



RAISE3D



PIONEERING FLEXIBLE MANUFACTURING

WWW.RAISE3D.COM

About Us

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.



Pro2 Series
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E2
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RaiseAcademy
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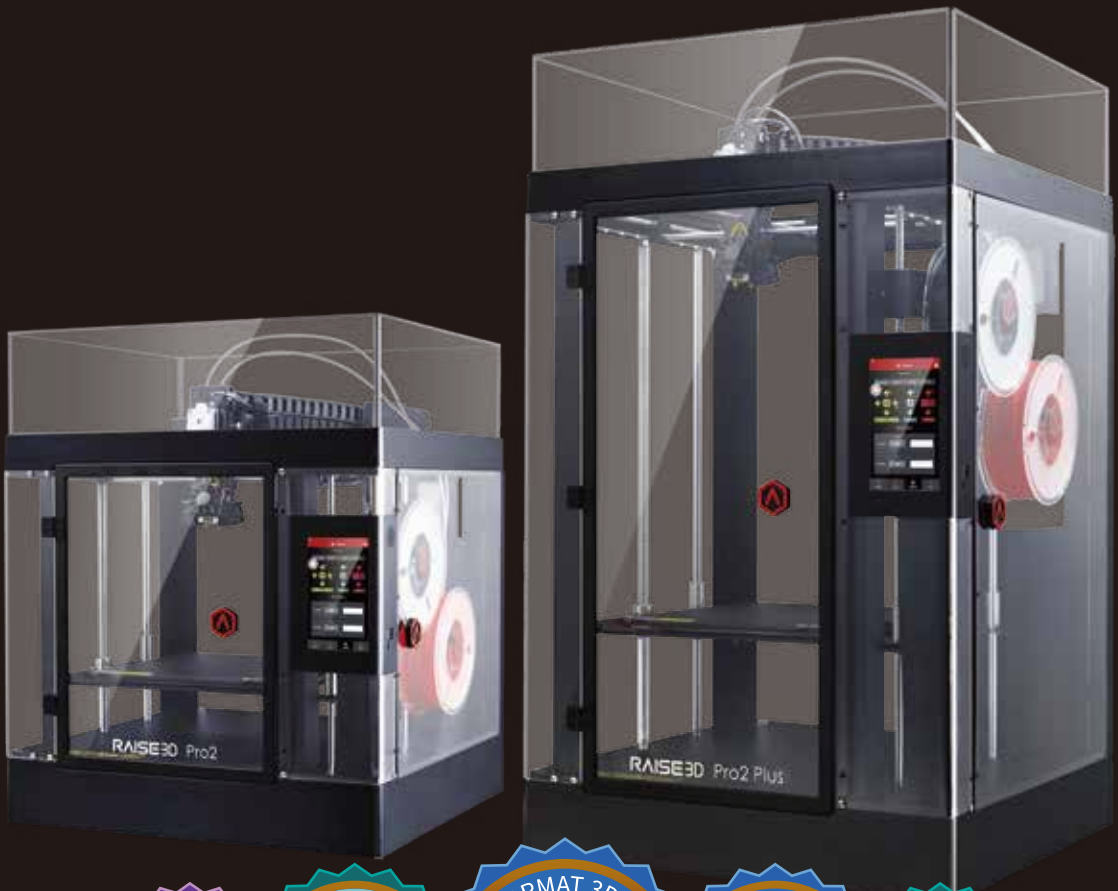


RaiseCloud
(Page 35)



2017 | 2018 | 2019

Award-Winning Legacy



"With upgrades to please everyone from the extruder savvy to the fume conscious, the Pro2 is as close to set-it-and-forget-it as we've seen in a top level machine."

Kelly Egan
Make Magazine

"The Pro2 is the best-in-class and possibly the best 3D printer on the market."

Sam Westin
Total 3D Printing

"The build quality of the Raise3D is outstanding, the screen a joy to work with - it's a huge step forward in usability."

Anatol Locker
All3DP

Pro2 Series 3D Printer

Imagine New Possibilities



Industrial grade printers ready to integrate print factories,
24/7 production capability and customized parts on demand.



Electronic Driven, Dual Extrusion with Retracting Hot Ends;
4× Increased Torque Performance



Massive Build Volume



Camera / HEPA Air Filtration



32 Bit Motion Control Board



Resume Print after Power Loss
or Filament Outage



0.01mm Minimum Layer Height



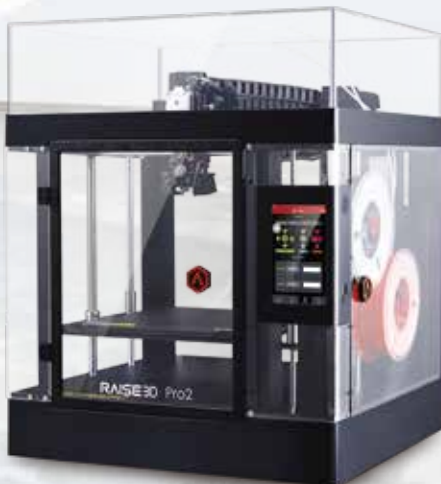
Diverse Filament Compatibility (Up to 300%)



