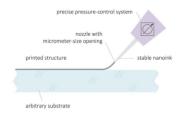


XTPL® Delta Printing System

First truly additive method for printing conductive single micron lines

DEVICE DETAILS

ITEM	VALUE
Feature size	down to 1 µm
Material viscosity	up to 1 000 000 cP
Substrate alignment	3-point leveling table with rotation error correction
Substrate size	50 mm x 50 mm
Maximum printing speed	10 mm/s
Process preview	Live video with recording
XY motor movement accuracy / repetability	2 μm / 0.5 μm
Z motor movement accuracy / repeatability	0.5 μm / 0.5 μm
Printer cabinet dimensions (excluding peripherals and Printing Workstation)	800 mm x 800 mm x 890 mm
Printer weight	135 kg
Utilities required	compressed gas 10 bar,



XTPL® ULTRA-PRECISE DEPOSITION

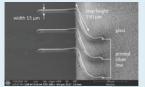
- Pressure-based direct writing
- Tailored high-viscosity inks
- Ultra-narrow flexible nozzle
- Purely additive
- No electric field required

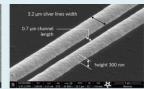


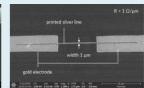
德芮達科技股份有限公司

DETEKT Technology Inc. Additive Manufacturing Expe

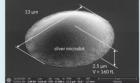
23675 新北市土 城 區中 央 路 四 段51號4樓之 3 TEL:(02)2267-3158 | FAX:(02)2267-2058 Http://www.detekt.com.tw | info@detekt.com.tw High-precision microdispensing system for rapid prototyping of microelectronics, advanced IC packaging, MEMS, microwave, RF components, FPD etc.







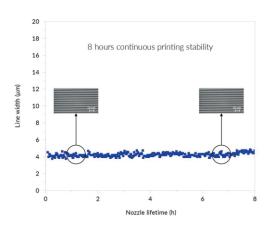


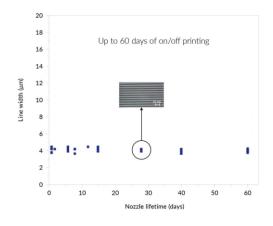


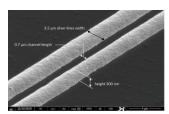


SUPERIOR PRINTING PROCESS STABILITY

The users of XTPL Printing System benefit from a demonstrated best-in-class printing stability: sustained 1 day of continuous printing, and up to 60 days of on and off printing with XTPL CL85 conductive Silver nanopaste.







INTERLINE DISTANCE

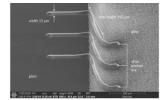
high-density without short defects

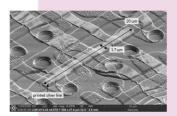
printed electronic devices, e.g., transistors, high-frequency RF applications, sensors, RDL (redistribution layers), high density interconnections

HIGH STEP COVERAGE

cover complex substrate topographies with steps of up to a few hundred µm with continuous silver printed lines

flexible hybrid microelectronics micro-LED displays, 2.5/3D interconnections in advanced IC packaging, 3D printed (micro



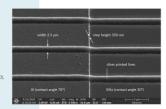


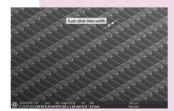
OPEN DEFECT REPAIR FOR OLED

deposit down to 1 µm lines over complex and heterogeneous substrate topographies

HETEROGENEUS **SUBSTRATES**

print lines with homogeneous width on materials with different wettability, e.g. Al and SiN, MEMS and semiconductors

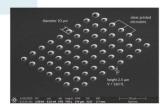


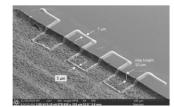


ARRAY OF S/D METAL LAYER FOR PRINTED FPD

power/ground supply networks for printed electronics, TFT array prototyping, RDL (redistribution layers) for advanced IC packaging

PRINTED CONDUCTIVE MICRODOTS





HIGH-RESOLUTION CONDUCTIVE CONNECTIONS PRINTED OVER THE STEP

print highly adhesive and conductive structures over complex topographies with varying surface roughness (microelectronics, MEMS

FINE PRINTED LINES AND MESHES

large area microelectronics, displays (TE-OLED), transpar

