Raise3D E3 Technical Specifications

Printer	Raise3D E3		
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)
	33.3 kg (73.4 lbs)	42 kg (92.6 lbs)	49.5 kg (109.1 lbs)

General	Print Technology	Fused Filament Fabrication (FFF)
	Print Head System	IDEX Independent Dual Extruders
	Filament Diameter	1.75 mm
	Max Printing Speed	200 mm/s
	Max Volumeric Speed	16 mm^3/s
	Build Plate	Flexible Double-sided PEI Build Plate (Default), Flexible Steel Plate with BuildTak (Available)
	Build Plate Leveling	Mesh-leveling with Flatness Detection
	Heated Bed Material	Silicone
	Max Build Plate Temperature	110℃
	Nozzle Diameter	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)
	Max Nozzle Temperature	330℃
	Layer Height	The E3 is compatible with 0.2, 0.4, 0.6, 0.8 and 1.0 mm nozzles, and the layer height can vary between 0.1-0.5 mm. To achieve stable print results, when using 0.4 mm nozzles, we recommend using a layer height between 0.1-0.3 mm.
	Surface Roughness Ra	< 2 μm (Hyper Speed PLA Pro Filament, Ironing enabled)
	Filament Run-out Sensor	Available
	Filter	HEPA Filter with Activated Charcoal
	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
Electrical	Power Supply Input	100-240 V AC, 50/ 60 Hz 230 V @ 2 A
	Power Supply Output	24V DC, 350 W
Material	Raise3D Material	Hyper Core: PPA CF/ PPA GF/ ABS CF Hyper Speed: PLA/ ABS/ PETG CF/ PET CF/ PLA Pro Industrial: PPA CF/ PPA GF/ PET CF/ PET GF/ PETG ESD/ PET Support/ PPA Support/ PPS CF Premium: PLA/ ABS/ ASA/ PETG/ PC/ TPU-95A/ PVA+
	Flexible and Elastic Material	When equipped with the Flexible Filament Auxiliary Feeder, the E3 is compatible with TPE (TPU, TPE-A, TPE-S, TPE foam filaments, etc.), Shore (A) hardness between 95A and 80A (e.g. TPU-95A, 90A, 80A), as well as all Shore (D) hardness filaments.
	Third Party Material	Supported by Raise3D OMP (Open Material Program)*
Software	Slicing Software	ideaMaker
	Supported File Types	STL/ OBJ/ 3MF/ OLTP/ STEP/ STP/ IGES/ IGS
	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 120MHz FPU
	Logic Controller	NXP ARM Cortex-A55 Quad 2 GHz
	Memory	2 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 OMP, please visit https://www.ideamaker.io/.