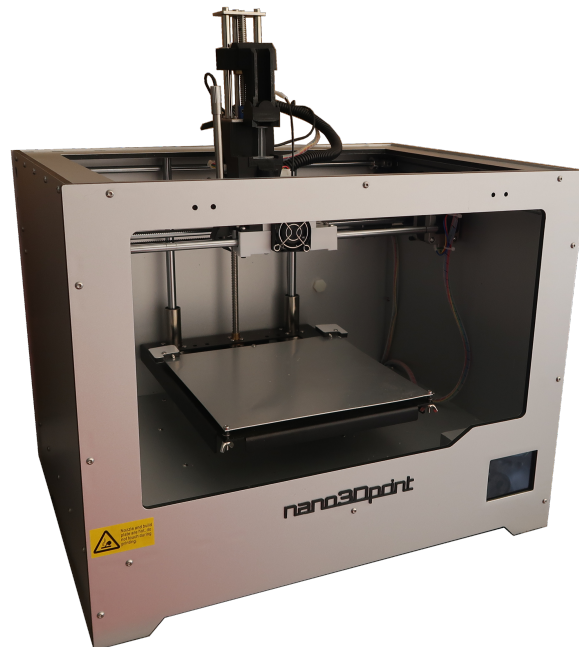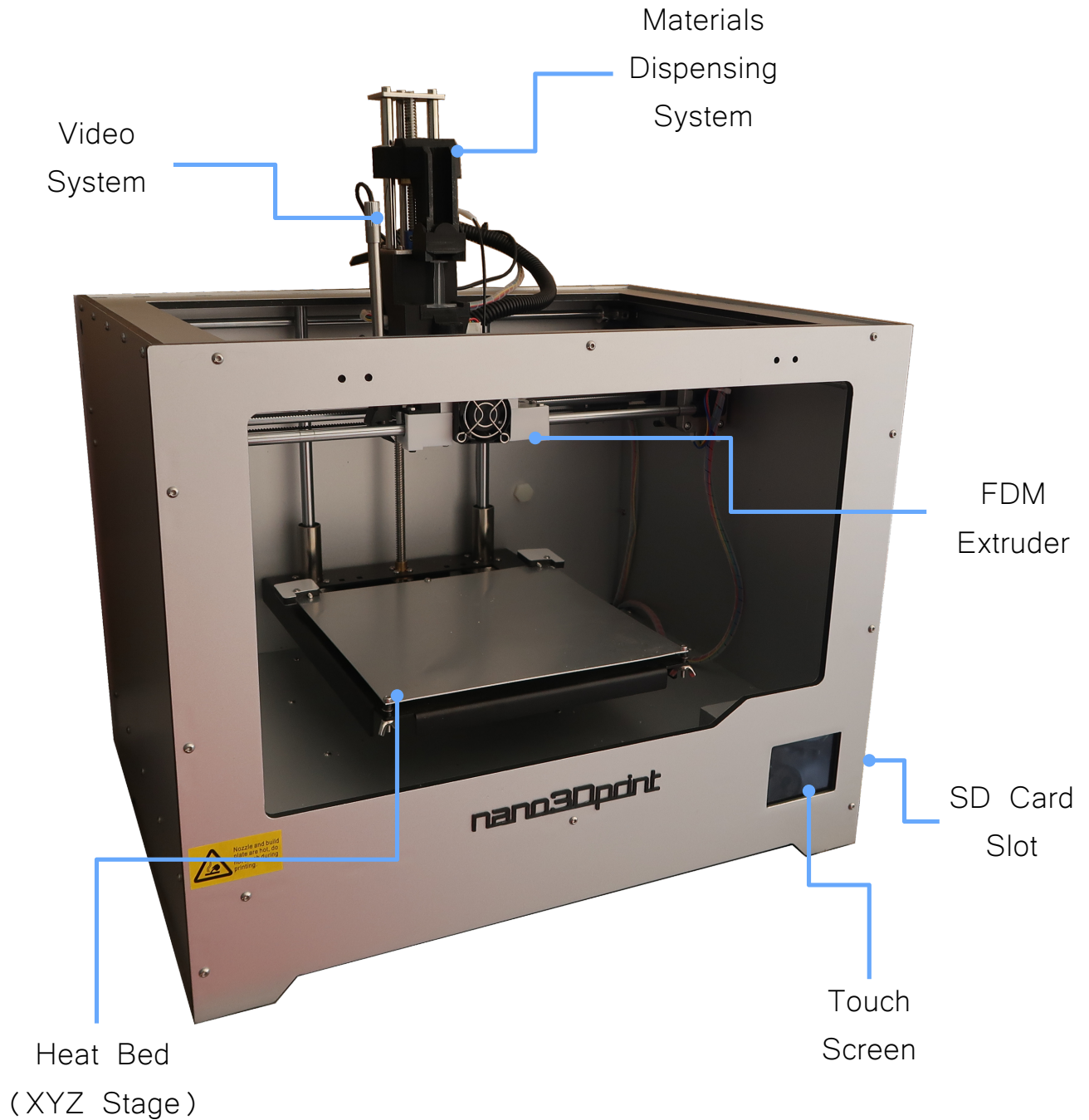# A-Line System Data Sheet

The A2200 is a 3D multimaterials printer for printed electronics enhanced with added features that make using functional materials easy. Print PLA, ABS, and high performance FD materials such as PEEK* and PPSU*. The high precision, ultra reliable positive displacement dispenser print head is capable of precisely metering functional inks with a wide range of viscosities. Engineered for prototyping of 3D printed electronics by printing of thermoplastics in conjunction with functional inks such as high conductive silver ink. Simple, reliable and easy to use, the A2200 is a highly versatile multimaterials 3D electronics printer with performance that rivals systems that cost 10x, even 100x more. 3D electronics printing for all, try the A2200 now.



