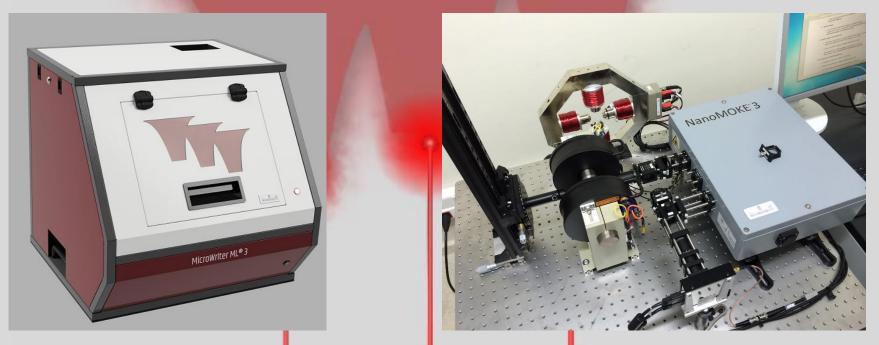
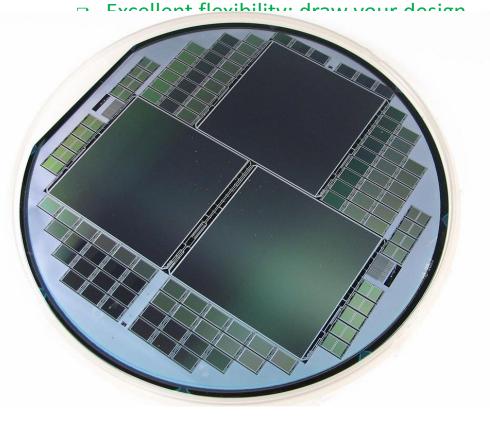


Direct-write optical lithography: a fast and flexible way to make microstructures



Dr Anthony Beguivin, Durham Magneto Optics Ltd

- Poor flexibility: need to manufacture a new mask for each design
- Not easy to perform greyscale exposures: most masks are either "on" or "off"
- □ Wafer size: typically up to 4"-8"
- Low end machines aren't fully automated and require manual adjustment
- High throughput: good choice for high volume manufacturing

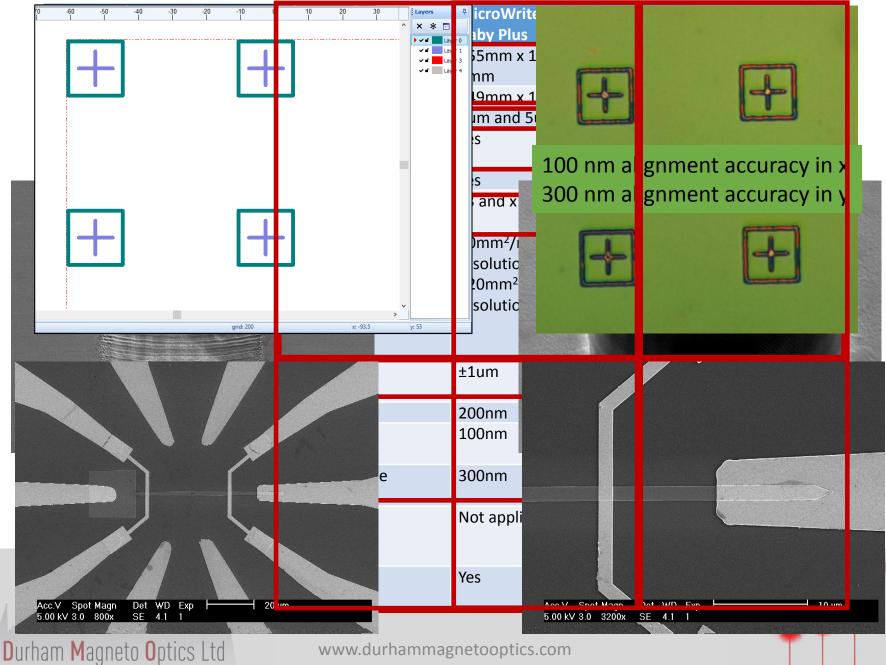


Optical lithography using a mask aligner

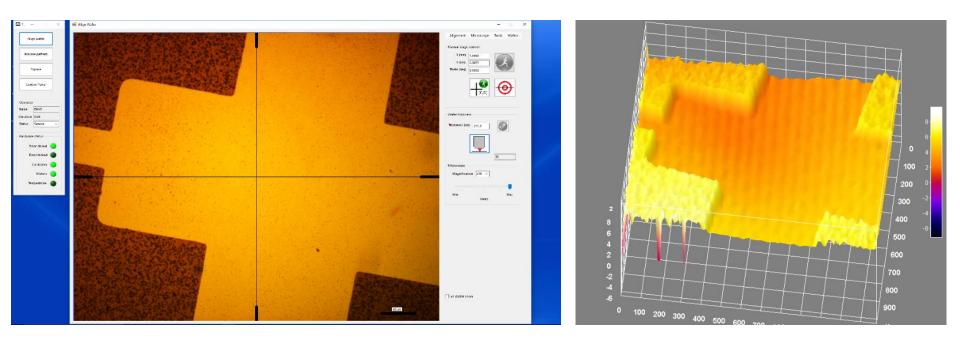
Optical lithography using MicroWriter ML®3





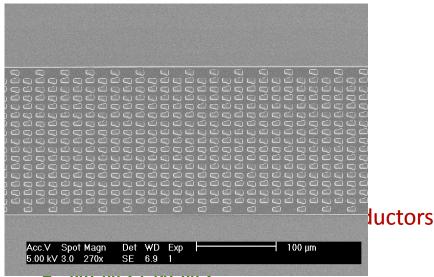


MicroWriter ML[®]3: Photolithograpy system and optical surface profiler

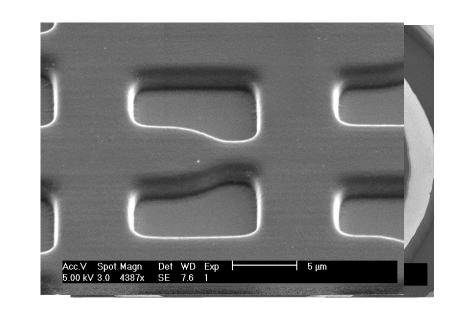


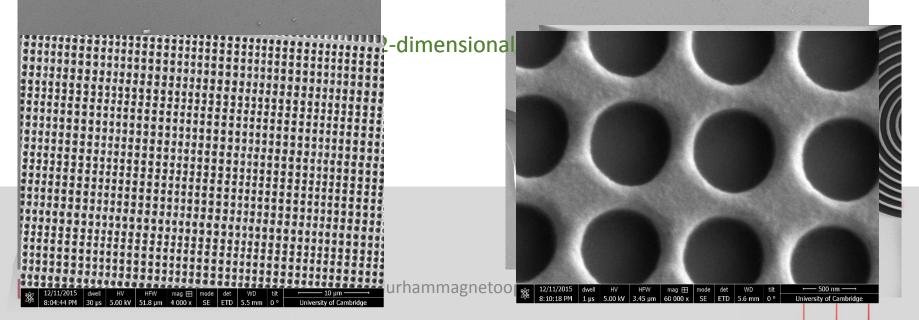
	MicroWriter ML [®] 3 Baby	MicroWriter ML [®] 3 Baby Plus	MicroWriter ML [®] 3
Optical surface profiler Z resolution	Not applicable	300nm	100nm





- IVILIVIS / IVLIVIS
- Sensors
- Microfluidics and lab-on-a-chip
- Nanotechnology





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