



# Getting Started with Palette 3

This guide will take you through preliminary steps for your printer, setting up Palette 3 with your printer and running your first calibration print.

Written By: Mosaic Support



# INTRODUCTION

This guide encompasses steps to take before printing with Palette, running the first print on Palette 3, and how to further tune the printer profile. Each step here will provide a link to a more in-depth guide on how to complete each task.

In this guide you will learn:

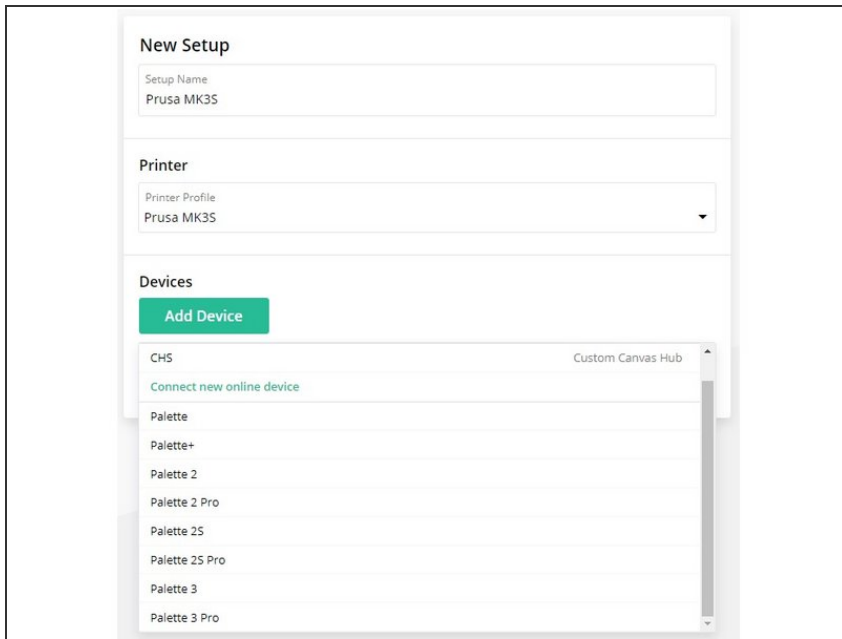
- Items to check on your printer before setting up Palette
- How to setup Palette 3 in Canvas and slice for multi-material
- Update Palette 3 firmware
- Palette 3 and printer setup
- Introduction to Splice Tuning for materials
- How to complete the first print in accessory or connected mode
- Further information on how calibration works and how to tune the printer profile



## Step 1 — Calibrate Your Printer



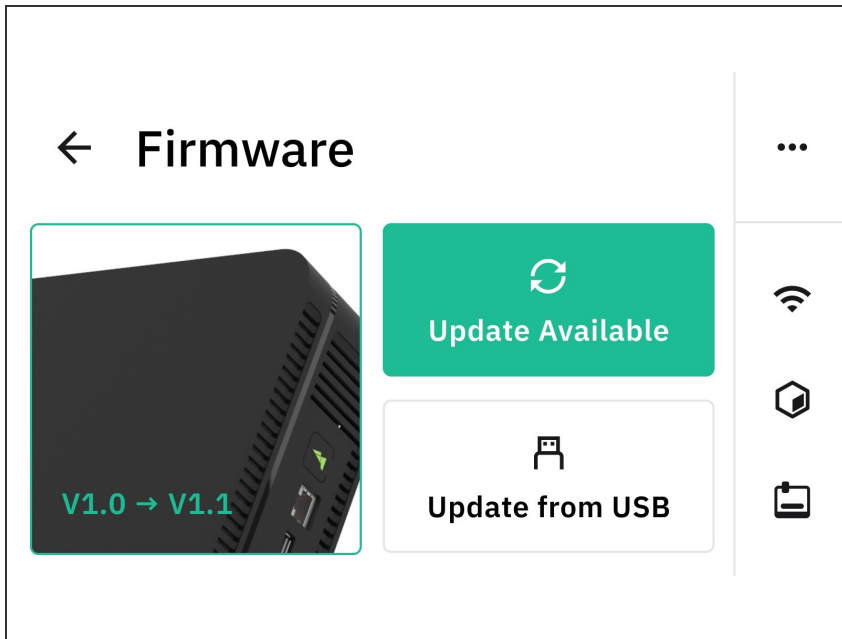
- Please make sure [your extruder is calibrated](#) and [your bed is levelled](#) before adding Palette. Please also make sure the filament you are working with isn't too brittle, as this can lead to breakages within Palette during your print.

