



RAISE3D E2

Precise, Reliable, and Affordable



An easy-to-use, durable desktop 3D printer ready to increase precision standards, scale production, and add a powerful new manufacturing resource.

IDEX (Independent Dual Extruders)

Dual Prints Simultaneously



Mirror Mode

Produce 3D models and their inverse simultaneously, increasing productivity and reducing print time.



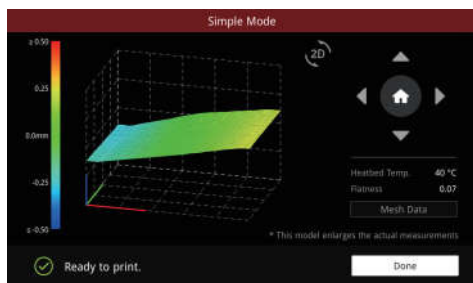
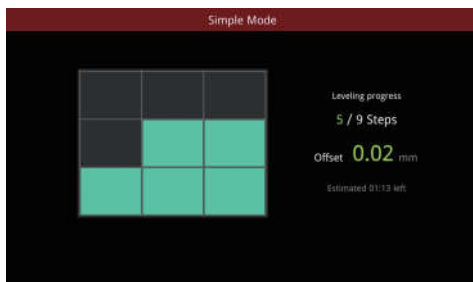
Duplication Mode



Use both extruders in synchronized printing, doubling production capabilities.

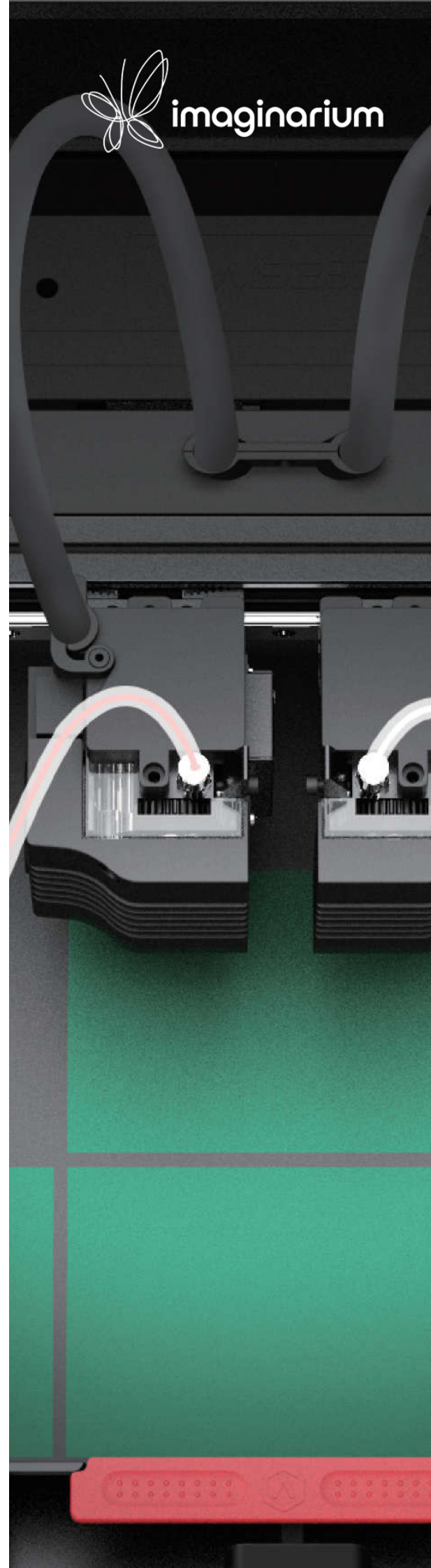
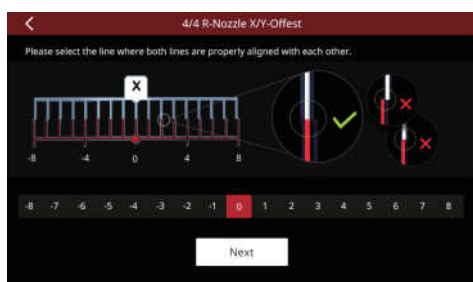
Auto Bed Leveling

Confirms the printing platform is level whenever preparing to print. ABL maintains the distance between the print nozzles and bed, creating a uniform build area. Improves bed adhesion and print quality by allowing the extruder to adjust to even minor surface contour changes.



