PIONEERING FLEXIBLE MANUFACTURING

WWW.RAISE3D.COM

About Us

Raise3D has become a global leader in manufacturing precise and reliable 3D printers, with headquarters in th e 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.

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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

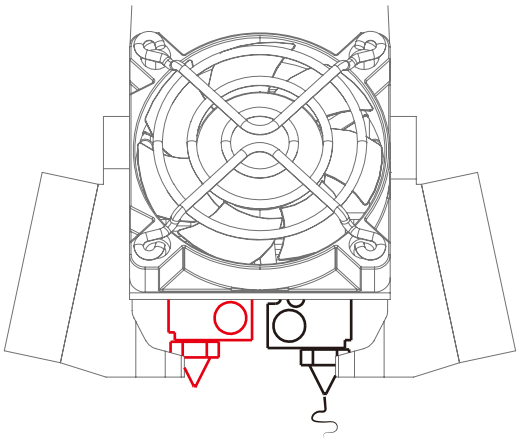
Industrial grade printers ready to integrate print factories,
24/7 production capability and customized parts on demand.

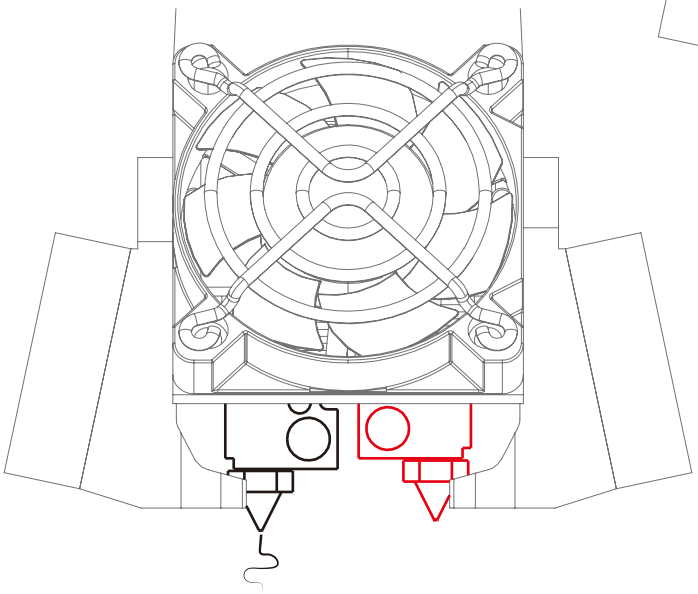
- Electronic Driven, Dual Extrusion with Retracting Hot Ends;
  4× Increased torque performance
- Massive Build Volume
- Camera / HEPA Air Filtration
- 32 Bit Motion Control Board
- Resume Print after Power Loss
  or Filament Outage
- 0.01mm Layer Height
- Diverse Filament Compatibility (Up to 300°C)
- 7-inch Touch Screen
- Wireless Compatibility

Pro2
12"×12"×11.8"

Pro2 Plus
12"×12"×23.8"

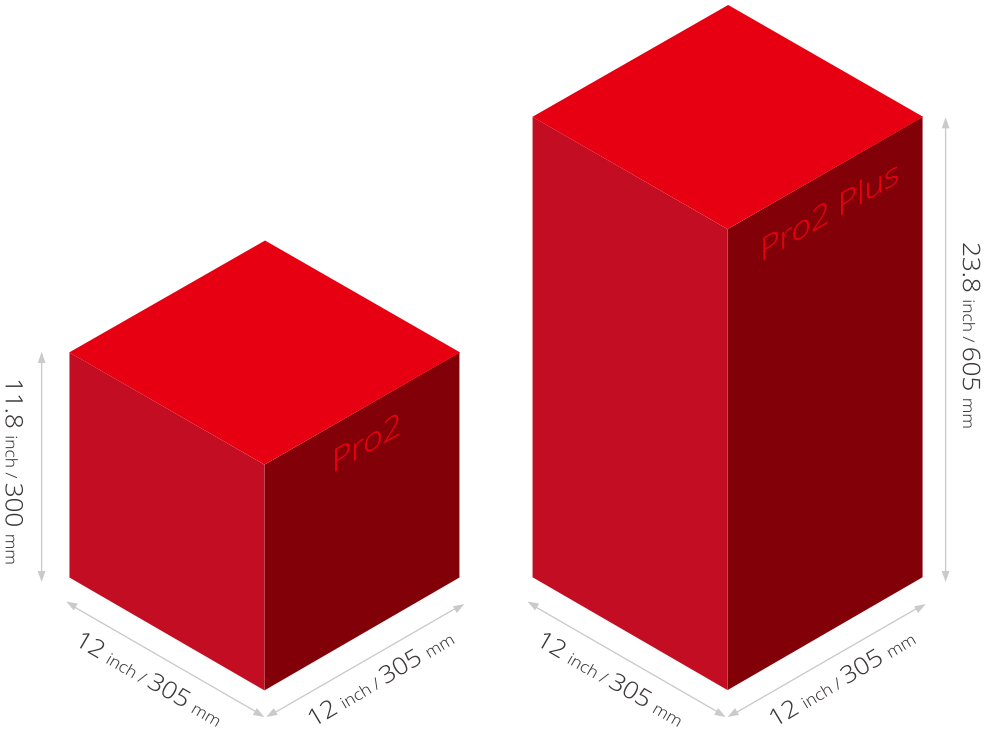
Electronic Driven
Dual Extrusion
with Retracting Hot Ends





Prints complex mechanical parts
Supports a variety of multi-material prints
Improves print speed

· High repeatability (<0.005 m, 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 300°C