7-inch Touch Screen



Wireless Compatibility



Pro2

12×12×11.8 inch

305×305×300 mm

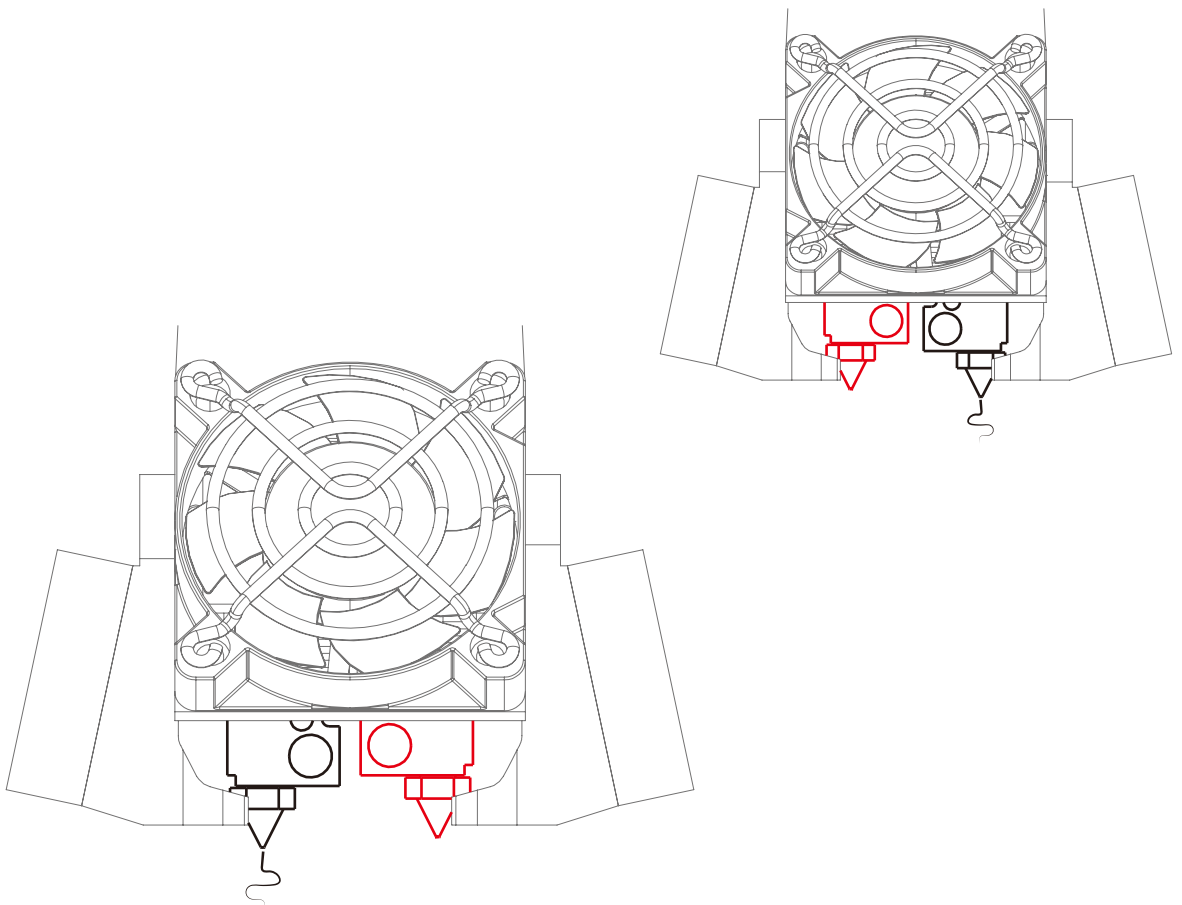


Pro2 Plus

12×12×23.8 inch

305×305×605 mm

Electronic Driven Dual Extrusion with Retracting Hot Ends



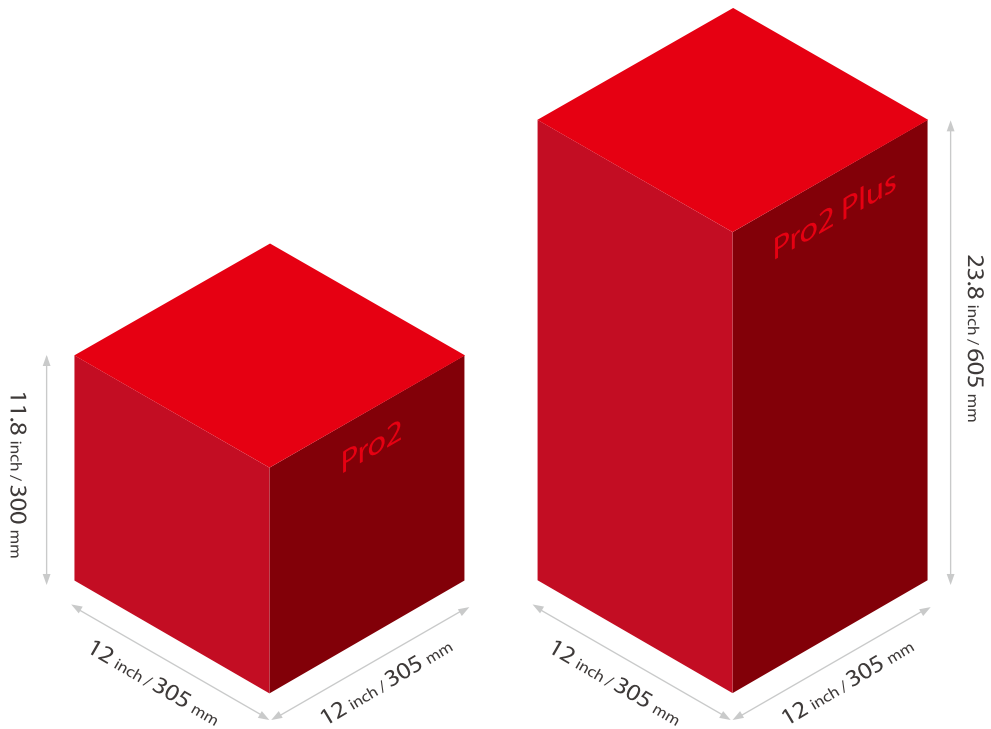


Print complex mechanical parts

Support a variety of multi-material prints

Improve print speed

- High repeatability (<0.005 mm, 5 micron)
- Lightning speed (<1 second switching time)
- 1.5 mm lifting distance, compatible with flexible filaments
- High reliability (tested >100,000 times)



Think Bigger

Up to

12 × 12 × 23.8 inch
305 × 305 × 605 mm

24/7 Reliability - Multiple Fail-Safe Systems - Industrial Grade Components

Capable of Printing a Variety of Filaments up to 300µ

PLA	ABS	HIPS
-----	-----	------

PC	TPU	TPE
----	-----	-----

NYLON	PETG	ASA
-------	------	-----

PP	PVA	
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Glass Fiber Infused

Carbon Fiber Infused

Metal Fill

Wood Fill



High Resolution

Unique motion system for
superior part quality and resolution



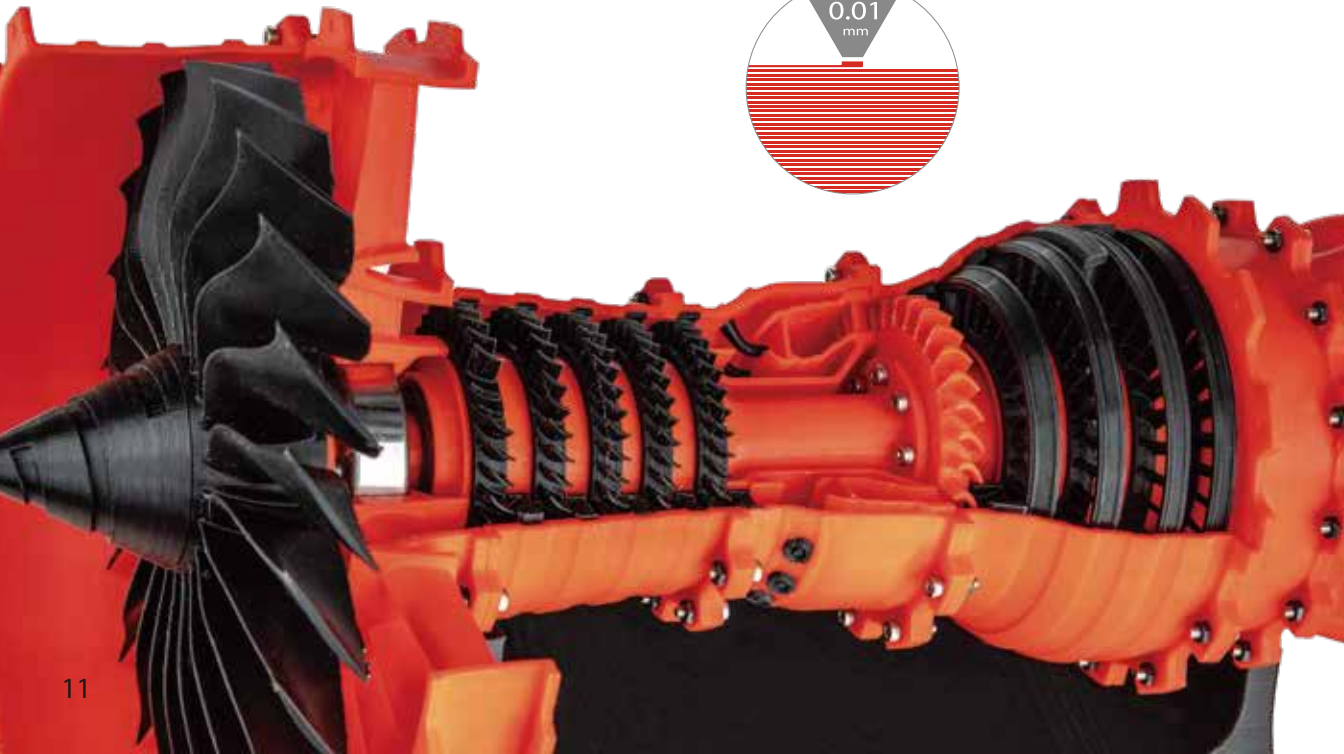
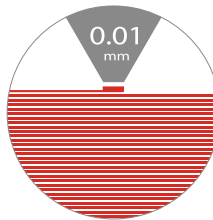
Interchangeable nozzles:
0.2mm nozzle for finer X/Y detail



