Raise3D E2CF Technical Specifications

Raise3D E2CF is an IDEX 3D printer optimized for 3D printing carbon fiber reinforced filaments. Carbon fiber reinforced filaments have the advantages of low density, high strength, corrosion resistance, static resistance, and high temperature resistance, making E2CF a potential for a wide range of applications within industries that require a considerable strength-to-weight ratio in their solutions.

Printer	Raise3D E2CF			
Build Volume (W × D × H)	Single Extruder Prir	nt	Dual Extruder Print	
	330 × 240 × 240 mm (13 × 9.4	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 (Raise3D Filament Dry Box not included)	Net Weight	Gross Weight (Carton Only)		Gross Weight (Carton with Pallet)
	36.6 kg (80.7 lbs)	43.1 kg (95.1 lbs)		50.6 kg (111.6 lbs)
Electrical	Power Supply Input Power Supply Output	100-240 V AC, 50/ 60 Hz 230 V @ 2 A 24 V DC, 350 W		
General	Print Technology Print Head System Filament Diameter XYZ Step Size Print Head Travel Speed Build Plate Max Build Plate Temperature Heated Bed Material Build Plate Leveling Filament Run-out Sensor Layer Height Nozzle Diameter Hot End Max Nozzle Temperature Connectivity Noise Emission (Acoustic) Operating Ambient Temperature Storage Temperature	Fused Filament Fabrication (FFF) IDEX Independent Dual Extruders 1.75 mm 0.78125, 0.78125, 0.078125 micron 15-150 mm/s Flexible Steel Plate with BuildTak 110°C Silicone Mesh-leveling with Flatness Detection Available 0.1-0.5 mm 0.4 mm (Default), 0.6/ 0.8 mm (Available) V4P 330°C Wi-Fi, LAN, USB Port, Live Camera < 50 dB (A) When Building 15-30°C, 10-90% RH, non-condensing -25°C to +55°C, 10-90% RH, non-condensing HEPA Filter with Activated Charcoal		
Material	Material Type Third Party Material	PLA/ ABS/ ASA/ PETG/ PC/ PA12 CF/ PA12 CF+/ PET CF/ PET GF/ PPA CF/ PPA GF/ PETG ESD/ PVA+/ PA12 CF Support/ PET Support/ PPA Support Supported by Raise3D OFP (Open Filament Program)*		
Software	Slicing Software Supported File Types Supported OS Machine Code Type	ideaMaker STL/ OBJ/ 3MF/ OLTP Windows/ macOS/ Linux GCODE		
Printer Controller	User Interface Network Power Loss Recovery Screen Resolution Motion Controller Logic Controller Memory Onboard Flash OS Ports	7-inch Touch Screen Wi-Fi, Ethernet Available 1024 × 600 Atmel ARM Cortex-M4 120 MHz FPU NXP ARM Cortex-A9 Quad 1 GHz 1 GB 16 GB Embedded Linux USB 2.0 × 2, Ethernet × 1		

 $[*] For detailed information and slicing profiles of the materials supported by Raise 3D OFP, please visit $$ \underline{https://www.ideamaker.io/.} $$$