PLA	ABS	HIPS
PC	TPU	TPE
NYLON	PETG	ASA
PP	PVA	

Glass Fiber Infused

Carbon Fiber Infused

Metal Fill

Wood Fill

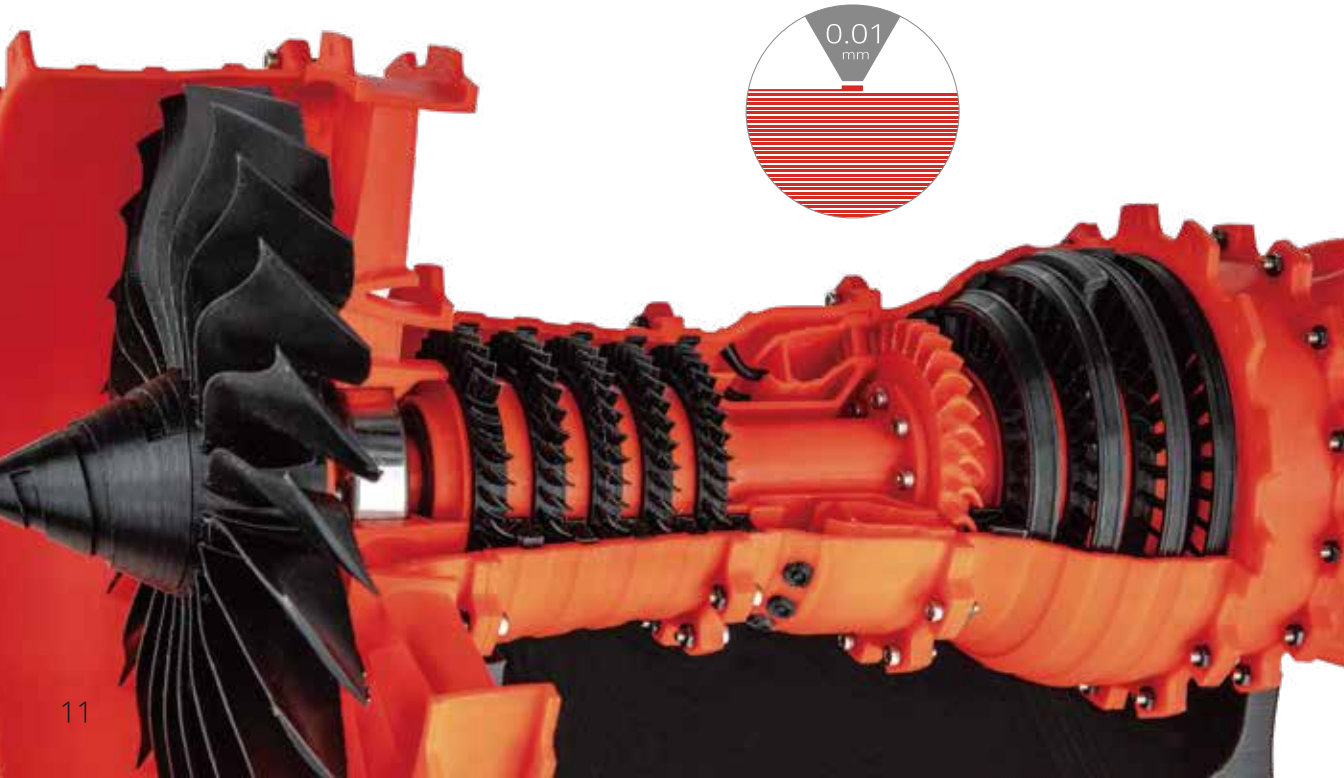
High Resolution

Unique motion system for superior part quality and resolution

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

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

Unmatched layer resolution:
0.01 mm layer thickness



Intuitive User Experience

Visual Interface / Rapid Reviewing
Visual Print Progress / Full Adjustment Control

