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.
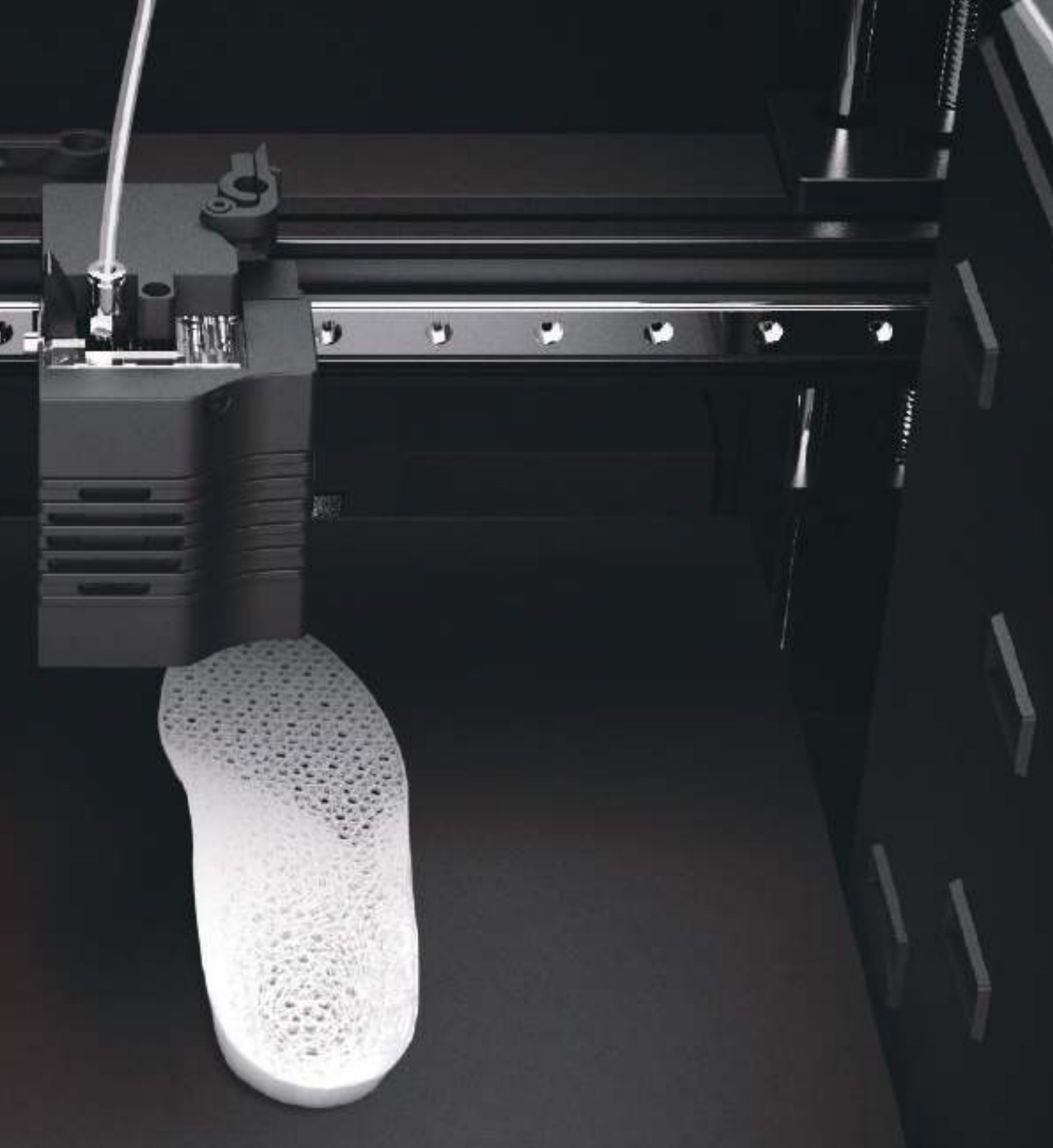
IDEX (Independent Dual Extruders)

Dual Prints Simultaneously

Mirror Mode

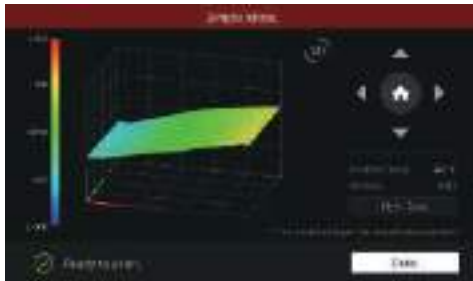Produce 3D models and their inverse simultaneously, increasing productivity and reducing print time.