## Step 2 — Setups and Slicing in Canvas



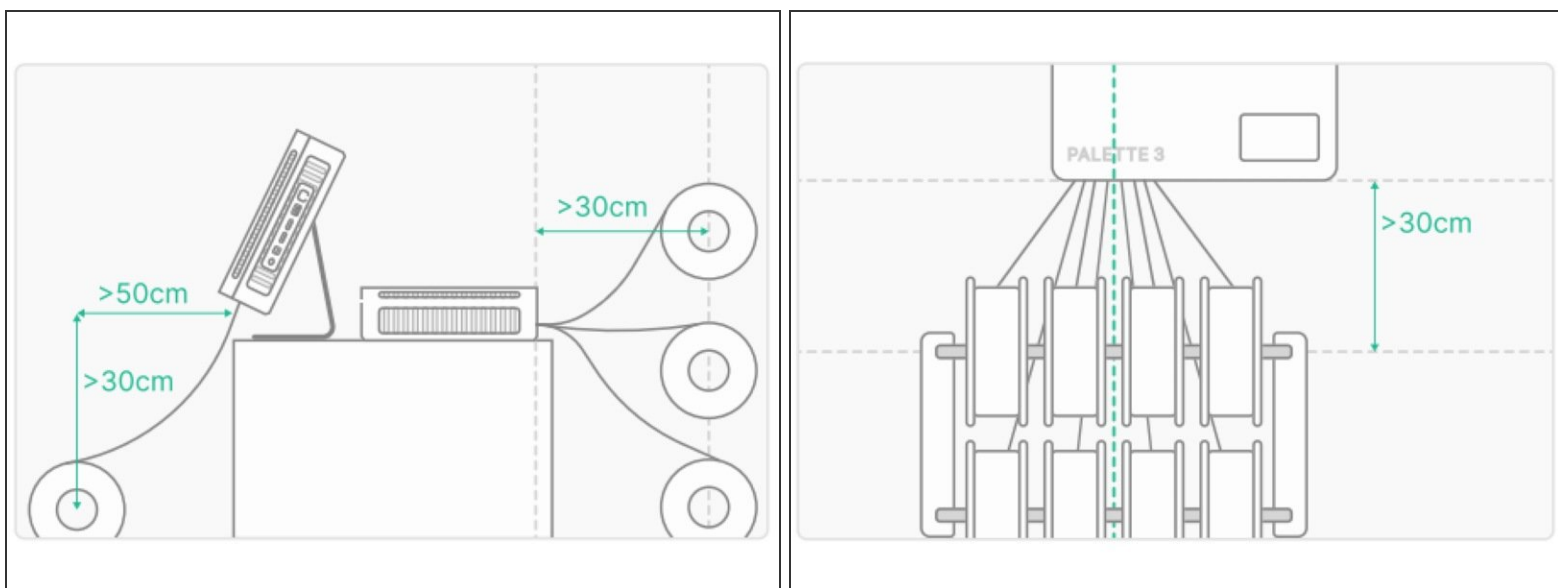
- Get started with [Canvas](#) by creating an account.
- Once you're logged in, create a new printer profile and setup, and add Palette 3 to your setup following the steps [here](#). These instructions will include how to connect Palette 3 to the Internet and Canvas, and how to color and slice.
-  If you are looking to print with a USB connection between Palette and the printer, select **connected mode**. If you prefer to print the files from external storage on your printer or another method, select **accessory mode**.
-  If you have already connected Palette 3 to Canvas please select the *Palette 3* under *My Online Devices* at the top of the list.

## Step 3 — Update Firmware



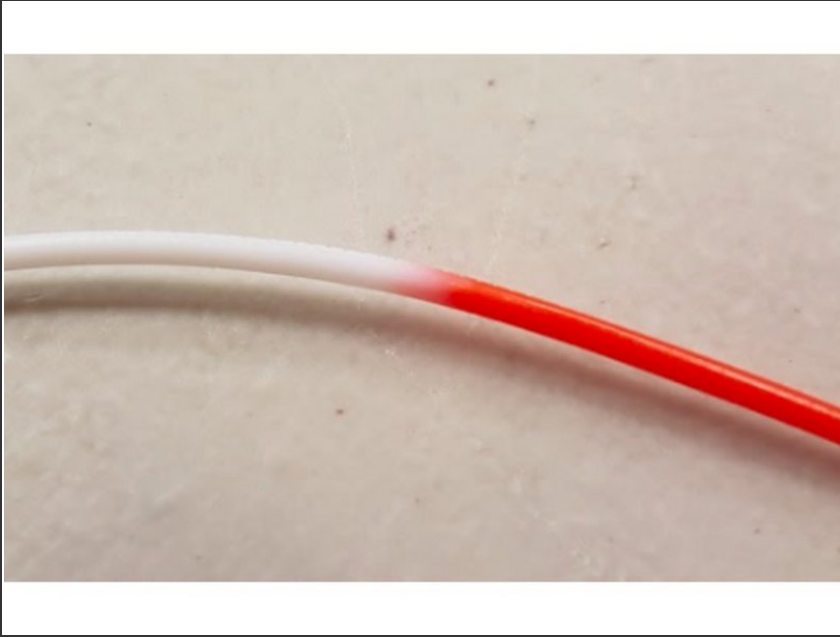
- Always ensure that you're using the most recent version of [firmware](#) to ensure that you're using the most up-to-date features and improvements.
- Update firmware on Palette 3 following the steps [here](#).