7-inch Touch Screen

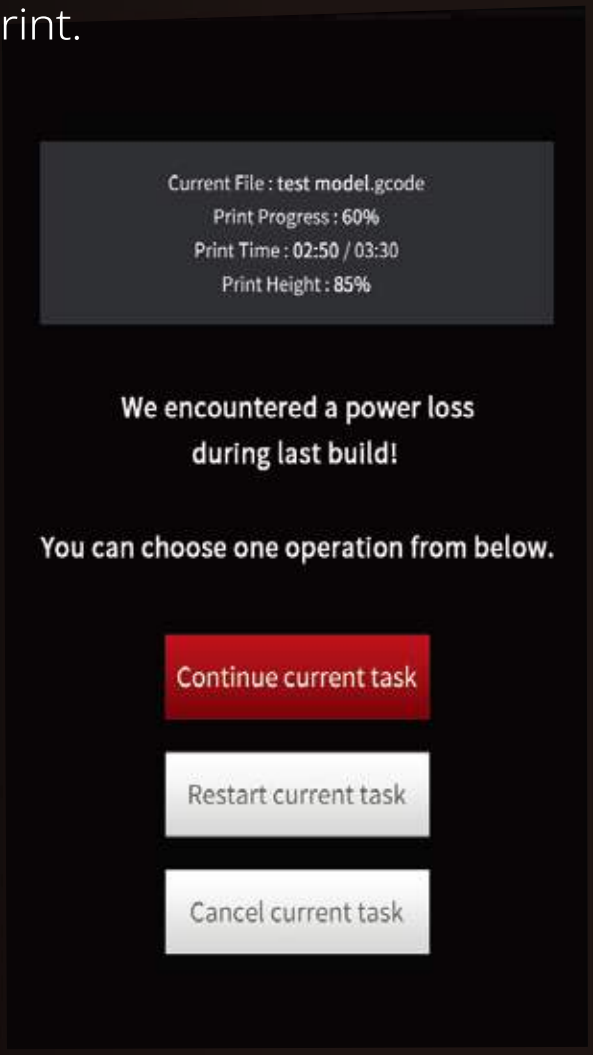
Integrated Setting Control

On-screen Assistance

Visual Model Selection

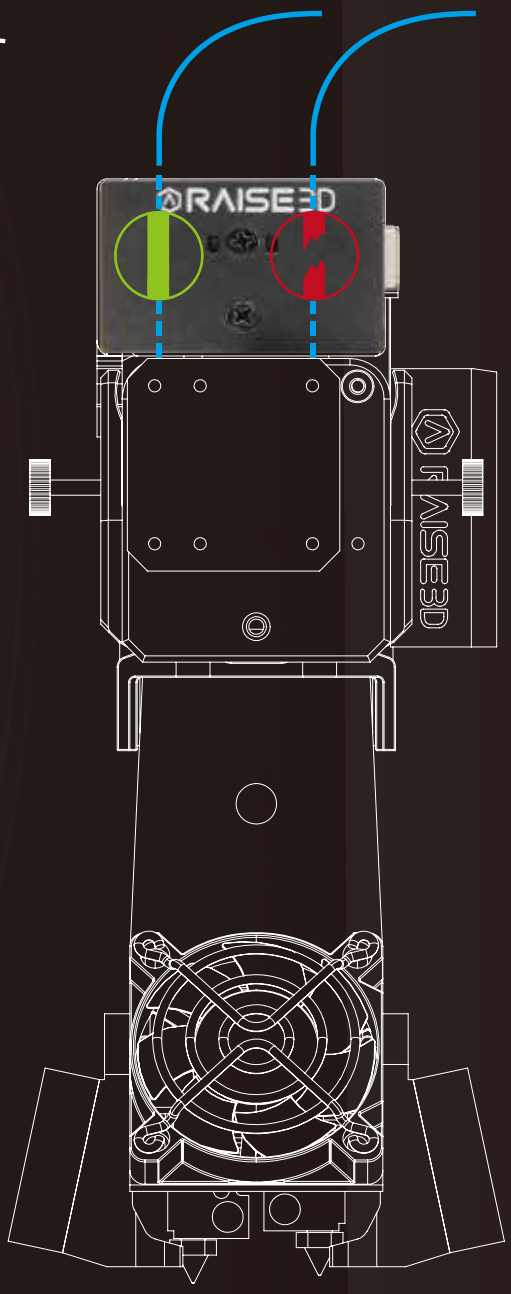
Second Generation Power Loss Resuming

Never lose a print.



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

New Extruder with Filament Run-out Sensor

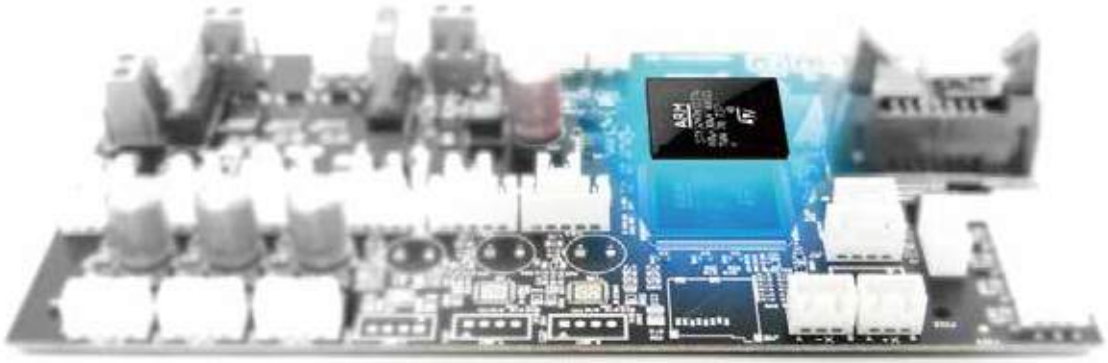


Better grip
Dual gear driven

No slipping
4× increased torque performance

Worry free prints
Optical run-out sensor

Next Generation Motion Controller



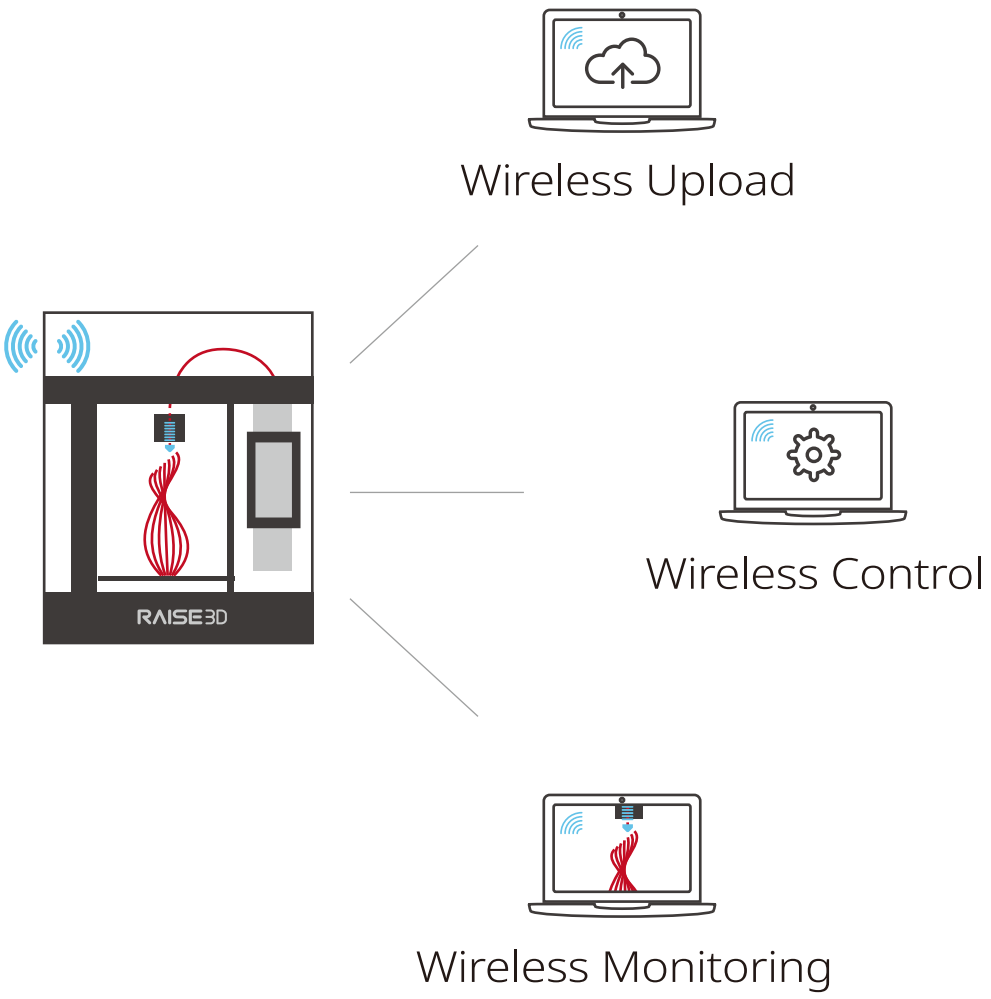
· 400MHz ARM Cortex-M7 32bit RISC FPU
· Industrial grade components
· Stand-alone motor driver
· 256 micro-steps driver system

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.