Duplication Mode

Use both extruders in synchronized printing, doubling production capabilities.
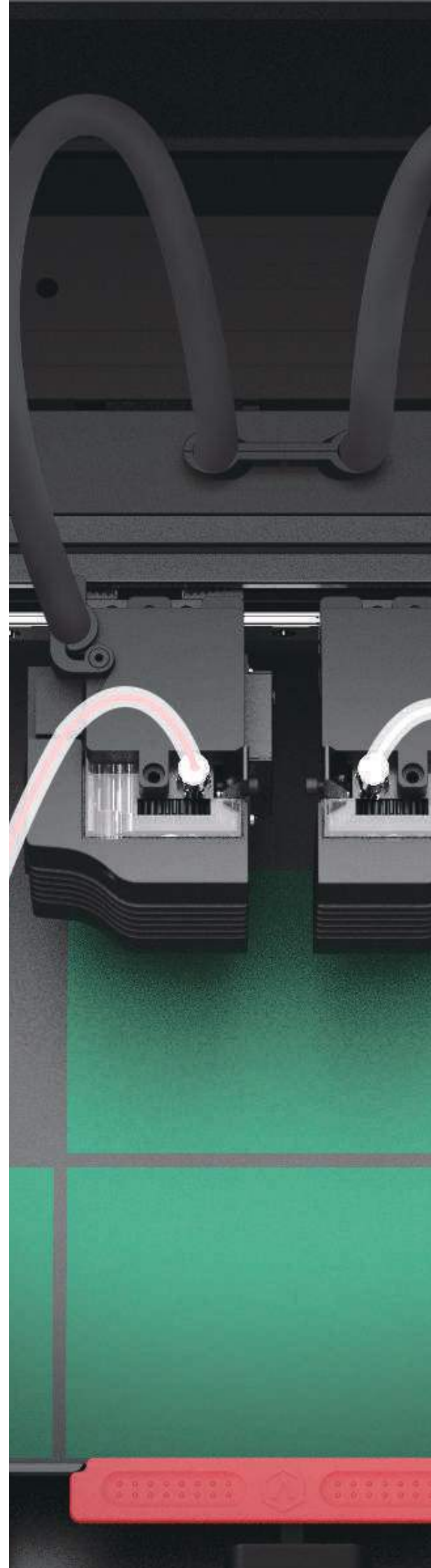
Auto Bed Leveling

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.
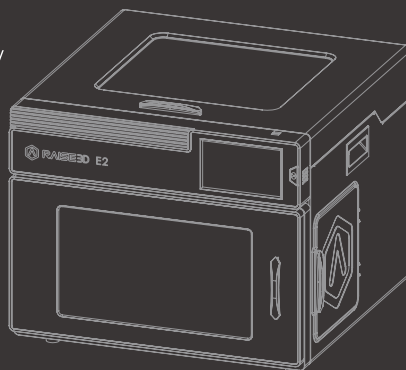
Variety Of Material Compatibility

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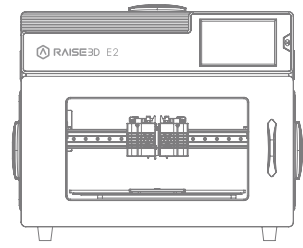
More Features

- 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	

About Raise3D

3 offices around the world, and a sales network covering **173** countries and regions.

▼ Sales Partner ⦿ Raise3D Office

Raise3D has become a global leader in manufacturing precise and reliable 3D printers, with headquarters in the U.S.A., China, and the Netherlands.

Raise3D printers have enjoyed an award winning legacy including: "**3D Printer of the Year**" award from international tech authority Make magazine (along with the annual cover). All3DP, the largest global 3D printing evaluation organization, awarded Raise3D "**Best 3D Printer**" and "**Best Large Format 3D Printer**".

In addition to designing and manufacturing 3D printers used by many of the world's biggest companies, Raise3D also develops powerful slicing software (ideaMaker), an enterprise level cloud-based print management platform (RaiseCloud), and professional consulting services and technologies that result in a one-stop flexible manufacturing solution for our customers.

Raise3D US

Raise3D China

Raise3D Netherlands

RAISE3D

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