

## See your future in our Direct Write Exposure Solution

Direct Write Exposure Sytems



Ushio's DE-2 and DE-8



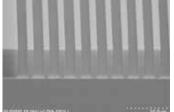


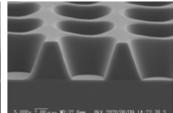


DE-2 2µm L/S Direct Write Exposure System

DE-2 W300 for 300mm (12") Wafer DE-2 P600 for 600 × 600mm Panel December 2021 Debut

- Maskless Direct Imaging for Fan-Out WLP & PLP and High ٠ **Precision Packaging**
- Minimum Line/Space = 2/2µm imaging capability
- Overlay accuracy  $\leq 1 \mu m$
- Optional Deca's Adaptive Patterning <sup>™</sup> connectivity





L/S 2/2µm Liquid Photo-sensitive Resist 7µm thick

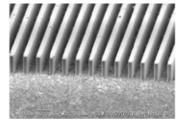
Via opening 5µm dia. 10µm Pitch Liquid Photo-sensitive Polyimide 7µm thick



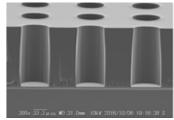
## DE-8 Direct Write Exposure System for FO-WLP/PLP

DE-8 W300 for 300mm (12") Wafer DE-8 P600 for 600 x 600mm Panel

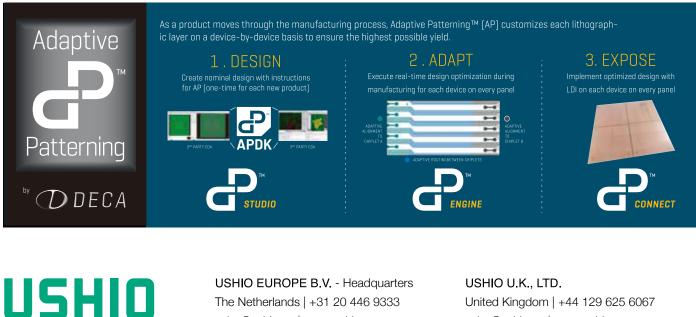
- Maskless Direct Imaging for FAN-OUT WLP & PLP
- Minimum Line/Space = 8/8µm imaging capability
- Overlay accuracy  $\leq 7 \mu m$
- Optional Deca's Adaptive Patterning <sup>™</sup> connectivity



L/S 5/5µm Dry Film Resist 15µm thick



Opening 70µm dia. 140µm Pitch Dry Film Resist 160µm thick





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