HEPA Air Filtration

Workspace friendly.
Designed to silently remove nano-particles.

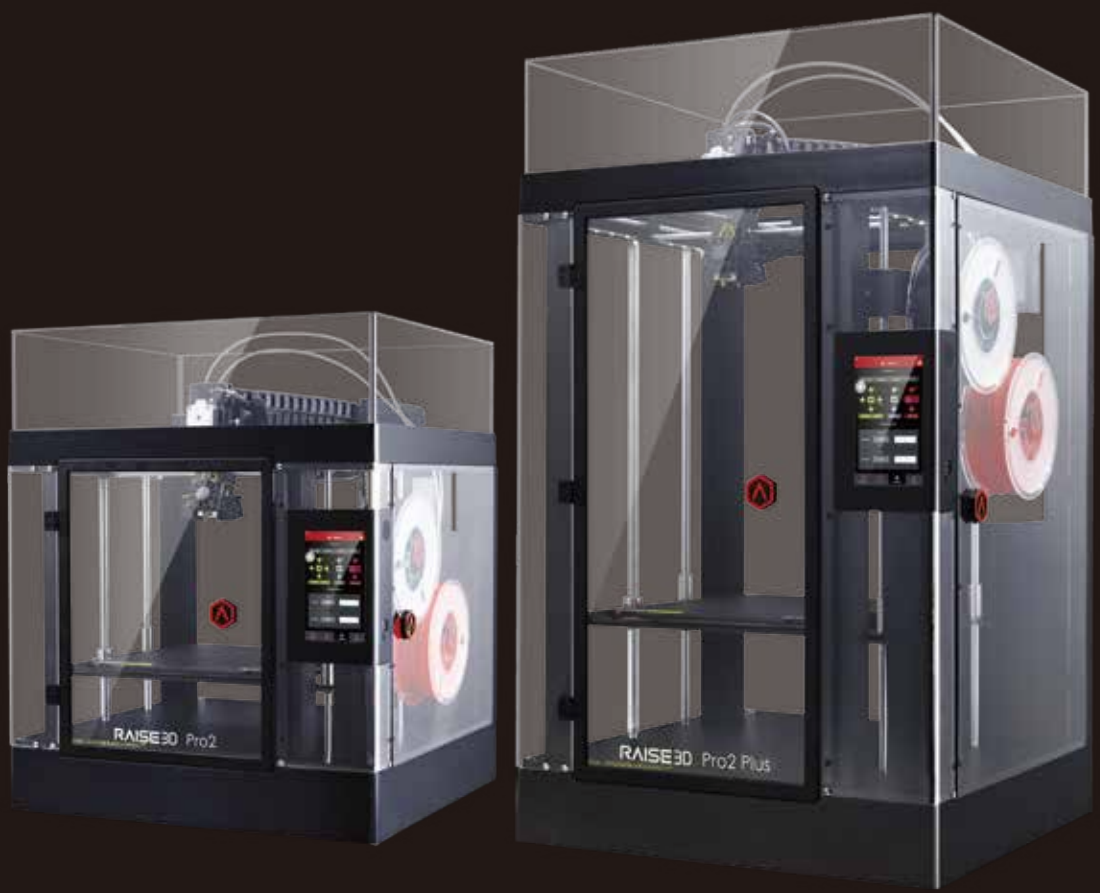
Build Plate System

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	100-240 V AC, 50/60 Hz 230 V @ 3.3 A
	Power Supply Output	24 V DC, 600 W
PRINTER	Print Technology	FFF
	Print Head	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
	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
	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-M7 400MHz FPU
	Logic Controller	Freescale i.MX6, Quad core 1Ghz ARM processor
	Memory	1GB
	Onboard Flash	8GB
	OS	Embedded Linux
	Ports	USB 2.0*2, Ethernet*1

E2 3D Printer

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.