*PEEK and PPSU filament printing requires upgraded A2200
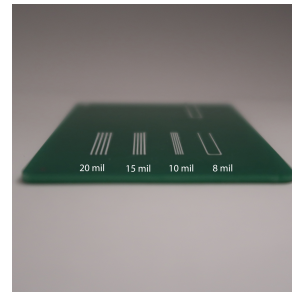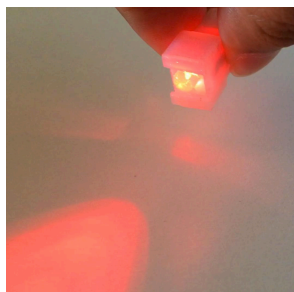
**1**

# A2200 Multimaterials 3D Printer

Materials Dispensing System

Video System

FDM Extruder

SD Card Slot

Touch Screen

Heat Bed （XYZ Stage）

nano3Dprint

Nozzle and build plate are hot, do not touch during printing

**2**

# Features

Side-by-side precision filament extruder and enhanced materials dispensing system, in a familiar form factor and desktop sized making it very user friendly. The A2200 has a proprietary materials dispensing system to handle functional inks and pastes. Load your functional material of choice with ease while printing electronics.

| | |
|---|---|
| Accuracy & Precision Control | The A2200 features a real-time magnifying video inspection system for more precise adjustment control of our dispensing system. A2200 also boasts its accuracy in layer height, surface finishing, tolerance, and roundness for standard 3D printing. |
| Hybrid Materials / Electronics | Independent vertical movement between extruder and dispensing nozzle with independent digital control let's you print on any size, shape, or type of substrate. |
| Continuous Printing | A2200 can handle power failures/cut-offs. Once restarted, it will continue printing where it left off after the power cut-off.  A2200 can also detect when the filament is about to run out. Once refilled, it will continue printing where it left off. No need to worry. |
| Simple To Use | A2200 is simple to use. Aside from controlling it with your computer, you can also control it from your smartphone or the full-color touch screen. It is compatible with WIFI, USB, SD card, and U disk for direct printing. |
| Software | Works with your preferred CAD and slicing software. We recommend Repetier and Simplify3D. |



**3**

# Specifications

| FEATURES | |
|---|---|
| Extrusion | Single 1.75mm FDM (Extruder 1) side-by-side with Materials Dispensing System (Extruder 2) |
| FDM Material Support | PLA, ABS, PETG, POM, Red Bronze, Wood, Nylon (PA), PC, Conductive filament, Carbon Fiber filament, Dissolvable filament (PVA, HIPS), Flexible filament (TPU, PLA+), Moldlay (cartable filament), and much more… |
| Materials Dispensing System Material Support | Functional Pastes and Inks, Conductive Paints, Fast Drying Solvent Based Inks, Silver Nano-Particle Inks, Graphene solutions, and much more… |
| Continue Printing After Power Cut | Yes |
| Filament Run-Out Detection | Yes |
| Connectivity | Direct print with SD card using full-color touch screen (recommended); USB connect to PC |

**4**

# Specifications

| SOFTWARE | |
|---|---|
| Compatible with | Simplify3D (license included), Repetier-Host, Cura, Makerware, etc. |
| File Format | STL, GCODE, OBJ, DAE, AMF, BMP, JPG, JPEG, PNG |
| Operating System | Windows, Mac, Linux |
| **BUILD** | |
| Stage Dimensions | 214 x 186 x 160 (mm) 8.4 x 7.3 x 6.3 (in) |
| Stage Material | Removable Glass Heated Bed |
| Printing Layer Height | ≥ 0.02mm |
| Positional Accuracy | XY axis: 0.11mm Z axis: 0.0025mm |
| Nozzle Diameter | 0.4mm |
| Max. Nozzle Flow Rate | 24cc/hour |
| Max. Axis Moving Speed | 350mm/s |
| Max. Nozzle Temperature | 270 °C |
| Max. Heat Bed Temperature | 100 °C |
| Machine Dimensions | 467 x 357 x 374mm |
| Machine Weight | 13 kg (28.66 lbs) |

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# Simplify3D® Software

Simplify3D® professional 3D printing software

nano3Dprint and Simplify3D® Software – a powerful combination for a fast start-up and optimal 3D print quality.

Improve your print quality with the most powerful 3D printing software available. Simplify3D® provides complete control over your print settings, making it easier than ever to create high-quality 3D prints. Start up quickly with pre-configured settings optimized for nano3Dprint, review a simulation of your build sequence in the Preview Mode, and begin your 3D print with confidence. Total control means amazing 3D prints!



**6**

Visit our website for more information:

**www.nano3Dprint.com**

Contact us at

# info@nano3Dprint.com