SD card adapter, for computers which have SD card readers	*MicroSD to USB adapter for any computer*
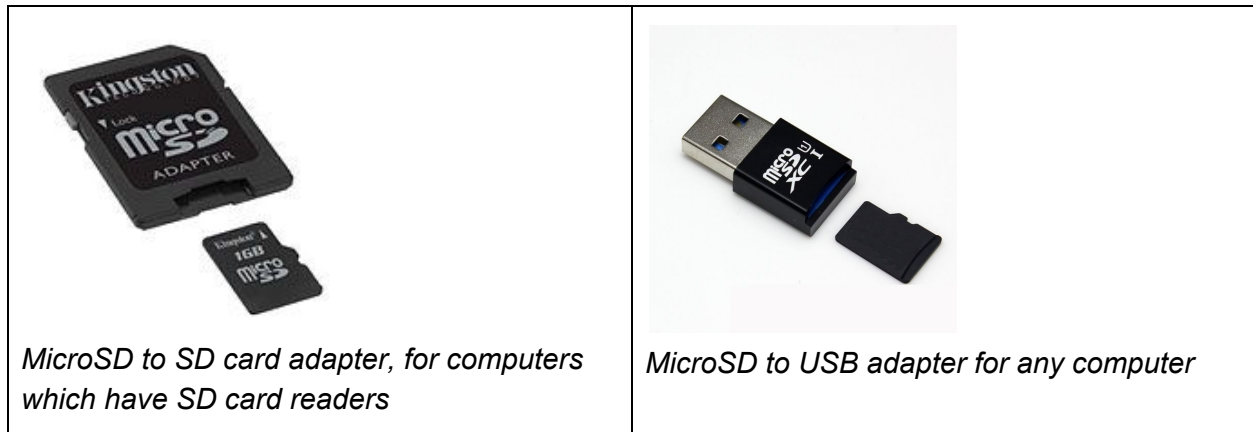
# Step 3. Copy New Firmware to SD Card

With access to the MicroSD card secured, we recommend you delete all files on the drive before upgrading. If you've created any still image files, back them up now.

Delete all existing files and folders on MicroSD card

Next, unzip the contents of the firmware update package downloaded in **Step 1** and copy all files and folders over to the MicroSD card.

Copying new firmware update files to MicroSD card
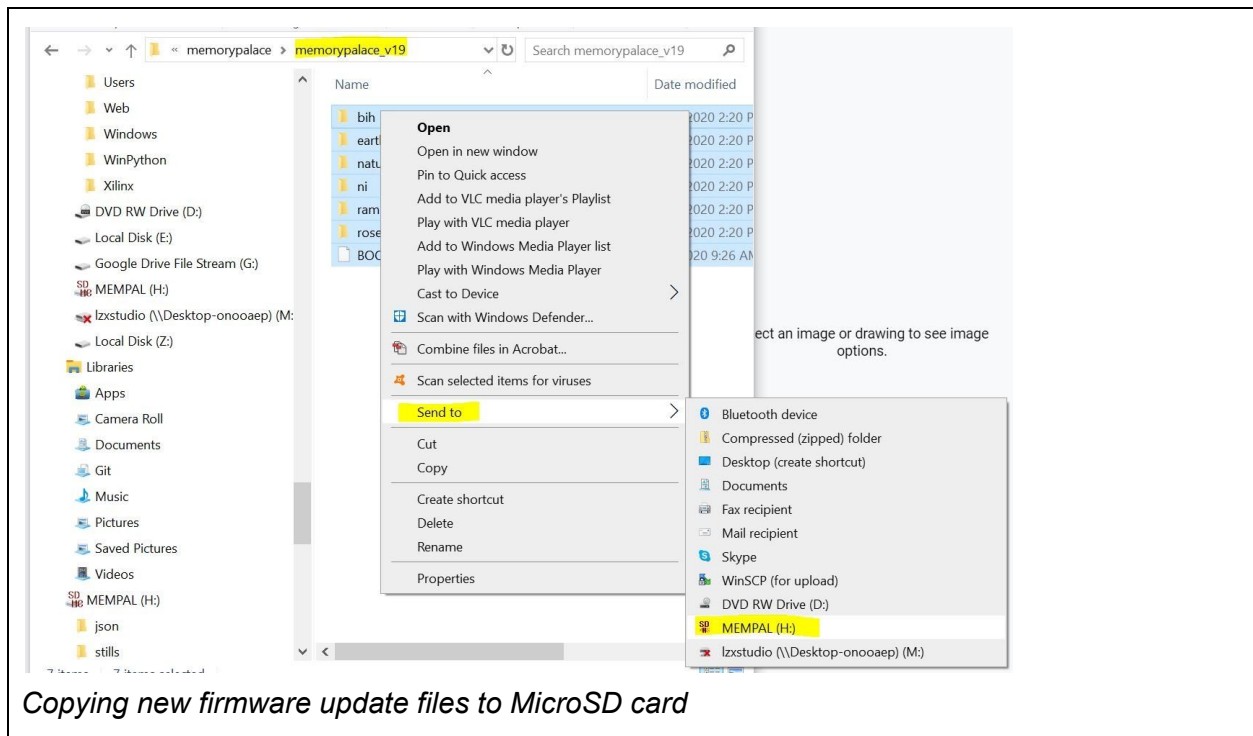
Step 4. Update Firmware