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

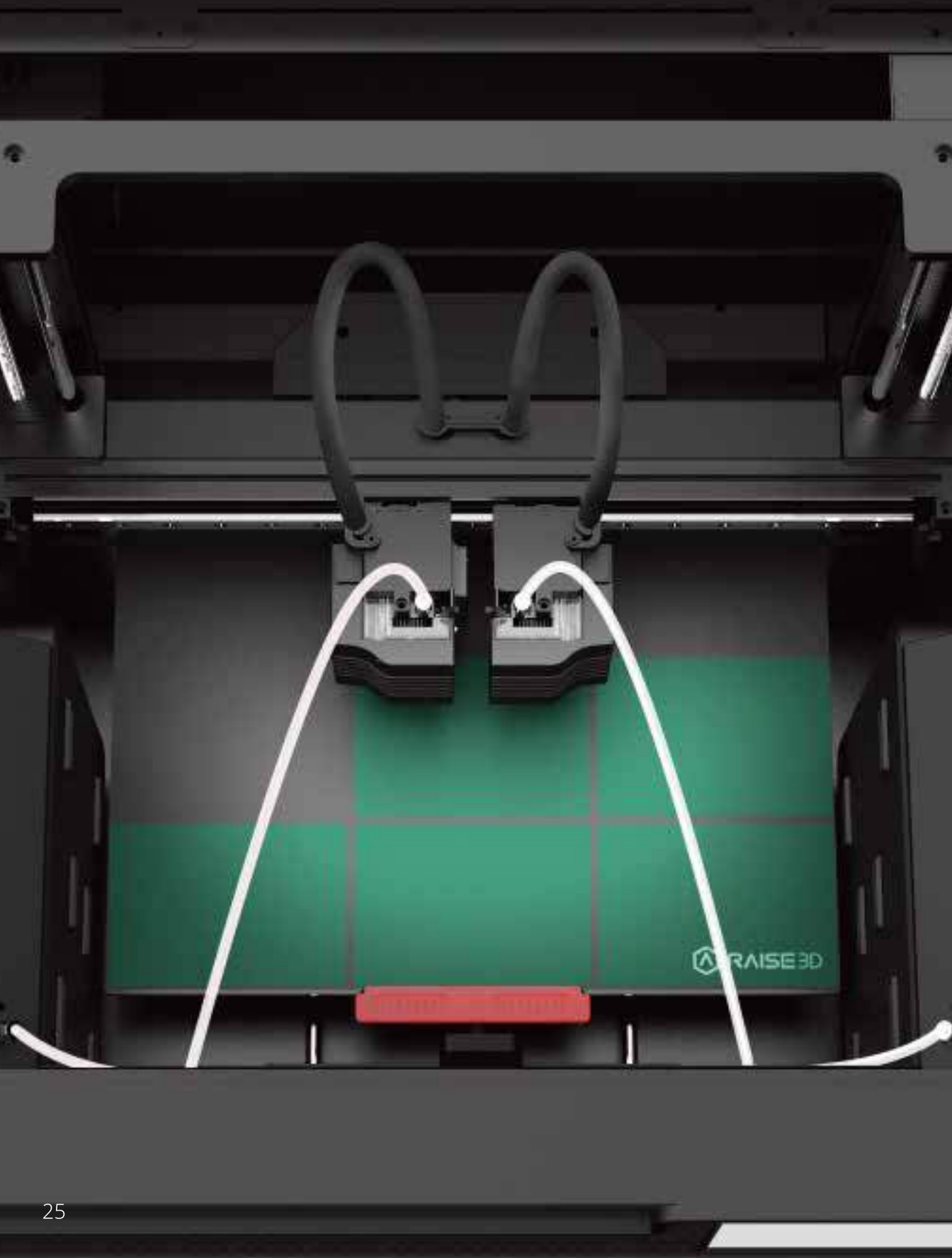
IDEX (Independent Dual Extruders)
Multiple Prints Simultaneously

Mirror Mode

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

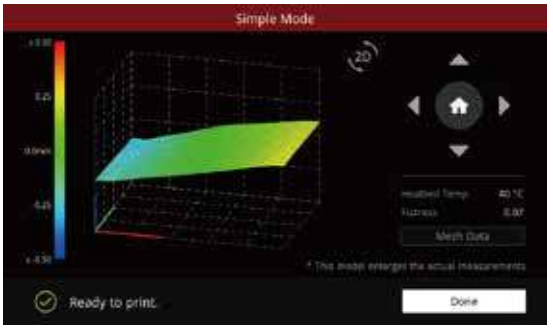
Duplication Mode

Use both extruders in synchronized printing,
doubling production capabilities.


RAISE3D

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 and LED lights to save energy and print throughout the night.

Flexible Build Plate

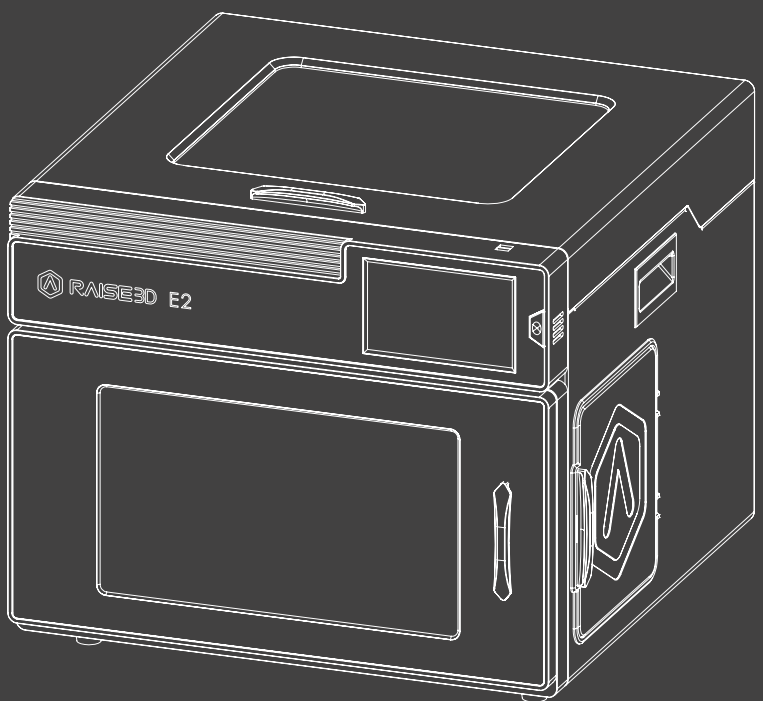
Easily remove prints from the flexible build plate while minimizing potential print damage to quickly return to printing.

Variety of Material Compatibility

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

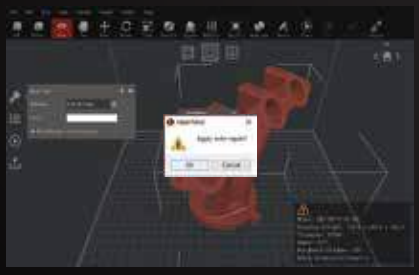
More Features

- 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°C

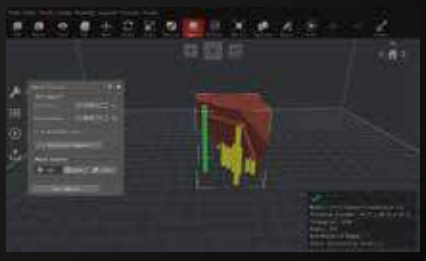


ITEM	E2	
CONSTRUCTION	Build Volume (W×D×H)	
	Single Extruder Print	Dual Extruder Print
	13×9.4×9.4 inch / 330×240×240 mm	11.6×9.4×9.4 inch / 295×240×240 mm
	Machine Size (W×D×H)	
	23.9×23.5×18.3 inch / 607×596×465 mm	
ELECTRICAL	Power Supply Input	100-240 V AC, 50/60 Hz 230 V @ 2 A
	Power Supply Output	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
	Nozzle Diameter	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)
	Hotend	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

