

# Raise3D Pro2 Plus Technical Specifications

| ITEM                     | Pro2 Plus                                     |   |                                   |
|--------------------------|---|---|-----------------------------------|
| CONSTRUCTION             | Build Volume (WxDxH)                          |   |                                   |
|                          | Single Extrusion Print                        | Dual Extrusion Print  |                                   |
|                          | 12×12×23.8 in<br>305×305×605 mm               | 11×12×23.8 in<br>280×305×605 mm   |                                   |
|                          | Machine Size (WxDxH)                          |   |                                   |
|                          | 24.4×23.2×43.5 in / 620×590×1105 mm           |   |                                   |
| WEIGHT                   | Net Weight                                    | Gross Weight (Carton Only)  | Gross Weight (Carton with Pallet) |
|                          | 59.3 Kg                                       | 71.8 Kg   | 79.6 Kg                           |
| 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   |                                   |
|                          | XY Step Size                                  | 0.78125, 0.78125, 0.078125 micron   |                                   |
|                          | Z Step Size                                   | 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 °C to +55 °C, 10 - 90 % RH non-condensing |   |                                   |
| Technical Certifications | CB, CE, FCC, RoHS                             |   |                                   |
| 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.<br>Protection from any condition  |                                   |
|                          | Screen Resolution                             | 1024×600  |                                   |
|                          | Motion Controller                             | ARM Cortex M7.400MHZ FPU  |                                   |
|                          | Logic Controller                              | Freescale i.MX6, Quad core 1Ghz ARM processor   |                                   |
|                          | Memory  | 1 GB  |                                   |
|                          | Onboard Flash                                 | 8 GB  |                                   |
|                          | OS  | Embedded Linux  |                                   |
|                          | Ports   | USB 2.0×2, Ethernet×1   |                                   |