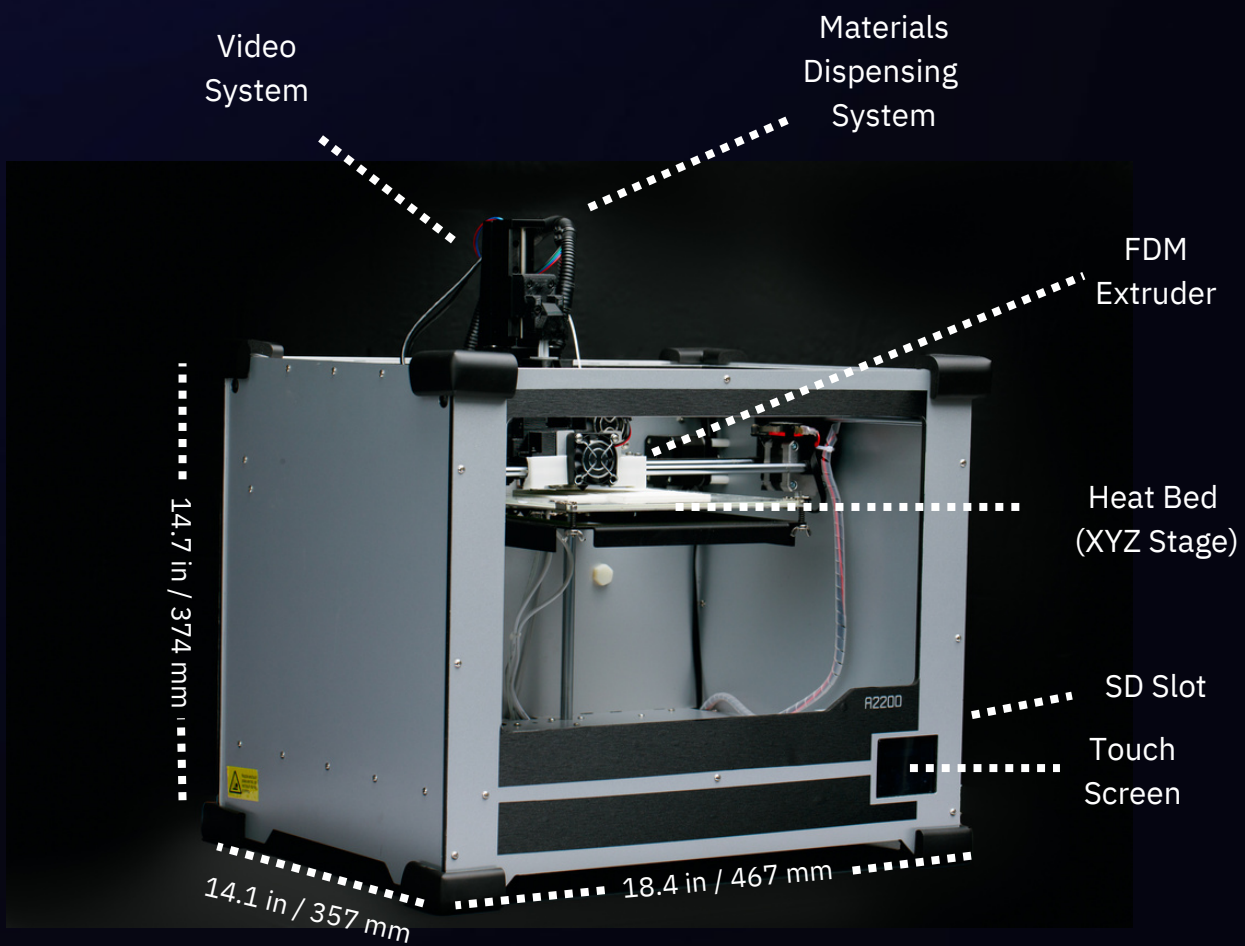
nano3Dprint

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 and space width. The tolerance is ± 5% (for example, ±10 µm at 8 mils over a 5 cm trace length). Our direct-write technology allows you to achieve accuracy in layer height, surface finishing, tolerance, and roundness.



info@nano3Dprint.com · nano3Dprint.com · tel: +1 650.762.6677

A2200 Specifications

nano3Dprint

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...

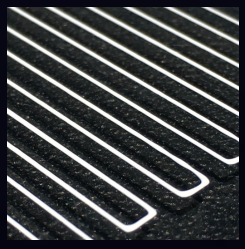
FDM EXTRUDER	
Extruder Size	0.4 mm (1.75 mm filament)
Materials Support	PLA, ABS, PETG, POM, Red Bronze, Nylon (PA), PC, Conductive filament, Carbon Fiber filament, Dissolvable filament (PVA, HIPS), Flexible filament (TPU, PLA+), Moldlay (cartable filament), and much more...

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 Bed
Printing Layer Height	0.05-0.3mm
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

info@nano3Dprint.com · nano3Dprint.com · tel: +1 650.762.6677