Precise positioning:
0.78125micron positioning resolution on X/Y axis



Unmatched layer resolution:
0.01mm minimum layer height

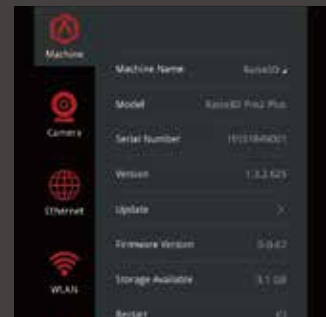


Intuitive User Experience

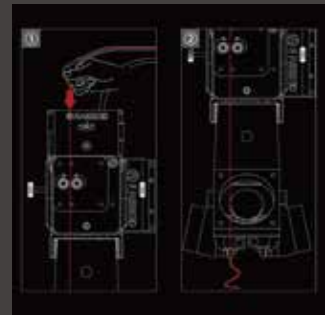
Visual Interface / Rapid Reviewing

Visual Print Progress / Full Adjustment Control

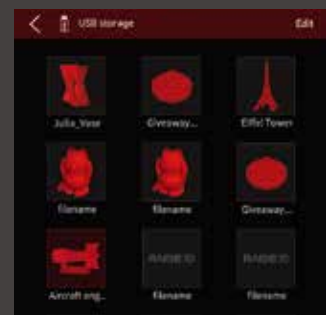
7-inch touch screen



Integrated Setting Control



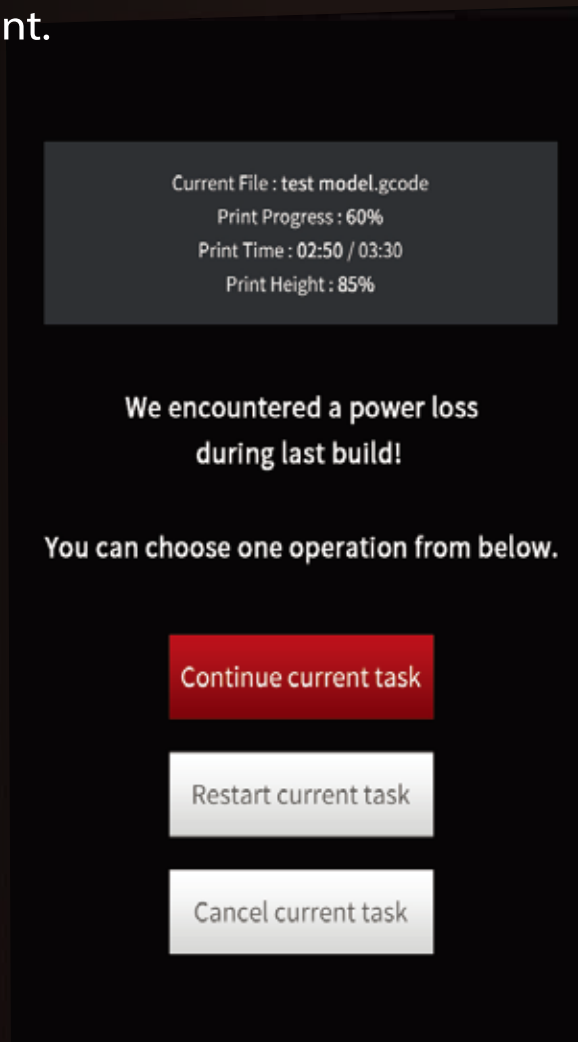
On-screen Assistance



Visual Model Selection

Second Generation Power Loss Resuming

Never lose a print.



Effortless, dependable, and accurate
with optical run-out sensors and end stops.

