

# PALETTE 3

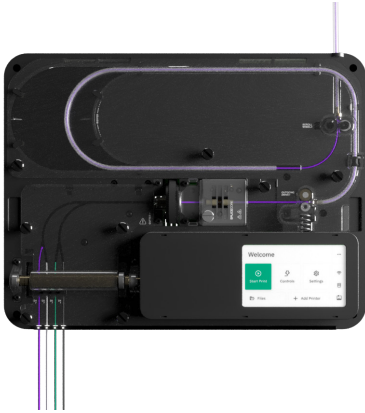
## Product Sheet

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Simple, multi-material 3D Printing

# PALETTE 3

## Key Features



Up to 4 different filaments in a single print job



Improved Splice Core for even faster splicing than Palette 2



Easily connects to most widely available 3D printers,<sup>1</sup>

- ✓ Starting at **\$599 USD**. Shipping begins **July 2021<sub>2</sub>**
- ✓ **Control remotely** to start and monitor prints from anywhere
- ✓ **Automated** runout detection and spool changeover
- ✓ Built-in **Canvas Hub** for improved connectivity
- ✓ Cloud based print management with **Canvas** software integration
- ✓ New UI and touch screen for unparalleled ease of use
- ✓ Durable PC -ABS and construction
- ✓ Splices **25% faster** than Palette 2



1. Consult Mosaic Manufacturing's website for a full list of compatible 3D Printers. List subject to change.

2. Subject to availability, some restrictions may apply.

# PALETTE 3

## Specification Sheet

<b>Recommended for</b>	Hobbyists
<b>MSRP (USD)</b>	\$599 USD
<b>Number of Inputs</b>	4
<b>Filament Compatibility</b>	1.75 ±0.03mm PLA, PETG, TPU, ABS, PVA, HIPS Shore hardness of 95A or harder
<b>Splicing Technology</b>	3rd generation Splice Core (P3-SC)
<b>Splicing Speed</b>	Up to 25% faster than Palette 2
<b>Filament Runout Detection</b>	Yes
<b>Built-in Canvas Hub Functionality</b>	Yes
<b>Software Compatibility</b>	Canvas
<b>Browser Compatibility</b>	Chrome, Firefox, Safari
<b>Internet Connection</b>	Required for Canvas usage and firmware updates
<b>Control Interface</b>	4" Touch Screen Canvas (via Web browser)
<b>Data Interface</b>	Canvas (via WiFi)
<b>IO Ports</b>	USB-A (2x) USB-B (1x)
<b>WiFi</b>	Yes (2.4Ghz, 802. 11 b/g/n) <sub>1</sub>
<b>Controllers</b>	ARM Cortex M4 Processor & Compute Module: -Quad-core 1.4GHz ARM Cortex-A53 Processor -1GB LPDDR2 SDRAM -8GB eMMC Flash Memory
<b>Power</b>	12V / 4A
<b>Product Dimensions (cm)</b>	30.9 × 23.5 × 7.4 cm
<b>Product Weight (kg)</b>	3.1 kg
<b>Warranty</b>	12 months or 25,000 splices
<b>UPC Code</b>	850226000830

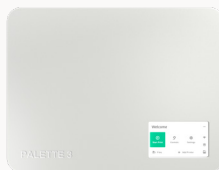
# PALETTE 3

## Comparison Sheet

Palette 2S



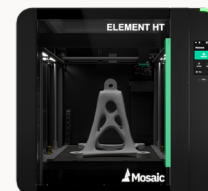
Palette 3



Palette 3 Pro



Palette X



<b>Number of Materials</b>	4	4	8	8
<b>Connectivity</b>	Canvas Hub Required	Canvas Hub Integrated		
<b>Warranty</b>	1 Year	1 Year	2 Year	2 Year
<b>Ethernet</b>	No	No	Yes	N/A
<b>Structural Material</b>	PC-ABS, White	PC-ABS, White	PC-ABS, Black, Aluminum Splice Core	All Aluminum and Hardened Steel, Black
<b>Interface</b>	3.2" Color Screen	4" Color Screen	4" Color Screen	Varies
<b>Splice Tubes Included</b>	3	3	5	N/A
<b>Spare Parts</b>	Basic	Basic	Basic + Extra	N/A
<b>Drive Technology</b>	Independent Drive Motor	Mosaic Rotary Selector System		
<b>Filament Buffer</b>	Open-filament Loop	Constrained Filament Loop		N/A
<b>Speed (cut-cut time)<sub>2</sub></b>	43 seconds	32 seconds	29 seconds	15 seconds
<b>Filament Diameter</b>	1.75mm			
<b>Compatibility</b>	Popular open printers such as Creality, Prusa, Artillery, Craftbot, Makerbot, Flashforge, Ultimaker <sub>3</sub> and Lulzbot <sub>3</sub>			Mosaic Element and Array 3D Printers only <sub>4</sub>
<b>Compatible Materials</b>	Up to 250°C	Up to 250°C	Up to 250°C	Up to 500°C

1. Although WiFi is featured, offline modes are also available for both Palette 3 and Palette 3 Pro models

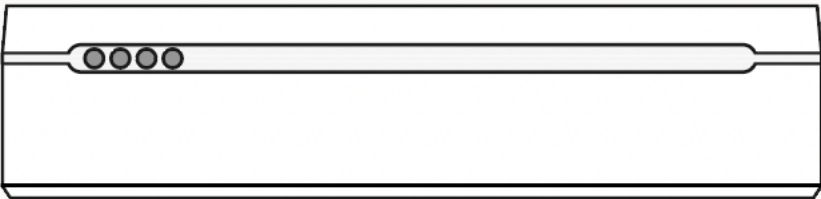
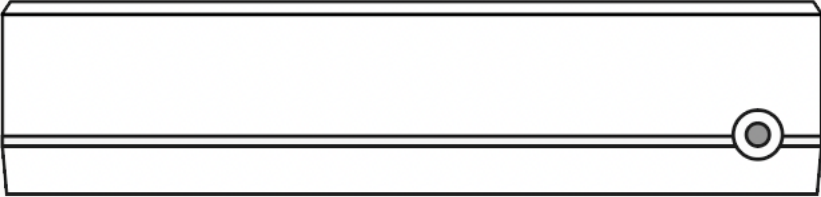
2. Cut-cut time is determined using 8cm segments and (0,0,0) splice tuning with Mosaic PLA. Larger segments and different splice tuning will affect cut-cut times.

3. Adaptor required for select 2.85mm printer models

4. Palette X is not available as a stand alone unit and is only found within our Element, Element HT and Array 3D printers

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## Product Diagrams



**Note:** All diagrams and technical specifications are approximate and subject to change.



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