Industry First Video-Assisted Offset Calibration System

Spend less time calibrating and more time printing.





Safety Features

Opening a door is detected automatically, immediately pausing the print and keeping users safe.



Power Saving Button

Turn off the RaiseTouch screen and LED lights to save energy and print throughout the night.



Flexible Build Plate

Easily remove prints from the flexible build plate while minimizing potential print damage to quickly return to printing.

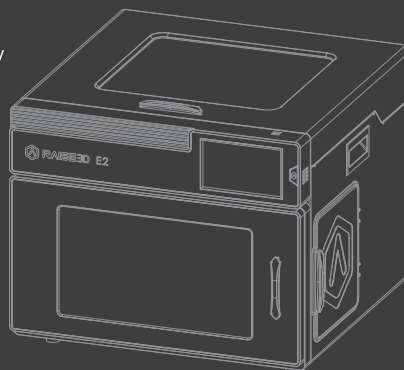


Variety Of Material Compatibility

Shortened feed paths greatly enhances the printing capability for soft materials like TPU.

More Features

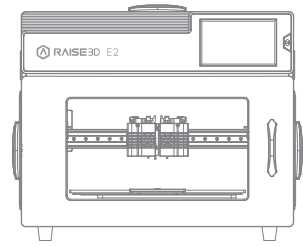
- Power Loss Recovery
- Filament Run-out Sensor
- Remote Video Monitoring



- 7-inch Touch Screen
- Remote User Interface
- HEPA Air Filtration

- Capable of Printing a Variety of Filaments up to 300°C

Technical Specifications



ITEM	E2	
CONSTRUCTION	Build Volume (W×D×H)	
	Single Extruder Print	Dual Extruder Print
	13×9.4×9.4 inch / 330×240×240 mm	11.6×9.4×9.4 inch / 295×240×240 mm
	Machine Size (W×D×H)	
	23.9×23.5×18.3 inch / 607×596×465 mm	
ELECTRICAL	Power Supply Input	100-240 V AC, 50/60 Hz 230 V @ 2 A
	Power Supply Output	24 V DC, 350 W
PRINTER	Print Technology	FFF
	Motion System	Independent Dual Extruders
	Filament Diameter	1.75 mm
	XYZ Step Size	0.78125, 0.78125, 0.078125 micron
	Print Head Travel Speed	30 - 150 mm/s
	Build Plate	Flexible Steel Plate with Buildtak
	Max Build Plate Temperature	110 °C
	Heated Bed Material	Silicone
	Build Plate Leveling	Mesh-leveling with Flatness Detection
	Supported Materials	PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ NYLON/ PETG/ ASA/ PP/ PVA/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill
	Layer Height	0.02 - 0.25 mm
	Nozzle Diameter	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)
	Hot End	V3P (V3 hotend with PTFE version)
	Max Nozzle Temperature	300 °C
	Connectivity	Wi-Fi, LAN, USB port, Live camera
	Noise Emission (Acoustic)	< 50 dB(A) when building
	Operating Ambient Temperature	15 - 30 °C, 10 - 90% RH non-condensing
	Storage Temperature	-25 to 55 °C, 10 - 90% RH non-condensing
	Technical Certifications	CB, CE, FCC, RoHS
	Filter	HEPA filter with activated charcoal
SOFTWARE	Slicing Software	ideaMaker
	Supported File Types	STL/ OBJ/ 3MF
	Supported OS	Windows/ macOS/ Linux
	Machine Code Type	GCODE
PRINTER CONTROLLER	User Interface	7-inch Touch Screen
	Network	Wi-Fi, Ethernet
	Resume Print after Power Outage	Firmware recording, no need for battery installation.
	Screen Resolution	1024*600
	Motion Controller	Atmel ARM Cortex-M4 120MHz FPU
	Logic Controller	NXP ARM Cortex-A9 Quad 1 GHz
	Memory	1 GB
	Onboard Flash	8 GB
	OS	Embedded Linux
	Ports	USB 2.0*2, Ethernet*1