New Extruder with Filament Run-out Sensor

Better grip

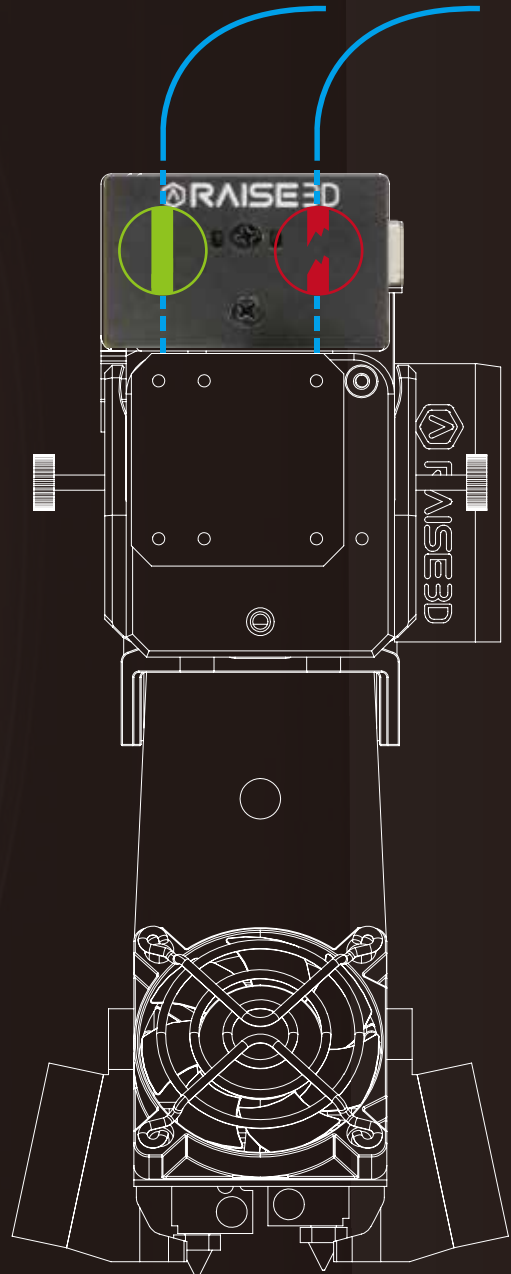
Dual gear driven

No slipping

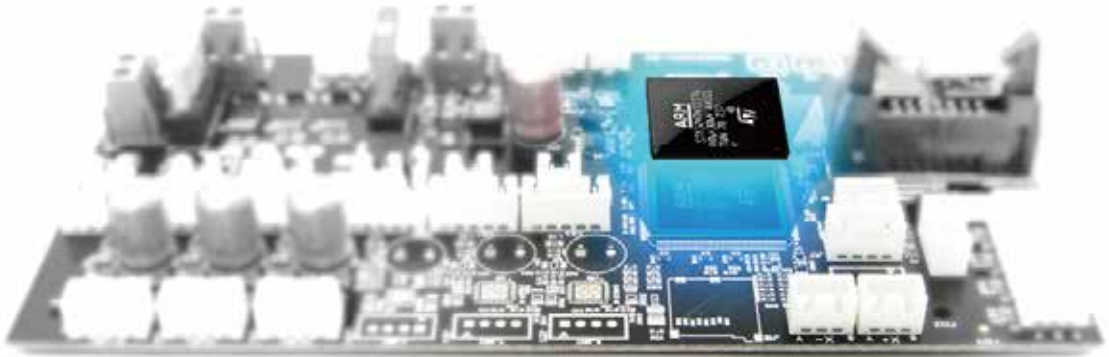
4x increased torque performance

Worry free prints

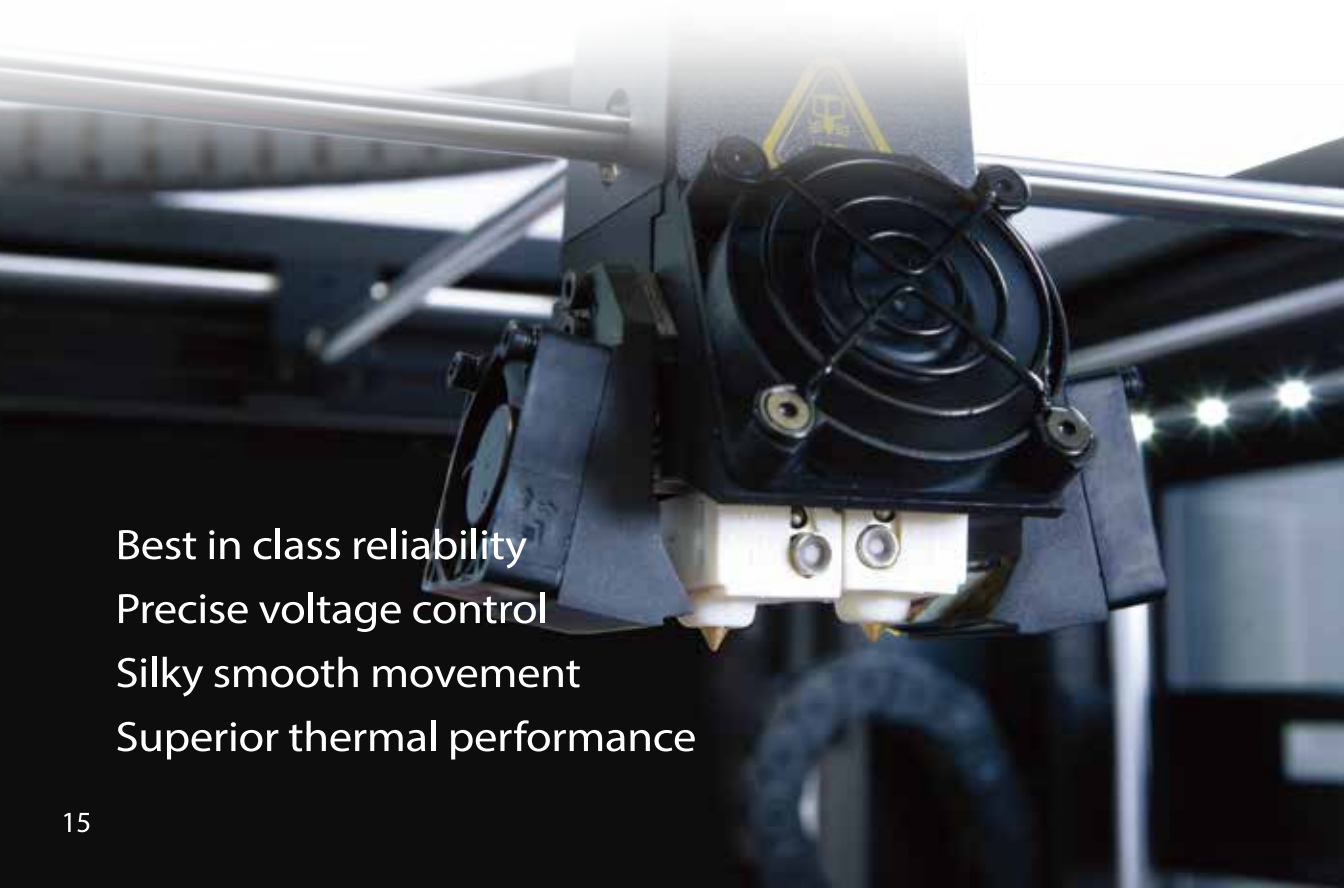
Optical run-out sensor



Next Generation Motion Controller



- 400MHz ARM Cortex-M7 32bit RISC FPU
- Industrial grade components
- Stand-alone motor driver
- 256 micro-steps driver system



Best in class reliability
Precise voltage control
Silky smooth movement
Superior thermal performance

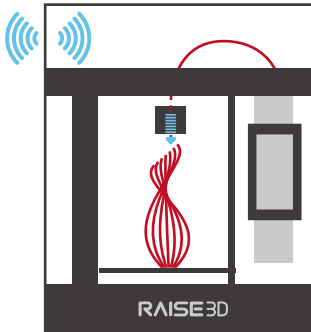
Remote User Interface

Access - Monitor - Control

Operate efficiently with ideaMaker by connecting wirelessly to your Pro2 Series Printer.



Wireless Upload



Wireless Control



Wireless Monitoring

HEPA Air Filtration



Workspace friendly.

Designed to silently remove nano-particles.

Build Plate System

Excellent warping prevention

Even heat distribution

Longer lifetime

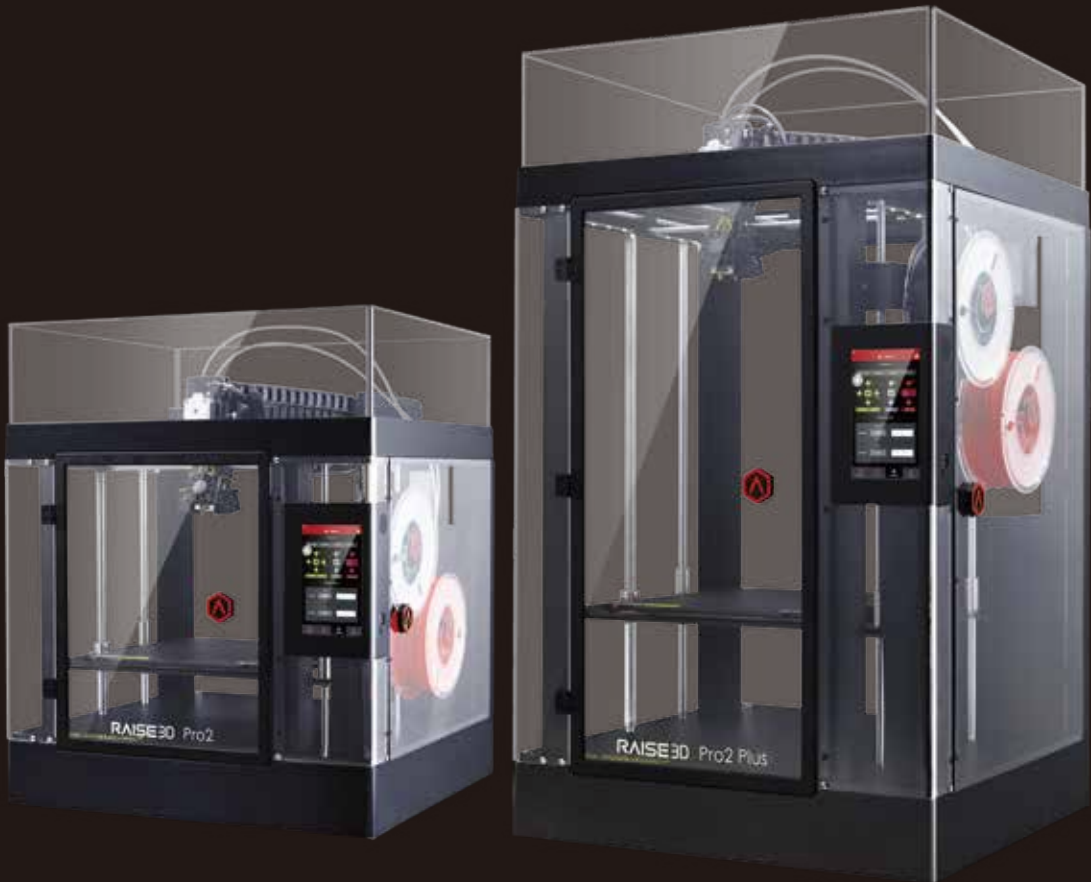
Easy to remove



- Aerospace grade material
- High temperature silicone heating bed
- Magnetically-held aluminium bed
- Improved 4+9 points lock system