ideaMaker
Powerful Slicing Software



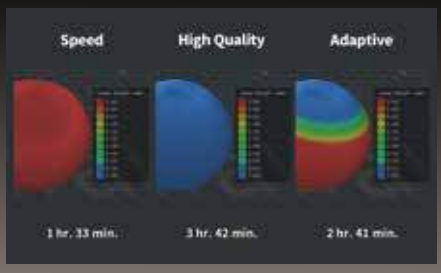
Model repairing



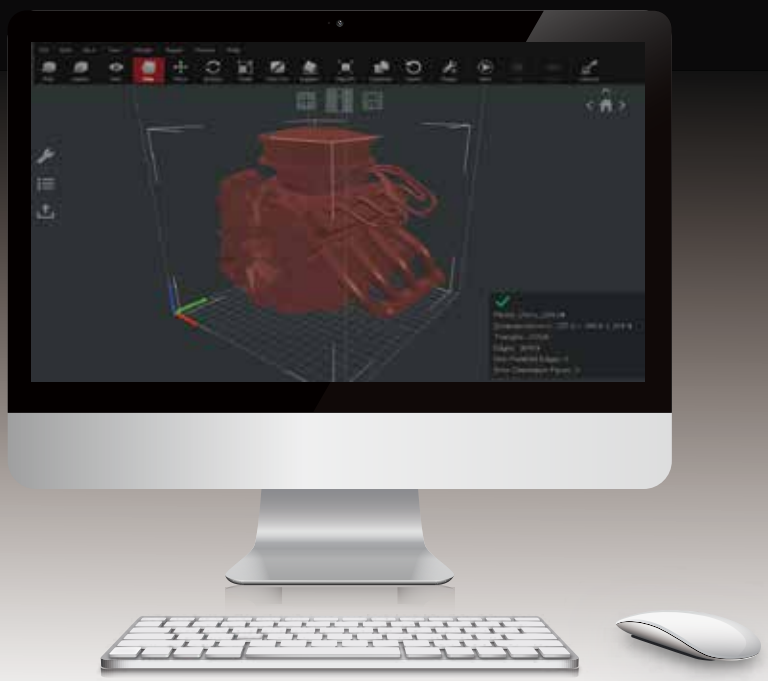
Customizable manual support

Remote management

Adaptive Layer 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



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Advanced Features
Tips and Techniques
and MORE

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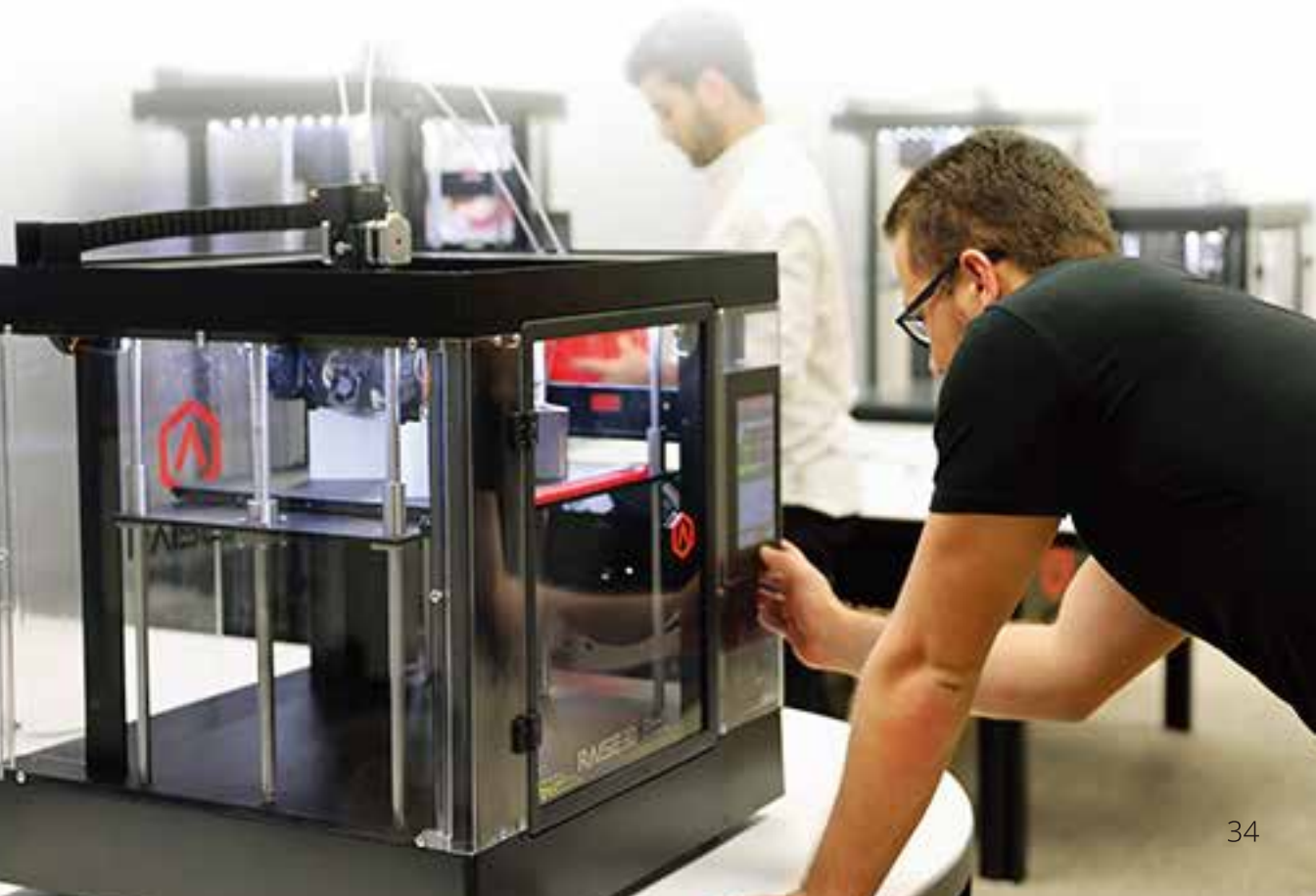


RaiseCloud

A smarter way to print.

