E2 Technical Specifications

Raise3D E2 is a desktop 3D printer with independent dual extruders (also known as IDEX). IDEX gives Raise3D E2 the ability to perform more advanced functions, such as Mirror Mode and Duplication Mode, making this printer ideal for professional 3D printing. Its unique extruder gear design enables it to use flexible 3D printing materials, such as TPU, more reliably and with better results.

Printer	Raise3D E2		
Build Volume (W × D × H)	Single Extruder Print		Dual Extruder Print
	330 × 240 × 240 mm (13 × 9.4 × 9.4 inch)		295 × 240 × 240 mm (11.6 × 9.4 × 9.4 inch)
Machine Size (W × D × H)	607 × 596 × 465 mm (23.9 × 23.5 × 18.3 inch)		
Weight	Net Weight	Gross Weight (Carton Only)	Gross Weight (Carton with Pallet)
	35.1 kg (77.4 lbs)	43.8 kg (96.6 lbs)	51.3 kg (113.1 lbs)
Electrical	Power Supply Input	100-240 V AC, 50/ 60 Hz 230 V @ 2 A	
	Power Supply Output	24 V DC, 350 W	
General	Print Technology	Fused Filament Fabrication (FFF)	
	Print Head System	IDEX 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℃	
	Heated Bed Material	Silicone	
	Build Plate Leveling	Mesh-leveling with Flatness Detection	
	Filament Run-out Sensor	Available	
	Layer Height	0.02-0.25 mm	
	Nozzle Diameter	0.4 mm (Default), 0.6/ 0.8 mm (Available)	
	Hot End	V3P	
	Max Nozzle Temperature	300℃	
	Connectivity	Wi-Fi, LAN, USB port, Live camera	
	Noise Emission (Acoustic)	< 50 dB (A) when building	
	Operating Ambient Temperature	15-30℃, 10-90% RH non-condensing	
	Storage Temperature	-25℃ to +55℃, 10-90% RH non-condensing	
	Filter	HEPA filter with activated charcoal	
	Technical Certifications	CB, CE, FCC, RoHS, RCM	
Material	Material Type	PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ NYLON/ PETG/ ASA/ PP/ PVA/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill	
	Third Party Material	Supported by Raise3D OFP (Open Filament Program)*	
Software	Slicing Software	ideaMaker	
	Supported File Types	STL/ OBJ/ 3MF/ OLTP	
	Supported OS	Windows/ macOS/ Linux	
	Machine Code Type	GCODE	
Printer Controller	User Interface	7-inch Touch Screen	
	Network	Wi-Fi, Ethernet	
	Power Loss Recovery	Available	
	Screen Resolution	1024 × 600	
	Motion Controller	Atmel ARM Cortex-M4 120 MHz FPU	
	Logic Controller	NXP ARM Cortex-A9 Quad 1 GHz	
	Memory	1 GB	
	Onboard Flash	16 GB	
	OS	Embedded Linux	
	Ports	USB 2.0 × 2, Ethernet × 1	

*For detailed information and slicing profiles of the materials supported by Raise3D OFP, please visit *https://www.ideamaker.io/.*

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