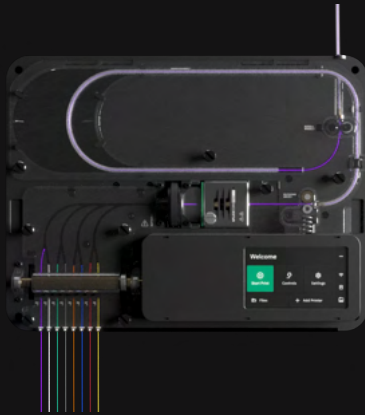# PALETTE 3 PRO
Product Sheet

Simple, multi-material 3D Printing

PALETTE 3 PRO
Key Features

**Up to 8 different filaments in a single print job**

Improved, aluminum Splice Core, 10% faster than Palette 3

Easily connects to most widely available 3D printers[1]

- ✓ Starting at **$799 USD**. Shipping begins **July 2021**[2]
- ✓ Control **remotely** to start and monitor prints from anywhere
- ✓ Fully **automated** runout detection and spool changeover
- ✓ Built-in **Canvas Hub** for improved connectivity
- ✓ Cloud based print managment with **Canvas software integration**
- ✓ New UI and touch screen for unparalleled ease of use
- ✓ Durable PC-ABS and Aluminum[3] construction.
- ✓ Splices **10% faster** than Palette 3 and rated for **2x** as many lifetime splices.
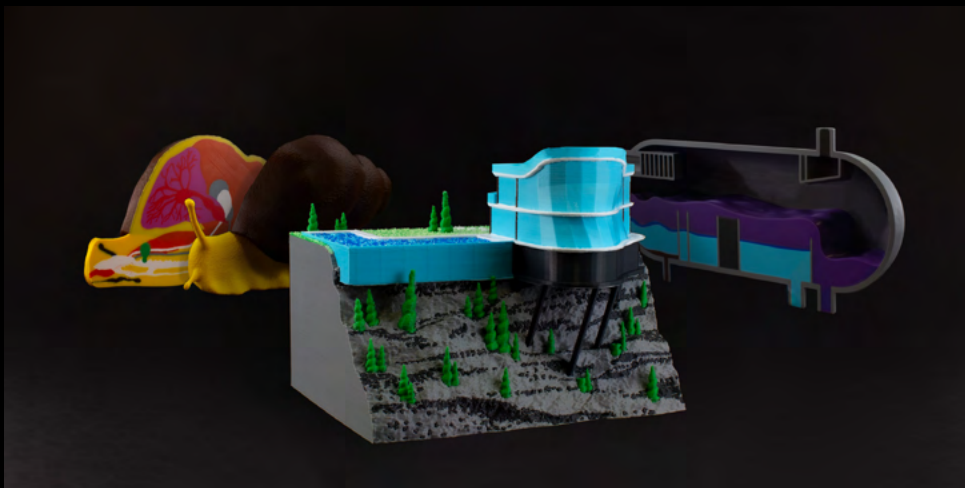
1. Consult the Mosaic Manufacturing website for a full list of compatable 3D Printers. List subject to change.
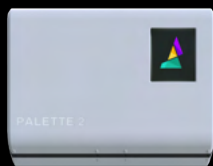2. Subject to availability, some restrictions may apply.

PALETTE 3 PRO
Specification Sheet

Recommended for	Professionals, Businesses, Hobbyists
MSRP (USD)	$799 USD
Number of Inputs	8
Filament Compatibility	1.75 ±0.03mm PLA, PETG, TPU, ABS, PVA, HIPS Shore hardness of 95A or harder
Splicing Technology	3rd generation Splice Core PRO (P3-SCP)
Splicing Speed	Up to 10% faster than Palette 3, 35% faster than Palette 2
Filament Runout Detection	Yes
Built-in Canvas Hub Functionality	Yes
Software Compatibility	Canvas
Browser Compatibility	Chrome, Firefox, Safari
Internet Connection	Required for Canvas usage and firmware updates
Control Interface	4" Touch Screen Canvas (via Web browser)
Data Interface	Canvas (via WiFi / Ethernet)
IO Ports	USB-A (2x) USB-B (1x) Ethernet (1x)
WiFi	Yes (2.4Ghz, 802. 11 b/g/n)[1]
Controllers	ARM Cortex M4 Processor & Computrer M4 Processor & Compute Module: -Quad-core 1.4GHz ARM Cortex-A53 Processor -1GB LPDDR2 SDRAM -8GB eMMC Flash Memory
Power	12V / 4A
Product Dimensions (cm)	30.9 × 23.5 × 7.4 cm
Product Weight (kg)	3.2 kg
Warranty	24 months or 50,000 splices
UPC Code	850226000847

PALETTE 3 PRO
Comparison Sheet

	Palette 2S	Palette 3	Palette 3 Pro	Palette X
Number of Materials	4	4	8	8
Connectivity	Canvas Hub Required	Canvas Hub Integrated		
Warranty	1 Year	1 Year	2 Year	2 Year
Ethernet	No	No	Yes	N/A
Structural Material	PC-ABS, White	PC-ABS, White	PC-ABS, Black, Aluminum Splice Core	All Aluminum and Hardened Steel, Black
Interface	3.4" Color Screen	4" Color Screen	4" Color Screen	Varies
Splice Tubes Included	3	3	5	N/A
Spare Parts	Basic	Basic	Basic + Extra	N/A
Drive Technology	Independent Drive Motor	Mosaic Rotary Selector System		
Filament Buffer	Open-filament Loop	Constrained Filament Loop		N/A
Speed (cut-cut time)$_2$	42 seconds	32 seconds	28 seconds	15 seconds
Filament Diameter	1.75mm			
Compatability	Popular open printers such as Creality, Prusa, Artillery, Craftbot, Maker-bot, Flashforge, Ultimaker$_3$ and Lulzbot$_3$			Mosaic Element and Array 3D Printers only$_4$
Compatible Materials	Up to 250°C	Up to 250°C	Up to 250°C	Up to 500°C
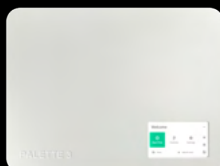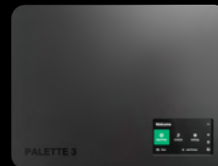
1. Although WiFi is featured, offline modes are available for both Palette 3 and Palette 3 Pro models
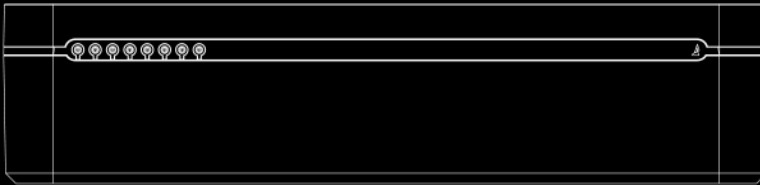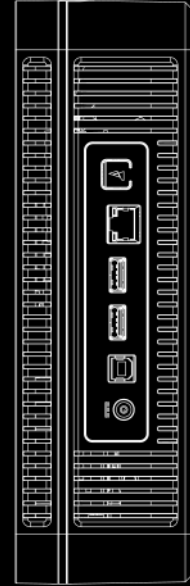2. Cut-cut time is determined using 8cm segments, larger segments will take longer times.
3. Adaptor required for select 2.85mm printer models
4. Palette X is not available as a stand alone unit and is only found within our Element, Element HT and Array 3D printers

PALETTE 3 PRO
Product Diagrams

PALETTE 3

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

Mosaic