## Step 4 — Set Up Your Palette and 3D Printer



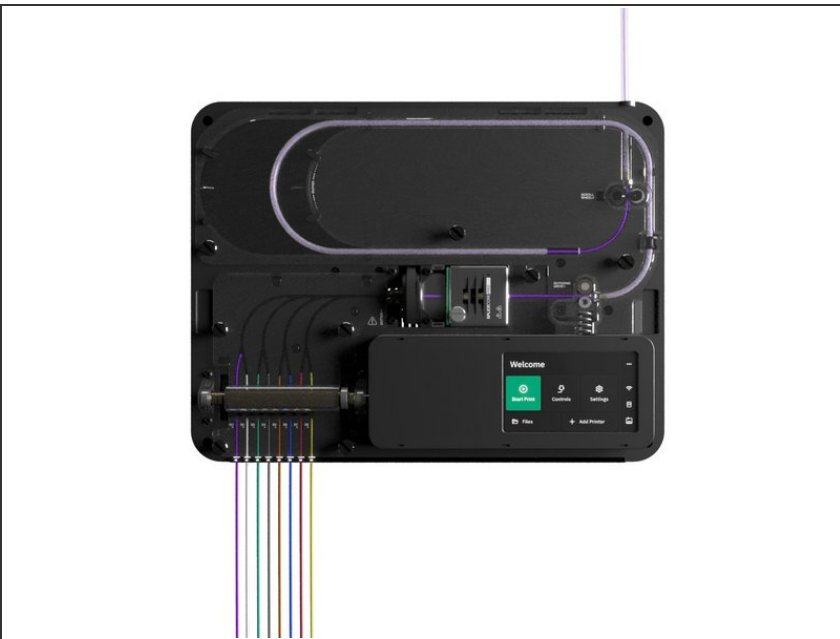
- When you turn on Palette for the first time it will guide you through the initial setup. Make sure that the following have been completed:
  - Palette is positioned close to your printer.
  - Palette is secure on its stand, custom mount, or a stable base/foundation.
  - PTFE is fastened into Palette 3 and the Teflon tube clip and can move freely around print area without causing any sharp bends in the filament path. You may also use a [printable custom tube clip](#).
  - Power supply is firmly connected to Palette and the wall outlet.
  - Filament is untangled and spools are positioned to feed filament easily.
  - [Please review this article for more detailed instructions and videos on how to physically set up Palette with your printer.](#)

## Step 5 — Splice Tuning



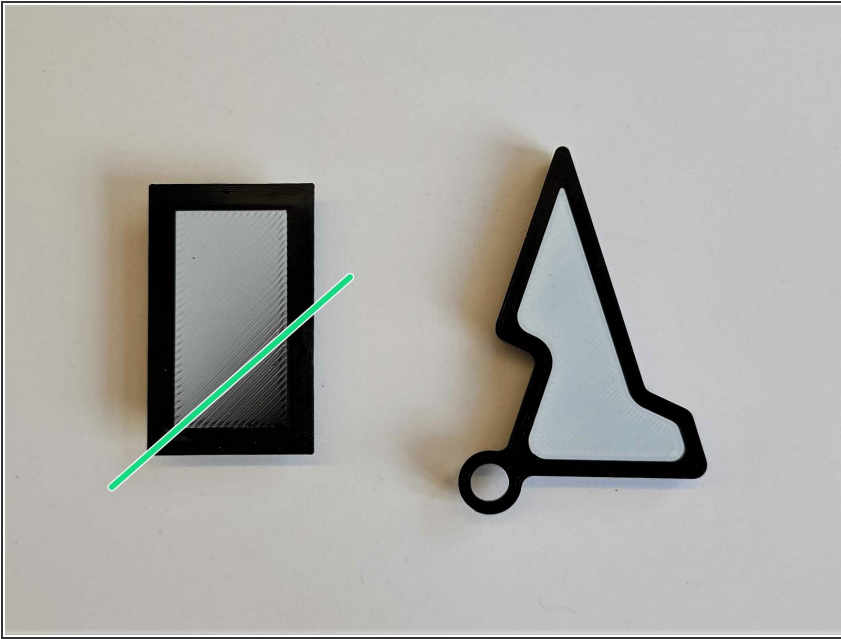
- Palette splices together different materials and feeds them into 3D printers to create objects with multiple colors and materials.
- Palette uses a combination of heat, compression, and cooling to join these filaments together depending on the materials' properties.
- i We recommend using filament that is within +/- 0.03 mm spec of 1.75 mm to create the best quality splices.

## Step 6 — Start Your Calibration Print



- For the calibration print, we recommend using PLA.
- Follow the instructions here for [accessory mode](#) printing.
- Follow the instructions here for [connected mode](#) printing.

## Step 7 — Printing and Next Steps



- After completing the first print, the next set of [multi-material prints](#) completed with this same printer profile will be further tuned by selecting to [save or ignore the print](#) based on calibration data.
- Example multi-material models for profile tuning can be items like coasters, small animals or figurines.
- ① [Click here to learn more about Palette's calibration system in depth.](#)

If you have any questions, please don't hesitate to contact us at [support@mosaicmfg.com](mailto:support@mosaicmfg.com).