More Features

- Built-in Camera
- State of the Art Extruder System
- Improved Factory Calibration
- High Quality Optical End Stops
- Software Controlled Active Cooling Fan
- Advanced Hot End



ITEM	Pro2		Pro2 Plus		
CONSTRUCTION	Build Volume (W×D×H)				
	Single Extrusion Print	Dual Extrusion Print	Single Extrusion Print	Dual Extrusion Print	
	12×12×11.8 inch 305×305×300 mm	11×12×11.8 inch 280×305×300 mm	12×12×23.8 inch 305×305×605 mm	11×12×23.8 inch 280×305×605 mm	
	Machine Size (W×D×H)				
	24.4×23.2×29.9 inch 620×590×760 mm		24.4×23.2×43.5 inch 620×590×1105 mm		
ELECTRICAL	Power Supply Input Power Supply Output		100-240 V AC, 50/60 Hz 230 V @ 3.3 A 24 V DC, 600 W		
PRINTER	Print Technology		FFF		
	Print Head System		Dual-head with electronic lifting system		
	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		Heated aluminum build plate with magnetic holding		
	Max Build Plate Temperature		110 °C		
	Heated Bed Material		Silicone		
	Build Plate Leveling		Pre-calibrated leveling		
	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		0.01 - 0.25 mm		
	Nozzle Diameter		0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)		
	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, RCM		
	Filter		HEPA filter with activated charcoal		
	SOFTWARE	Slicing Software Supported File Types Supported OS Machine Code Type		ideaMaker STL/ OBJ/ 3MF Windows/ macOS/ Linux GCODE	
	PRINTER CONTROLLER	User Interface Network Resume Print after Power Outage Screen Resolution Motion Controller Logic Controller Memory Onboard Flash OS Ports		7-inch Touch Screen Wi-Fi, Ethernet Firmware recording, no need for battery installation. 1024×600 Atmel ARM Cortex-M7 400MHz FPU Freescale i.MX6, Quad core 1Ghz ARM processor 1GB 8GB Embedded Linux USB 2.0×2, Ethernet×1	