The sky is the limit with **RaiseCloud**

RaiseCloud is the total management solution for enterprise level production.
Manage a network of machines and coordinate a team of users with the ease and full control of a centeralized platform.

Efficient Printing

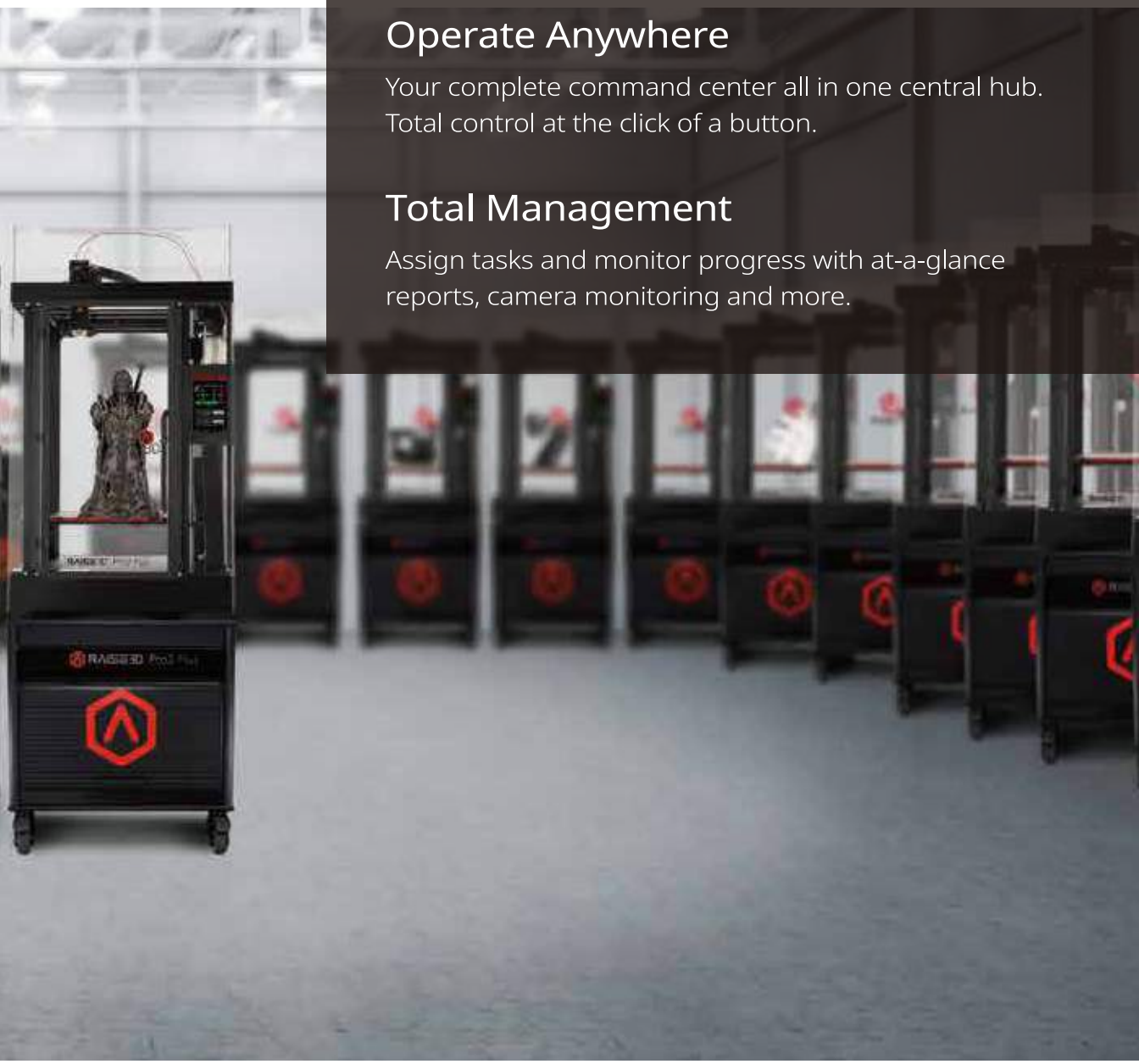
Private and shared storage for team collaboration and automated work orders.

