

ElectroUV3D™



UV LED Flatbed Tabletop Electronics Inkjet Printer



Print Quality Capabilities

Micron-scale conductive trace features

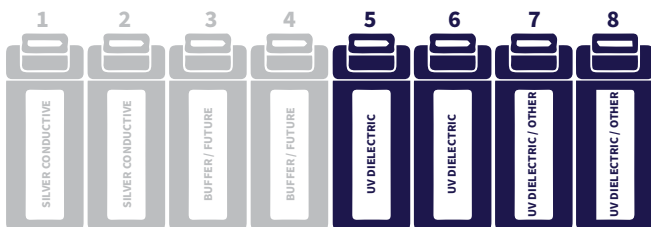
200µm **100µm** **50µm**

Trace Gaps

Trace Widths

Stand-Alone
Trace Widths

8-CHANNEL INK CAPACITY



DUAL CURING SYSTEMS



Key Features



Independent Control

Capacity to independently control 3D or flat prints with strong adhesion to multiple substrates.



Exceptional Print Quality

Precision Dot Control™ provides industry-leading print quality with y-axis absolute positioning accuracy and repeatability.



Easy Layering Process

Easy layering process for space-saving on multi-layer components with complete height adjustability catering to substrates up to 6”.



Production Ready

Print any combination of the print head channels simultaneously with in-line LED UV curing and low-temperature sintering in a single pass.

Multi-Materials Capabilities

This system enables the digital printing of silver conductive inks and UV-curable dielectric insulating/building inks. It features inline LED UV curing for dielectric insulating inks and inline heat sintering for silver conductive inks. With a 1440 dpi resolution and an 8-channel inkjet head, it allows for simultaneous multi-material, multi-layer printing of electronic circuits and components.

Operation:

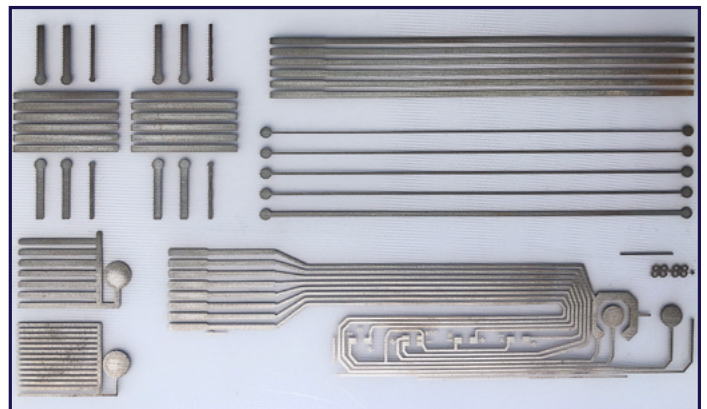
IMAGING PROCESS:	On-demand inkjet (Micro Piezo) 8-channel head with 180 nozzles/ inch/channel
RESOLUTION:	Draft Modes 1: 360 x 360, 720 x 360, 720 x 720 dpi Production Modes 2: 1440 x 720, 1440 x 1440, 2880 x 1440, 5760 x 1440 dpi
LIQUID DROPLET SIZE (min/max):	1.5 picolitres / 21 picolitres
MATERIALS:	Conductive, dielectric, support, and insulating materials
LIQUID DELIVERY SYSTEM:	Refillable 14ml Cartridges (Bulk Liquid System option available)
PRINT SPEED³:	1:10 to produce a bi-directional 8" x 10" (203mm x 254mm) image at 1440 x 720 dpi/High Speed 3:06 to produce a bi-directional 10" x 24" (254mm x 610mm) image at 1440 x 720 dpi/High Speed
Y-AXIS ABSOLUTE POSITIONING ACCURACY AND REPEATABILITY⁴:	±0.038mm // ±0.0015"4
PRINT DIRECTION:	Uni- and bi-directional
MAXIMUM PRINTABLE AREA:	304.8mm x 609.6mm // 12" x 24" for all standard print modes
MAXIMUM SUBSTRATE SIZE:	330.2mm x 660.4mm // 13" x 26"
MAXIMUM SUBSTRATE WEIGHT:	4.5 kg (10 lb.) Optional heavy- duty Direct Drive Stepper Module increases maximum substrate weight to 13.6 kg (30 lb.)
Z-AXIS (DEPTH/ THICKNESS CONTROL):	0cm to 15cm (6") - A 0cm-38cm (15") option is available Fully adjustable with automatic LED sensing technology
MEDIA:	Prints to a variety of substrates
RIP:	Color Byte RIP 10 Software allows input from Photoshop®, Illustrator®, CorelDRAW®, and ColorByte
OPERATING SYSTEM:	Windows 7 or higher (32 & 64 bit)
EMBEDDED CURING:	UV and Thermal

Environmental & Physical:

CONTROL PANEL:	89mm (3.5") Color LCD Touch Screen Display
INTERFACE:	Hi-Speed USB 2.0
SYSTEM MINIMUM REQUIREMENTS:	CPU of > 3GHz, 8GB RAM, 100 GB free hard disk space and 4 available USB 2.0 ports
POWER SOURCE:	100-240 VAC, 50-60 Hz., 4 A auto switching
OPERATING TEMPERATURE:	18°C – 27°C (60°F – 80°F)
HUMIDITY:	Non-condensing 30%-70%
DIMENSIONS:	Varies by model, range includes: Depth 31.8" (806.7mm) x Height 25.5" (647mm) x Width 48.8" (1239.4mm) Height of 40.8" (1036mm) when the cover is fully opened. Depth 31.8" (806.7mm) x Height 33.9" (861mm) x Width 48.8" (1239.4mm) The front cover is removed for service accessibility.
WEIGHT:	Varies by model. Weights range from 100 kg (220 lb.) to 109 kg (240 lb.)

Warranty:

PRINTER:	1-year limited warranty
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