




Raise3D 3D Printers Comparison Sheet

| Item | | Pro3 (NEW) | Pro3 Plus (NEW) | E2CF (NEW) | E2 | Pro2 | Pro2 Plus | |
|----------------------|-------------------------------|---|---|--|---|---|---|---|
| | |  |  |  |  |  |  | |
| CONSTRUCTION | Build Volume (W x D x H) | Single Extruder Print | 11.8 x 11.8 x 11.8 inch/ 300 x 300 x 300 mm | 11.8 x 11.8 x 23.8 inch/ 300 x 300 x 605 mm | 13 x 9.4 x 9.4 inch/ 330 x 240 x 240 mm | 13.0 x 9.4 x 9.4 inch/ 330 x 240 x 240 mm | 12 x 12 x 11.8 inch/ 305 x 305 x 300 mm | 12 x 12 x 23.8 inch/ 305 x 305 x 605 mm |
| | | Dual Extruder Print | 10 x 11.8 x 11.8 inch/ 255 x 300 x 300 mm | 10 x 11.8 x 23.8 inch/ 255 x 300 x 605 mm | 11.6 x 9.4 x 9.4 inch/ 295 x 240 x 240 mm | 11.6 x 9.4 x 9.4 inch/ 295 x 240 x 240 mm | 11 x 12 x 11.8 inch/ 280 x 305 x 300 mm | 11 x 12 x 23.8 inch/ 280 x 305 x 605 mm |
| | Machine Size (W x D x H) | 24.4 x 24.6 x 29.9 inch/ 620 x 626 x 760 mm | 24.4 x 24.6 x 43.5 inch/ 620 x 626 x 1105 mm | 23.9 x 23.5 x 18.3 inch/ 607 x 596 x 465 mm | 23.9 x 23.5 x 18.3 inch/ 607 x 596 x 465 mm | 24.4 x 23.2 x 29.9 inch/ 620 x 590 x 760 mm | 24.4 x 23.2 x 43.5 inch/ 620 x 590 x 1105 mm | |
| | Net Weight | 52.5 kg | 61.15 kg | 32.4 kg (Raise3D Filament Dry Box not included) | 35 kg | 50.2 kg | 59.3 kg | |
| | Gross Weight (Carton Only) | 76.6 kg | 87.45 kg | 36.7 kg (Raise3D Filament Dry Box not included) | 41.3 kg | 62.7 kg | 71.8 kg | |
| ELECTRICAL | Power Supply | Input | 100-240 V AC, 50/ 60 Hz 230 V @ 3.3 A | 100-240 V AC, 50/ 60 Hz 230 V @ 3.3 A | 100-240 V AC, 50/ 60 Hz 230 V @ 2 A | 100-240 V AC, 50/ 60 Hz 230 V @ 2 A | 100-240 V AC, 50/ 60 Hz 230 V @ 3.3 A | 100-240 V AC, 50/ 60 Hz 230 V @ 3.3 A |
| | | Output | 24 V DC, 600 W | 24 V DC, 600 W | 24 V DC, 350 W | 24 V DC, 350 W | 24 V DC, 600 W | 24 V DC, 600 W |
| PRINTER | Print Technology | FFF | FFF | FFF | FFF | FFF | FFF | |
| | Print Head System | Dual-head with electronic lifting system | Dual-head with electronic lifting system | IDEX Independent Dual Extruders | IDEX Independent Dual Extruders | Dual-head with electronic lifting system | Dual-head with electronic lifting system | |
| | Filament Diameter | 1.75 mm | 1.75 mm | 1.75 mm | 1.75 mm | 1.75 mm | 1.75 mm | |
| | XYZ Step Size | 0.78125, 0.78125, 0.078125 micron | 0.78125, 0.78125, 0.078125 micron | 0.78125, 0.78125, 0.078125 micron | 0.78125, 0.78125, 0.078125 micron | 0.78125, 0.78125, 0.078125 micron | 0.78125, 0.78125, 0.078125 micron | |
| | Print Head Travel Speed | 30-150 mm/s | 30-150 mm/s | 30-150 mm/s | 30-150 mm/s | 30-150 mm/s | 30-150 mm/s | |
| | Build Plate | Flexible Steel Plate with Buildtak | Flexible Steel Plate with Buildtak | Flexible Steel Plate with Buildtak | Flexible Steel Plate with Buildtak | Heated aluminum build plate with magnetic holding | Heated aluminum build plate with magnetic holding | |
| | Max Build Plate Temperature | 120°C | 120°C | 110°C | 110°C | 110°C | 110°C | |
| | Heated Bed Material | Silicone | Silicone | Silicone | Silicone | Silicone | Silicone | |
| | Build Plate Leveling | Mesh-leveling with Flatness Detection | Mesh-leveling with Flatness Detection | Mesh-leveling with Flatness Detection | Mesh-leveling with Flatness Detection | Pre-calibrated leveling | Pre-calibrated leveling | |
| | Filament Run-out Sensor | Available | Available | Available | Available | Available | Available | |
| | Supported Materials | PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill | PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill | Raise3D Industrial PA12 CF, Raise3D Industrial PA12 CF Support (PPA CF, PPS CF and PET CF Coming soon) | PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill | PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill | PLA/ ABS/ HIPS/ PC/ TPU/ TPE/ PETG/ ASA/ PP/ PVA/ Nylon/ Glass Fiber Infused/ Carbon Fiber Infused/ Metal Fill/ Wood Fill | |
