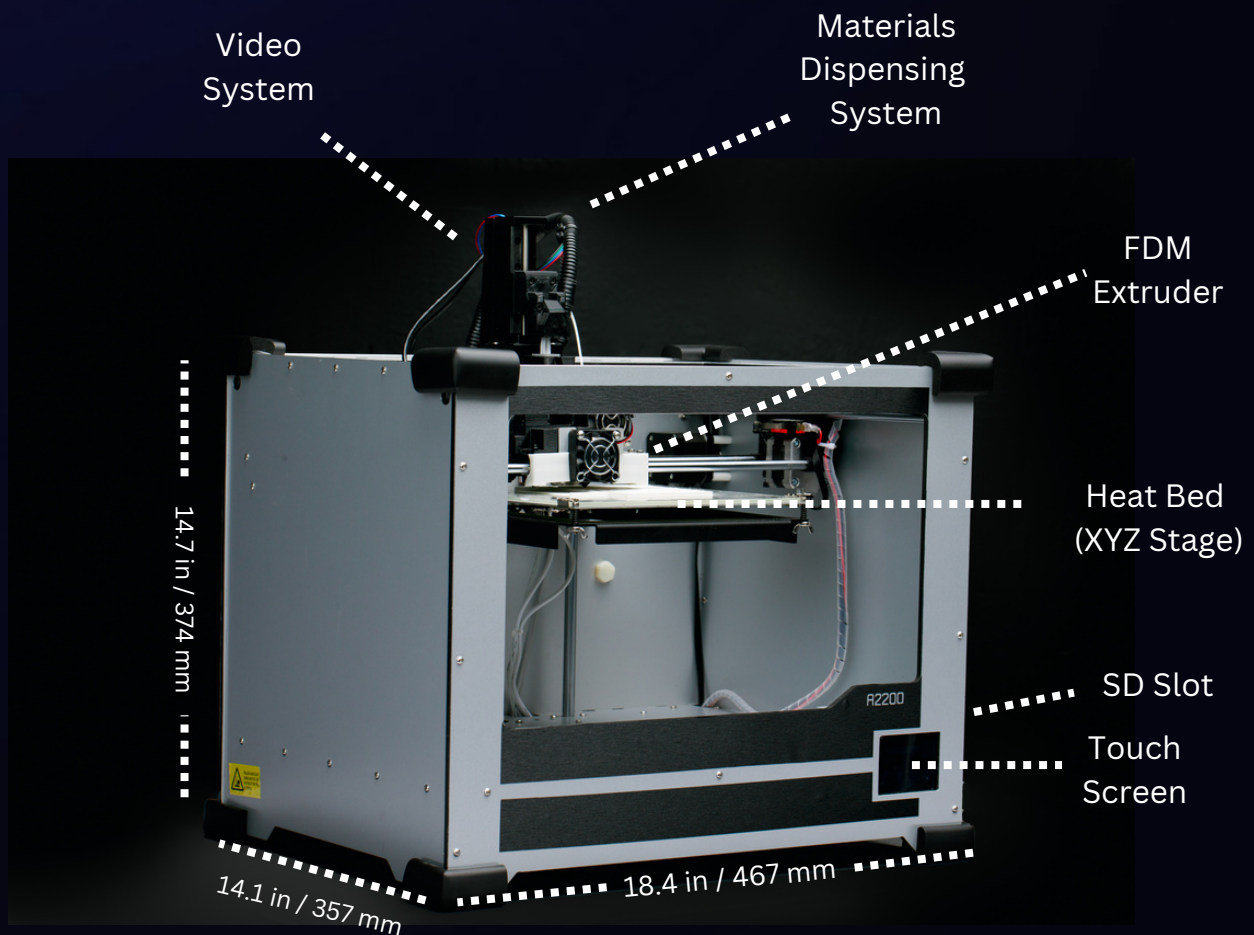# nano3Dprint

A2200 3D Multi-material Electronics Printer Datasheet

Easily print electronics with the A2200 3D multi-materials printer. This versatile, reliable, and user-friendly printer is desktop-sized and features a proprietary materials dispensing system to handle functional inks and pastes. It has a side-by-side precision filament extruder and enhanced materials dispensing system that prints Fused Deposition Modelling (FDM) materials (ABS, PLA, etc.) next to functional inks and pastes (Au, Ag, Cu etc.).

The high-precision, ultra reliable positive displacement print head is capable of precisely metering functional inks with viscosities ranging from 1mPa·s to 54000 mPa·s. The A2200 can print with inks and pastes down to 8 mils (0.20mm) trace width.

Video System · Materials Dispensing System · FDM Extruder · Heat Bed (XYZ Stage) · SD Slot · Touch Screen · 14.7 in / 374 mm · 14.1 in / 357 mm · 18.4 in / 467 mm

A2200 Specifications

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FEATURES

Extrusion/Dispensing	Single 1.75 mm FDM (Extrusion Position 1) side-by-side with Materials Dispensing System (Dispensing Position 2)
Continue Printing After Power Cut	Yes
Filament Run-Out Detection	Yes
Connectivity	Direct print with SD card using full-color touch screen (recommended); Flash Drive

MATERIALS DISPENSING SYSTEM

Syringe Size	3 ml
Nozzle Size	14 to 30 Ga (1.6 mm to 150 µm) Higher Resolution Available: 32 Ga, 34 Ga
Materials Support	Functional Pastes and Inks, Conductive Paints, Fast Drying Solvent Based Inks, Silver Nano-Particle Inks, Graphene solutions, and much more...

FDM EXTRUDER

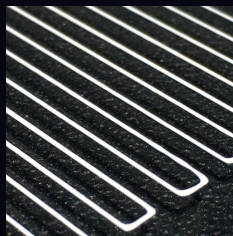|	
Extruder Size	0.4 mm (1.75 mm filament)
Materials Support	PLA, ABS, PETG, POM, Red Bronze, Nylon (PA), PC, Conductive filament, Carbon Fiber filament, Dissolvable filament (PVA, HIPS), Flexible filament (TPU, PLA+), Moldlay(cartable filament), and much more...

SOFTWARE

Compatible with	Simplify3D, Repetier-Host, Cura, Makerware, etc.
File Format	STL, GCODE, OBJ, DAE, AMF,BMP, JPG, JPEG, PNG
Operating System	Windows, Mac, Linux

BUILD

Build Volume	214 x 186 x 160 (mm) 8.4 x 7.3 x 6.3 (in)
Stage Material	Removable Glass Heated
Printing Layer Height	Bed ≥ 0.02 mm
Positional Accuracy	XY axis: 0.11 mm Z axis: 0.0025 mm
Nozzle Diameter	0.4 mm
Max. Nozzle Flow Rate	24 cc/hour
Max. Axis Moving Speed	350 mm/s
Max. Nozzle Temperature	270°C
Max. Heat Bed Temperature	100°C
Machine Dimensions	467 x 357 x 374 mm
Machine Weight	13 kg (28.66 lbs.)

Miniature Flashlight

Line Sensor Array on Glass

Silver Nanoparticle Ink on Polyester (PET) Film

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