If you are accessing files over USB, disable USB access and shut down your system.

If you removed your MicroSD card, reinstall it in your Memory Palace now.

Now, power on your system and select **Update Firmware** from the second page of the menu. Wait a couple minutes for your system to restart.

Wait for your system to restart after pressing the yellow button
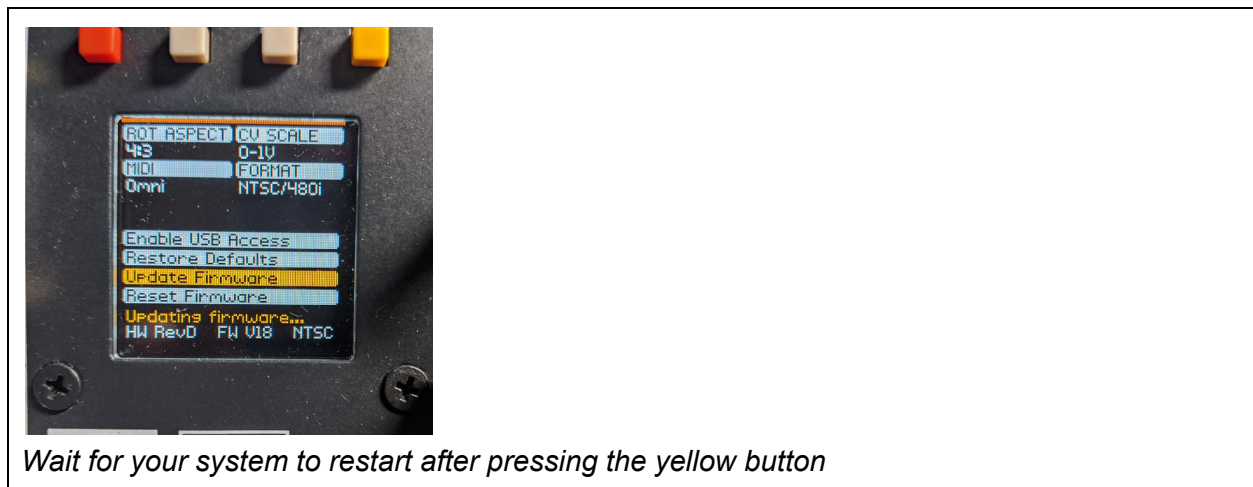
After restarting, power your system entirely down and then back on again if firmware does not load correctly.

If you're upgrading from V19 (2020 production units), you're done! Otherwise, you must complete some extra steps as outlined below.

Upgrading From 2019 Production Units (V18 Firmware)

If you are upgrading from 2019 production units shipped with V18 firmware, there's an extra step, and it's tricky! Please follow the steps below and read the directions carefully.

1. The first type you boot your unit after updating, you will see a message stating that internal memory must be initialized.
2. Press the **Yellow** and **Orange** buttons simultaneously to confirm that you would like to format the internal memory.
3. After a minute or two, your system will restart. It will show the same message a second time. Ignore that and power down your system entirely.
4. Unmount your Memory Palace from your EuroRack case, but leave power cables connected, so that you are able to power up your module while accessing the rear.
5. Hold down the **SD Boot** button on the rear of your Memory Palace.
6. Turn on power, continuing to hold the **SD Boot** button.
7. Your system should boot into the main menu now. Yay!
8. Release the **SD Boot** button, and power down your system. Reinstall the module in your EuroRack case.
9. Power up your system as usual. Memory Palace should boot into the main menu now without showing the message to reformat internal memory.

Congrats! You're done.

If you experience any issues following these directions or updating your unit, please contact us at support@lzxindustries.net.