E2 3D Printer

Precise, Reliable, and Affordable



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



Mirror Mode



Duplication Mode



Auto Bed
Leveling



Industry First Video-Assisted
Offset Calibration System



Safety Features



Power Saving
Button



Flexible Build
Plate



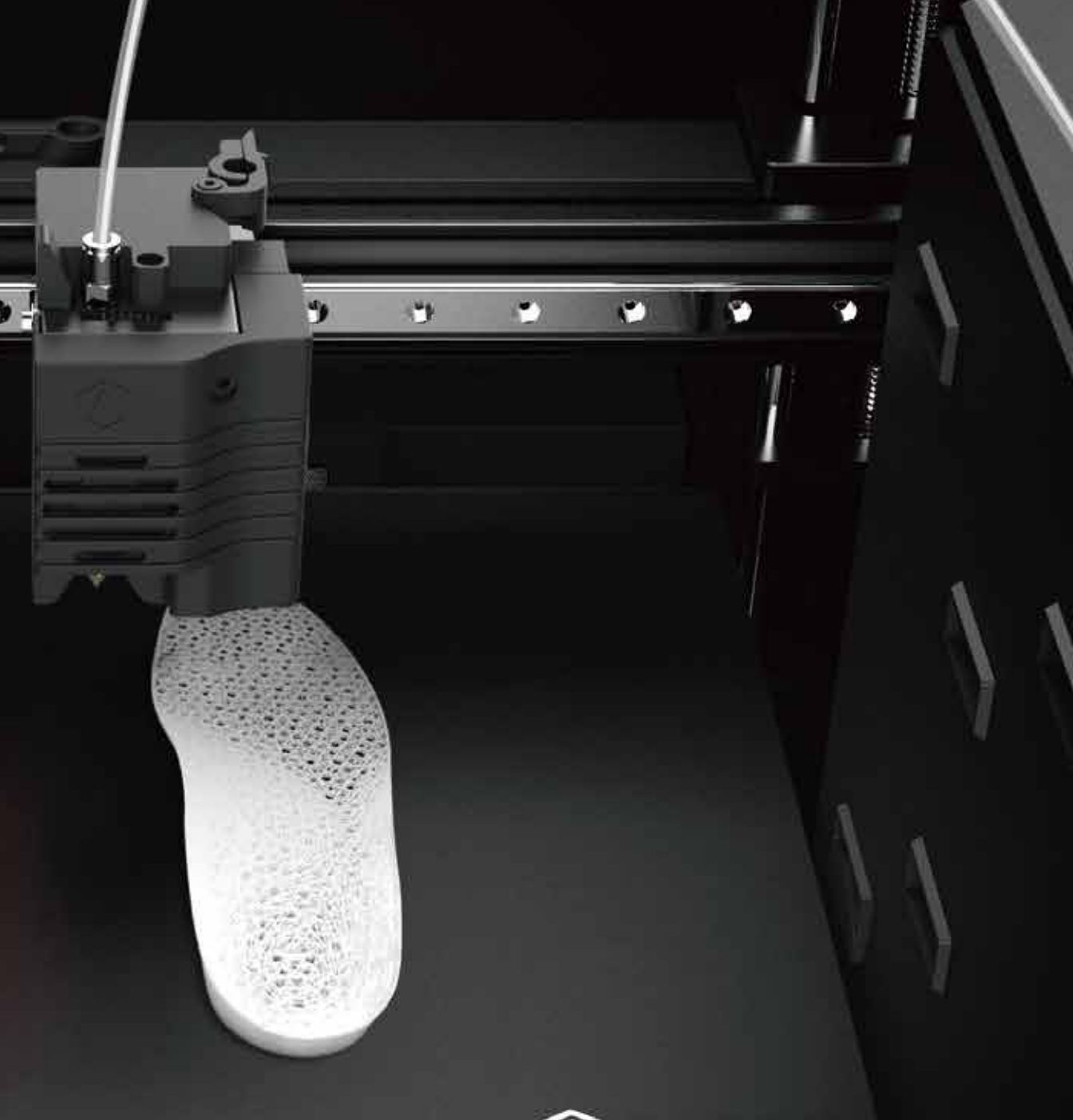
Variety of Material
Compatibility

DEX (Independent Dual Extruders) Dual Prints Simultaneously



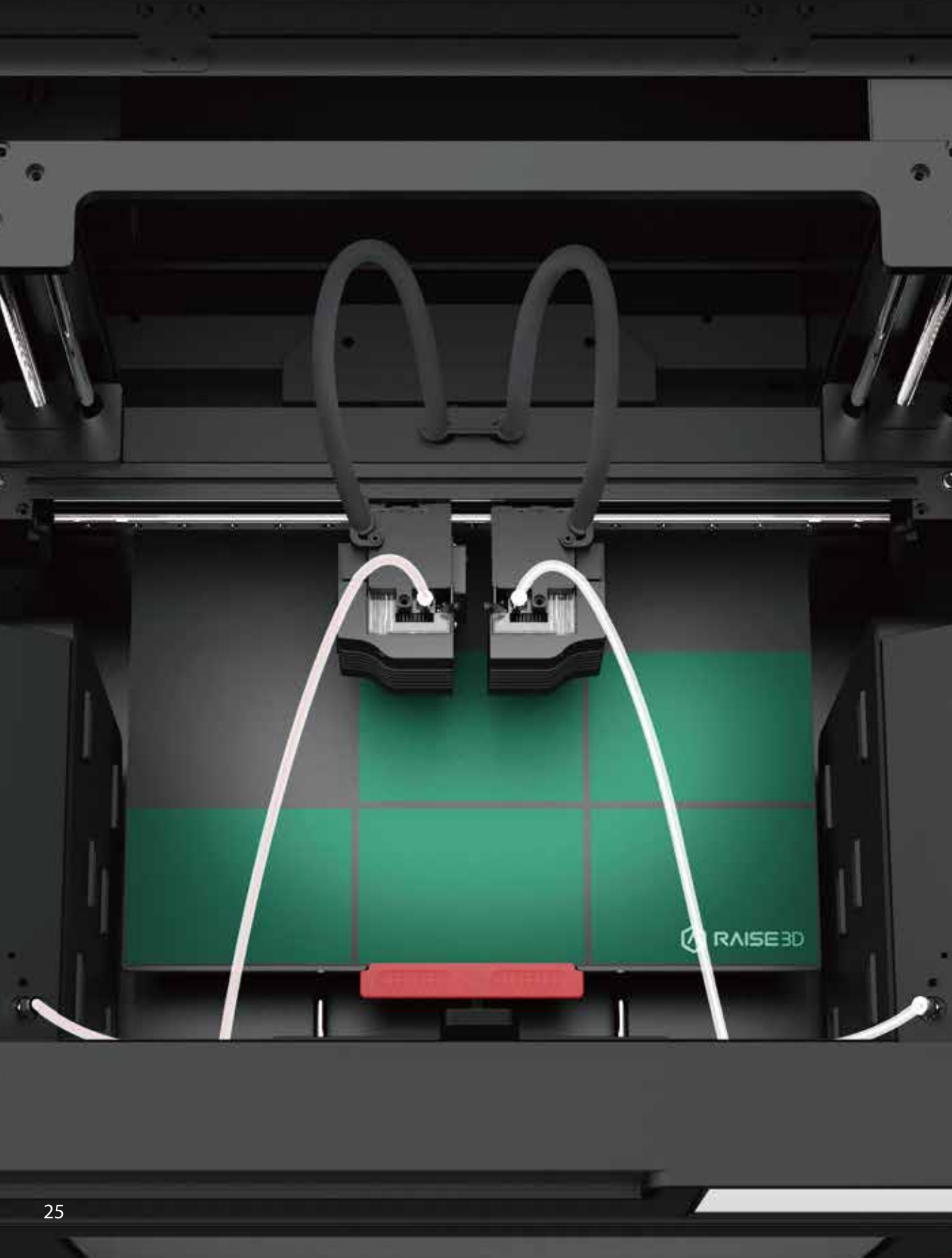
Mirror Mode

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



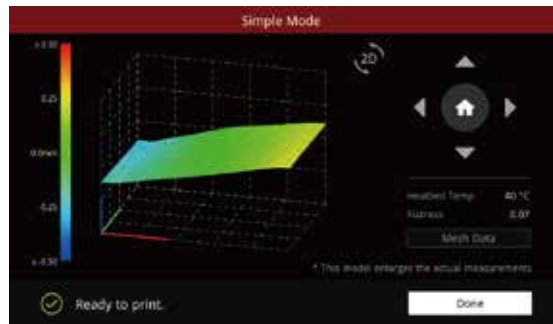
Duplication Mode

Use both extruders in synchronized printing, doubling production capabilities.



Auto Bed Leveling

Confirms that 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 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.



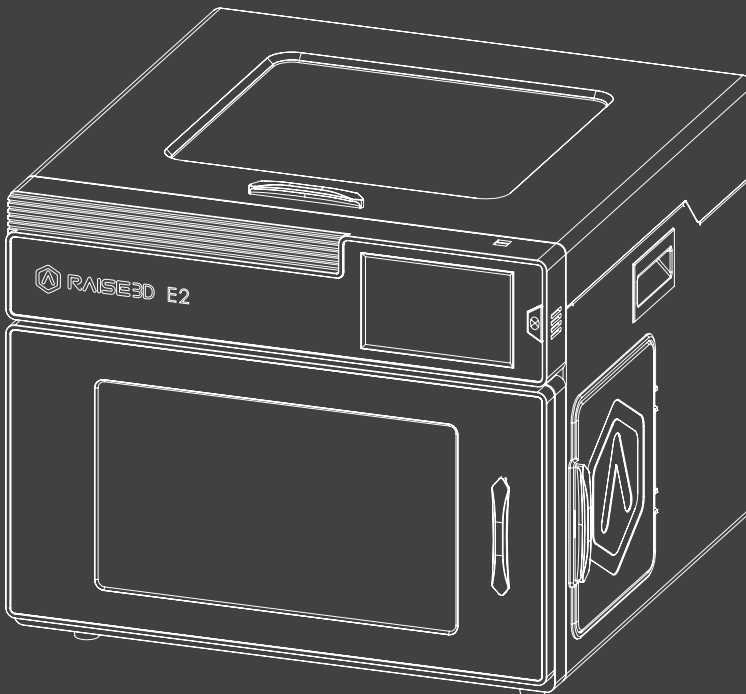
Variety of Material Compatibility

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



More Features

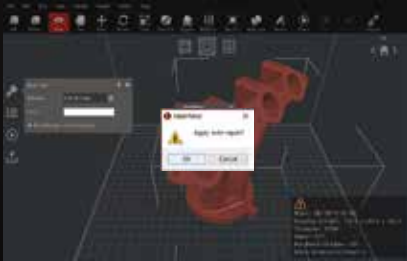
- Power Loss Recovery
- Filament Run-out Sensor
- Remote Video Monitoring
- HEPA Air Filtration
- Remote User Interface
- 7-inch Touch Screen
- Capable of Printing a Variety of Filaments up to 300%



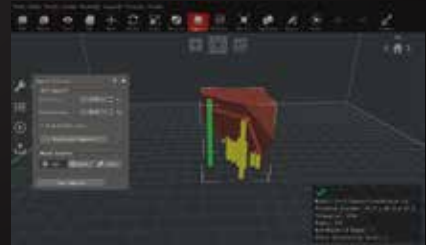
ITEM	E2	
CONSTRUCTION	Build Volume (W×D×H)	
	Single Extruder Print	Dual Extruder Print
	13×9.4×9.4 inch / 330×240×240 mm	11.6×9.4×9.4 inch / 295×240×240 mm
	Machine Size (W×D×H)	
	23.9×23.5×18.3 inch / 607×596×465 mm	
ELECTRICAL	Power Supply Input Power Supply Output	100-240 V AC, 50/60 Hz 230 V @ 2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

ideaMaker

Powerful Slicing Software



Model Repairing

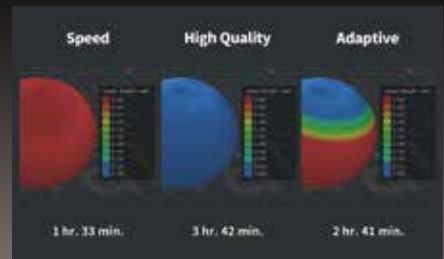


Customizable Manual Support



Remote Management

Adaptivelaye Height, Modifiers,
Sequential Printing



Speed

- Rapid and efficient
- Native-compiled, Multi-threaded, 64-bit

Advanced Features

- Adaptive layer height, Modifiers, Sequential printing
- Automated part separation for Multi-Part prints
- Repair and optimize unprintable files
- Cut models at any axis or angle

