

# VOLTERA NOVA

## Additive Electronics Evolved

Create smart devices on your benchtop with Voltera's next generation printing platform.

Dispense high resolution features down to 100  $\mu\text{m}$  tracewidth\*.

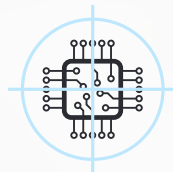
Accelerate your workflows with intelligent calibration and alignment.

Configure for your needs with quick-swap modules and work area.



### PRESSURE-FEEDBACK DISPENSING

Precision printing with realtime closed-loop pressure feedback, no tooling or screens required.



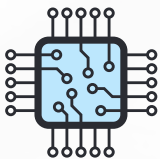
### INTEGRATED VISION SYSTEM

Align, print, and inspect with confidence using machine vision and AR overlay print preview.



### MATERIALS FREEDOM

Print anything on everything: simply fill an EFD cartridge and attach any luer-lock nozzle.



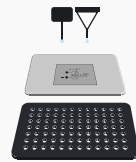
### FLEXIBLE OR RIGID MOUNTING

Print on nearly any substrate with an 8"x11" titanium vacuum table and threaded mounting grid.



### SOFTWARE FOR EVERYONE

Browser-based app and network connectivity (WiFi, Ethernet) for a modern user experience.



### MODULAR PLATFORM

Built to expand, with 2 module ports, quick-change module swapping, drop-in fixturing, and ethernet/USB/WiFi connectivity.

Contact Voltera's [Matthew Ewertowski](#) for more information.

\*Pre-release specifications are estimates and subject to change



# The NOVA Specifications

## NOVA PLATFORM SPEC

Size	675mm x 605mm x 345 mm (26.6" x 23.8" x 13.6")
Weight	35 kg (77 lbs)
Print area	220 mm x 300 mm (8.7" x 11.8")
Power requirements	350W @120VAC/240VAC (120V/60Hz, 230V/50Hz)
Communication/connectivity	1-USB-A 2.0, 1-USB-A 3.0, Ethernet, WiFi
Step resolution	2.5µm (X) x 7µm (Y) x 1.25µm (Z)
XY tool-tool positional accuracy	+/- 15µm
File formats	Gerber
Interface	Browser-based web app
Camera resolution	17µm/pixel
Tool slots	Two

## MOUNTING OPTIONS

Custom fixturing	M5 threads, 40mm square grid, 6mm depth
Vacuum module	Porous titanium work area, integrated pump

## SHIPPING DETAILS

Pallet dimensions	29 ¾" x 27 ½"
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## SMART DISPENSER

Max pressure	70 PSI
Max temperature	40°C
Syringe size	5cc
Maximum syringe fill capacity	3cc
Nozzle geometry	Luer lock, < 30mm length
Particle size	Nozzle dependent. <25µm for standard 150µm nozzle.

## PRECISION TOUCH PROBE

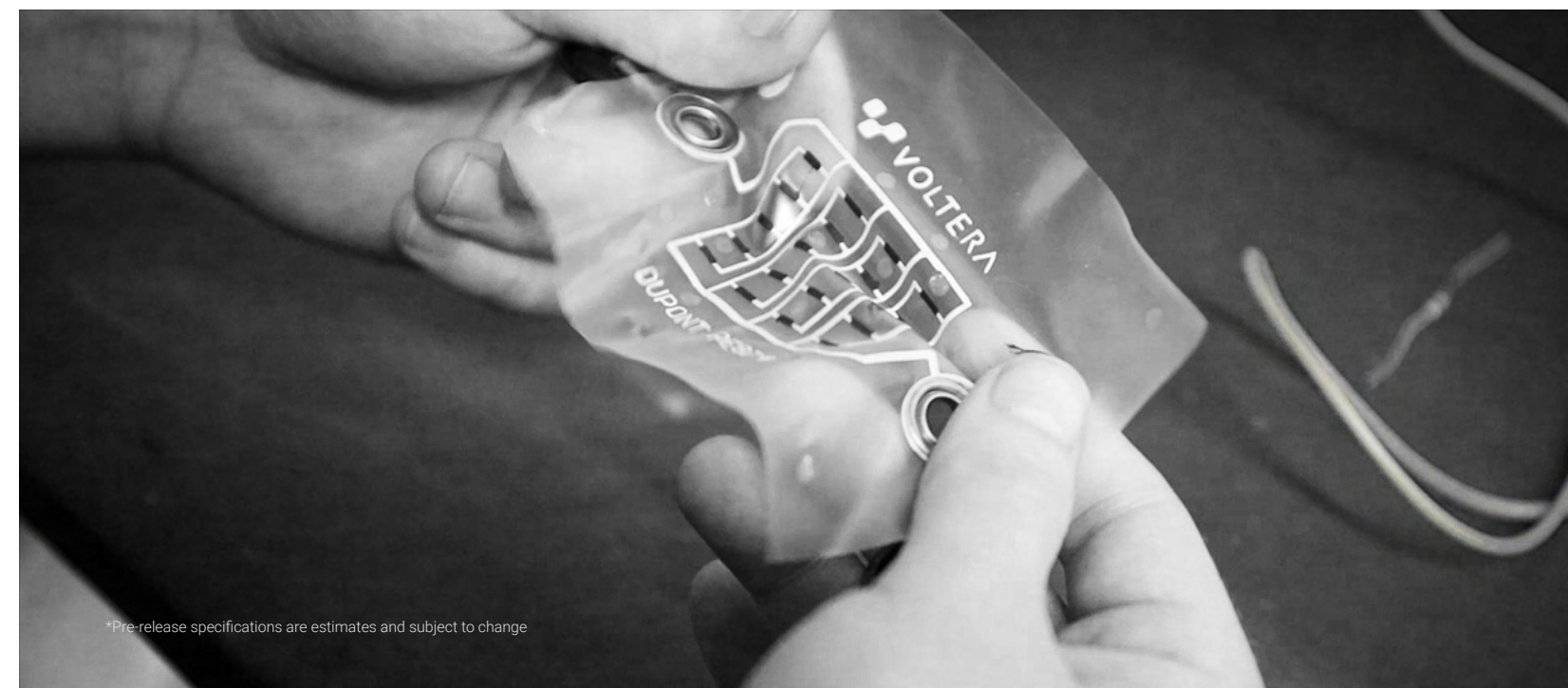
Measurement resolution	+/- 2.5µm (Z-axis step resolution)
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## PERFORMANCE SPEC

Minimum tracewidth	*100µm (0.10mm) using ACI FE3124 + 100µm nozzle
Print height resolution	+/- 10µm (0.01 mm)
Minimum pin pitch	400µm (0.4mm)
Minimum passive	0201* Imperial

## SUPPLIED MATERIALS AT LAUNCH

Inks	ACI FE3124
Substrates	PET, Kapton
Solder pastes	Nordson T4 SnBiAg0.4



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