| | Layer Height | 0.01-0.25 mm | 0.01-0.25 mm | 0.1-0.25mm | 0.02-0.25 mm | 0.01-0.25 mm | 0.01-0.25 mm | |
| | Nozzle Diameter | 0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available) | 0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available) | 0.4 mm (Default), 0.6/ 0.8 mm (Available) | 0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available) | 0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available) | 0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available) | |
| | Max Nozzle Temperature | 300°C | 300°C | 300°C | 300°C | 300°C | 300°C | |
| | Connectivity | Wi-Fi, LAN, USB port, Live camera | Wi-Fi, LAN, USB port, Live camera | Wi-Fi, LAN, USB port, Live camera | Wi-Fi, LAN, USB port, Live camera | Wi-Fi, LAN, USB port, Live camera | Wi-Fi, LAN, USB port, Live camera | |
| | Noise Emission (Acoustic) | < 55 dB (A) when building | < 55 dB (A) when building | < 50 dB (A) when building | < 50 dB (A) when building | < 50 dB (A) when building | < 50 dB (A) when building | |
| | Operating Ambient Temperature | 15-30°C, 10-90% RH non-condensing | 15-30°C, 10-90% RH non-condensing | 15-30°C, 10-90% RH non-condensing | 15-30°C, 10-90% RH non-condensing | 15-30°C, 10-90% RH non-condensing | 15-30°C, 10-90% RH non-condensing | |
| | Storage Temperature | -25°C to +55°C, 10-90% RH non-condensing | -25°C to +55°C, 10-90% RH non-condensing | -25°C to +55°C, 10-90% RH non-condensing | -25°C to +55°C, 10-90% RH non-condensing | -25°C to +55°C, 10-90% RH non-condensing | -25°C to +55°C, 10-90% RH non-condensing | |
| | Filter | HEPA filter with activated charcoal | HEPA filter with activated charcoal | HEPA filter with activated charcoal | HEPA filter with activated charcoal | HEPA filter with activated charcoal | HEPA filter with activated charcoal | |
| | Technical Certifications | N/A | N/A | N/A | CB, CE, FCC, RoHS, RCM | CB, CE, FCC, RoHS | CB, CE, FCC, RoHS | |
| Slicing Software | IdeaMaker | IdeaMaker | IdeaMaker | IdeaMaker | IdeaMaker | IdeaMaker | | |
| Supported File Types | STL/ OBJ/ 3MF/ OLTP | STL/ OBJ/ 3MF/ OLTP | STL/ OBJ/ 3MF/ OLTP | STL/ OBJ/ 3MF/ OLTP | STL/ OBJ/ 3MF/ OLTP | STL/ OBJ/ 3MF/ OLTP | | |
| Supported OS | Windows/ macOS/ Linux | Windows/ macOS/ Linux | Windows/ macOS/ Linux | Windows/ macOS/ Linux | Windows/ macOS/ Linux | Windows/ macOS/ Linux | | |
| Machine Code Type | GCODE | GCODE | GCODE | GCODE | GCODE | GCODE | | |
| User Interface | 7-inch Touch Screen | 7-inch Touch Screen | 7-inch Touch Screen | 7-inch Touch Screen | 7-inch Touch Screen | 7-inch Touch Screen | | |
| Network | Wi-Fi, Ethernet | Wi-Fi, Ethernet | Wi-Fi, Ethernet | Wi-Fi, Ethernet | Wi-Fi, Ethernet | Wi-Fi, Ethernet | | |
| Power Loss Recovery | Available | Available | Available | Available | Available | Available | | |
| Screen Resolution | 1024 x 600 | 1024 x 600 | 1024 x 600 | 1024 x 600 | 1024 x 600 | 1024 x 600 | | |
| Logic Controller | NXP ARM Cortex-A9 Quad 1 GHz | NXP ARM Cortex-A9 Quad 1 GHz | NXP ARM Cortex-A9 Quad 1 GHz | NXP ARM Cortex-A9 Quad 1 GHz | NXP ARM Cortex-A9 Quad 1 GHz | NXP LMX6, Quad core 1 GHz ARM processor | | |
| Memory | 1 GB | 1 GB | 1 GB | 1 GB | 1 GB | 1 GB | | |
| Onboard Flash | 8 GB | 8 GB | 8 GB | 8 GB | 8 GB | 8 GB | | |
| OS | Embedded Linux | Embedded Linux | Embedded Linux | Embedded Linux | Embedded Linux | Embedded Linux | | |
| Ports | USB 2.0 x 2, Ethernet x 1 | USB 2.0 x 2, Ethernet x 1 | USB 2.0 x 2, Ethernet x 1 | USB 2.0 x 2, Ethernet x 1 | USB 2.0 x 2, Ethernet x 1 | USB 2.0 x 2, Ethernet x 1 | | |

*RED is the difference