Support

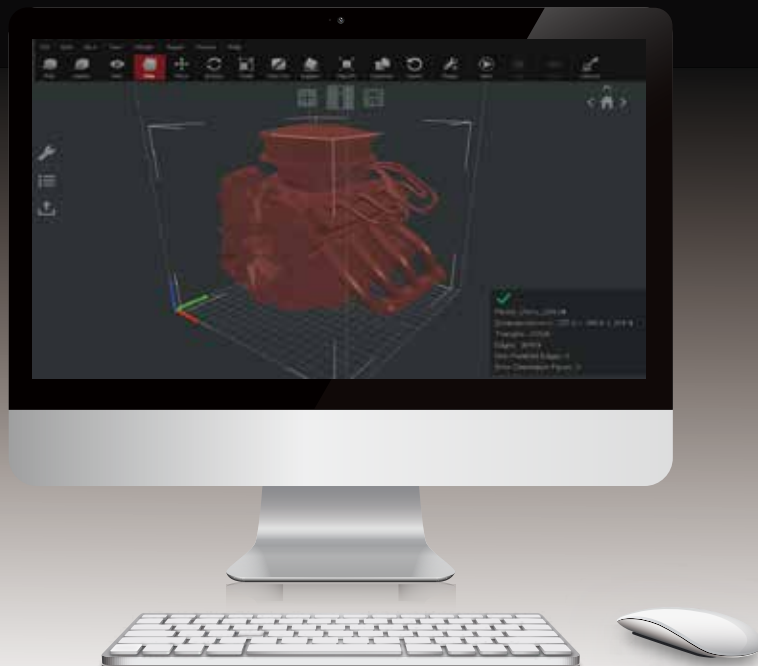
- Custom supports/Automatically generated supports
- Manual support and editing features

Optimized Interface

- Create and manage profiles to easily switch between settings
- Cross section viewing
- Auto-layout for multi-part printing
- User friendly UI
- Print in only 2 clicks

Compatibility

- Compatible with most FFF 3D Printers
- Input STL/OBJ/3MF, Outputs GCODE
- Available in English, German, French, Italian, Russian, Polish, Japanese, Korea, Chinese and more





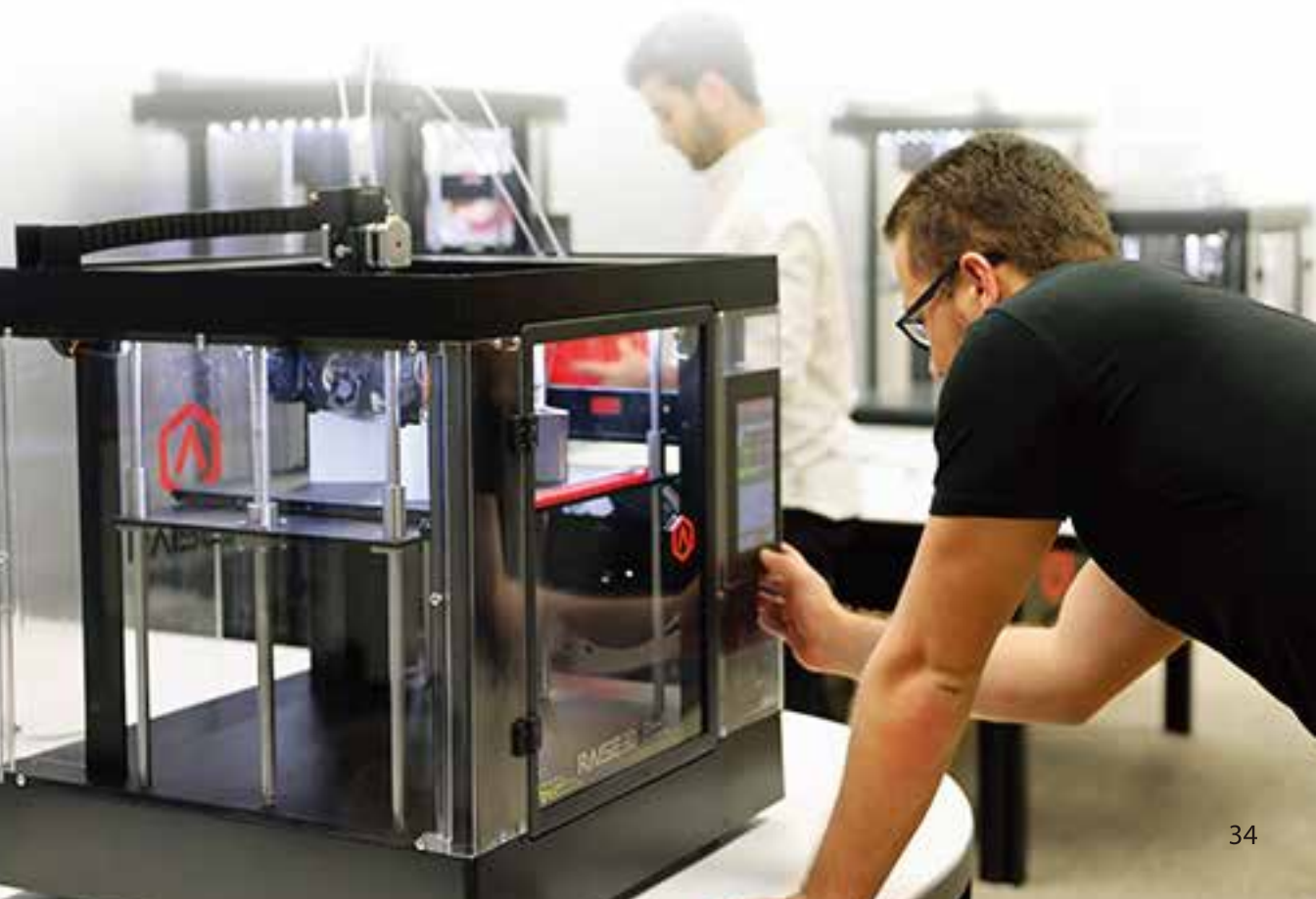
Learn from our experts

In-Depth Tutorials
Advanced Features
Tips and Techniques
and MORE



Expert instruction, training and tips

Subscribe free Today  *Raise3D*
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A smarter way to print.

The sky is the limit with RaiseCloud

RaiseCloud is the total management solution for both small businesses and enterprise-level production.

Manage a network of machines and coordinate a team of users with the ease and full control of a centralized platform that offers the flexibility to create solutions in any industry.

Efficient Printing

Private and shared storage for team collaboration and automated work orders.