Operate Anywhere

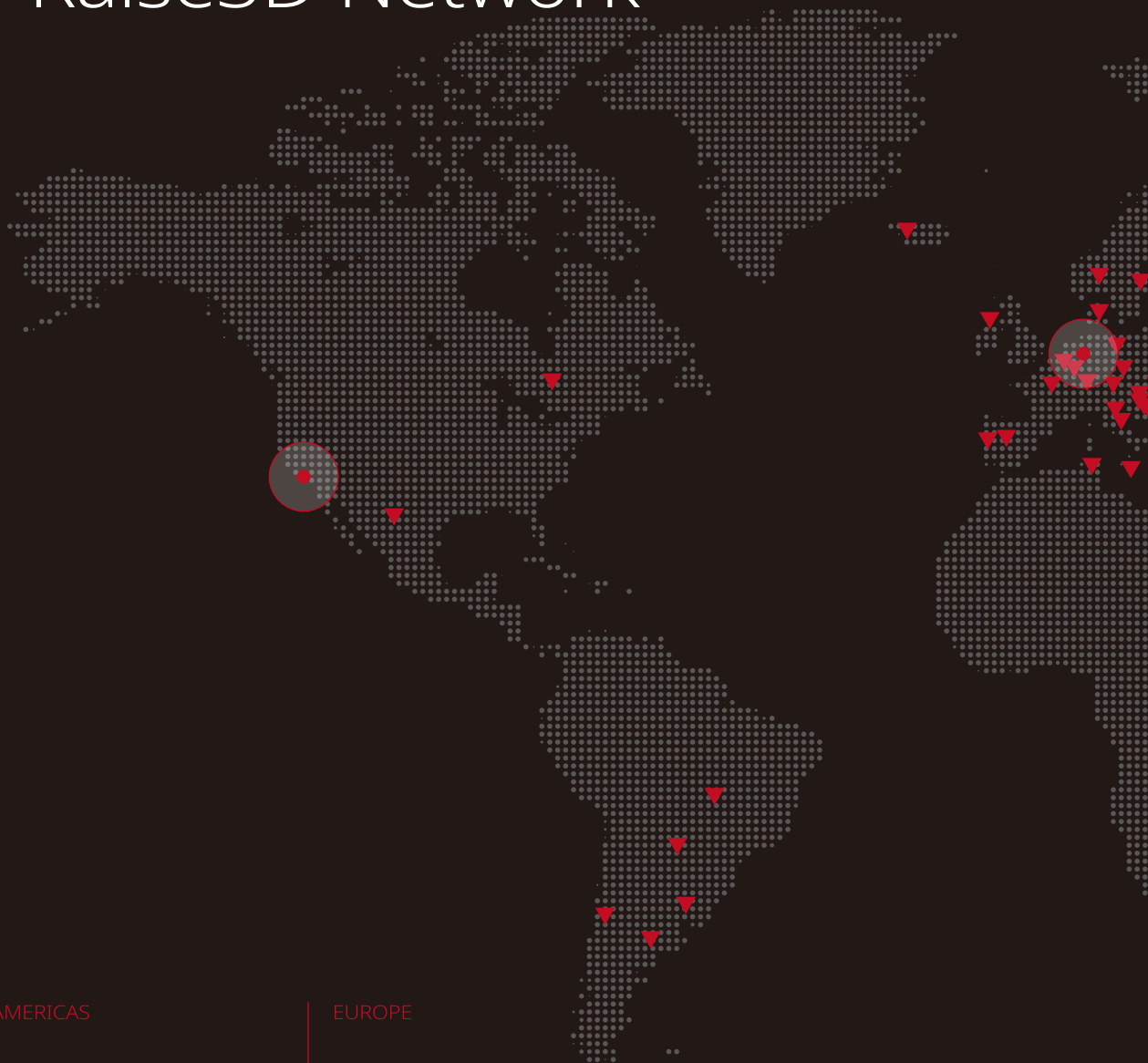
Your complete command center all in one central hub. Total control at the click of a button.

Total Management

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



Raise3D Network



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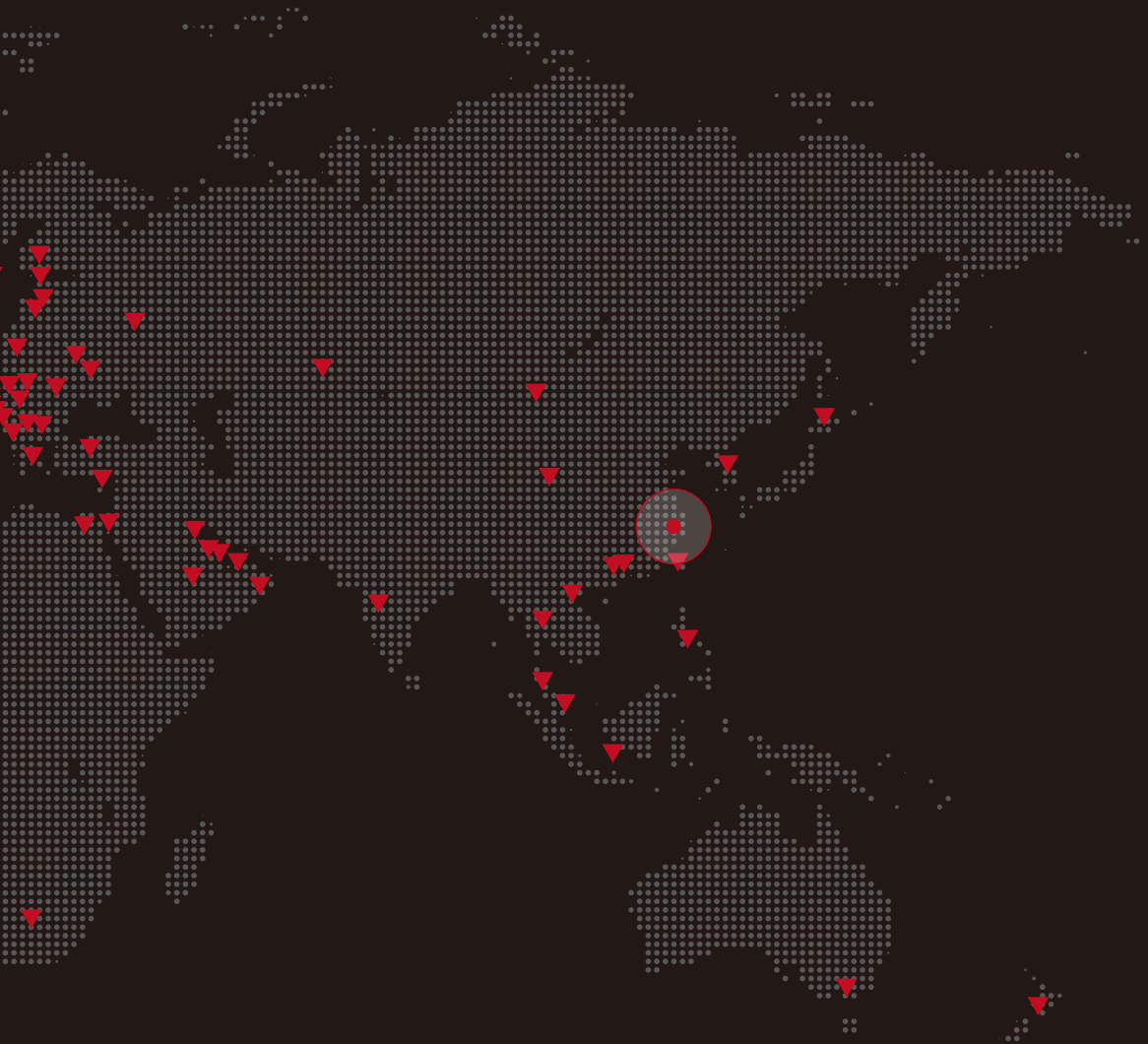
SALES PARTNER

RAISE3D OFFICE



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E | sales@designsupply.com
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