Operate Anywhere

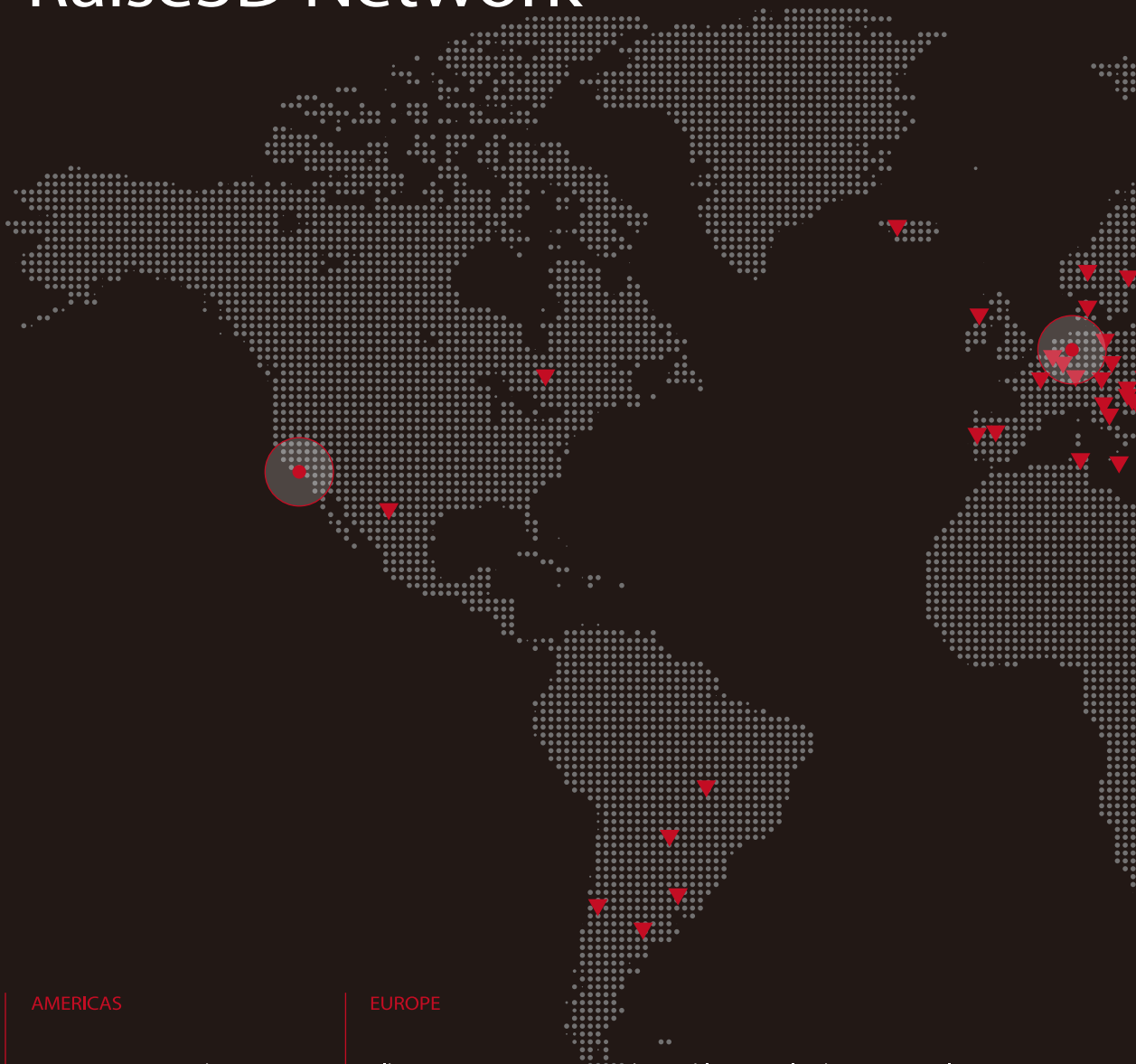
Your complete command center all in one central hub.
Total control at the click of a button.

Total Management

Assign tasks and monitor progress with at-a-glance reports, camera monitoring and more.



Raise3D Network



AMERICAS

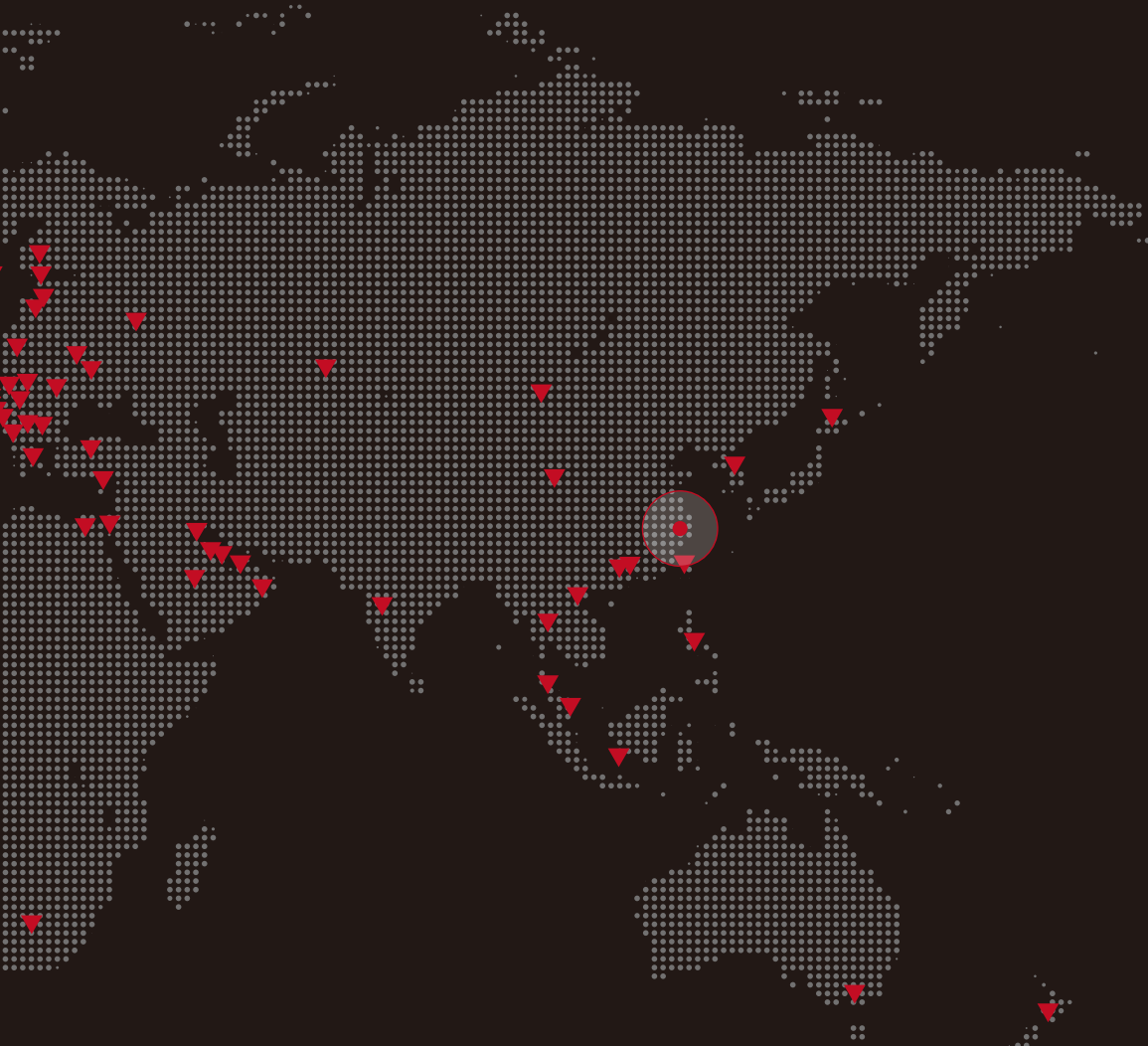
Argentina	United States
Brazil	
Canada	
Ecuador	
Mexico	
Paraguay	
Peru	
Uruguay	

EUROPE

Albania	Czech Republic	Iceland	Malta
Andorra	Denmark	Ireland	Montenegro
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