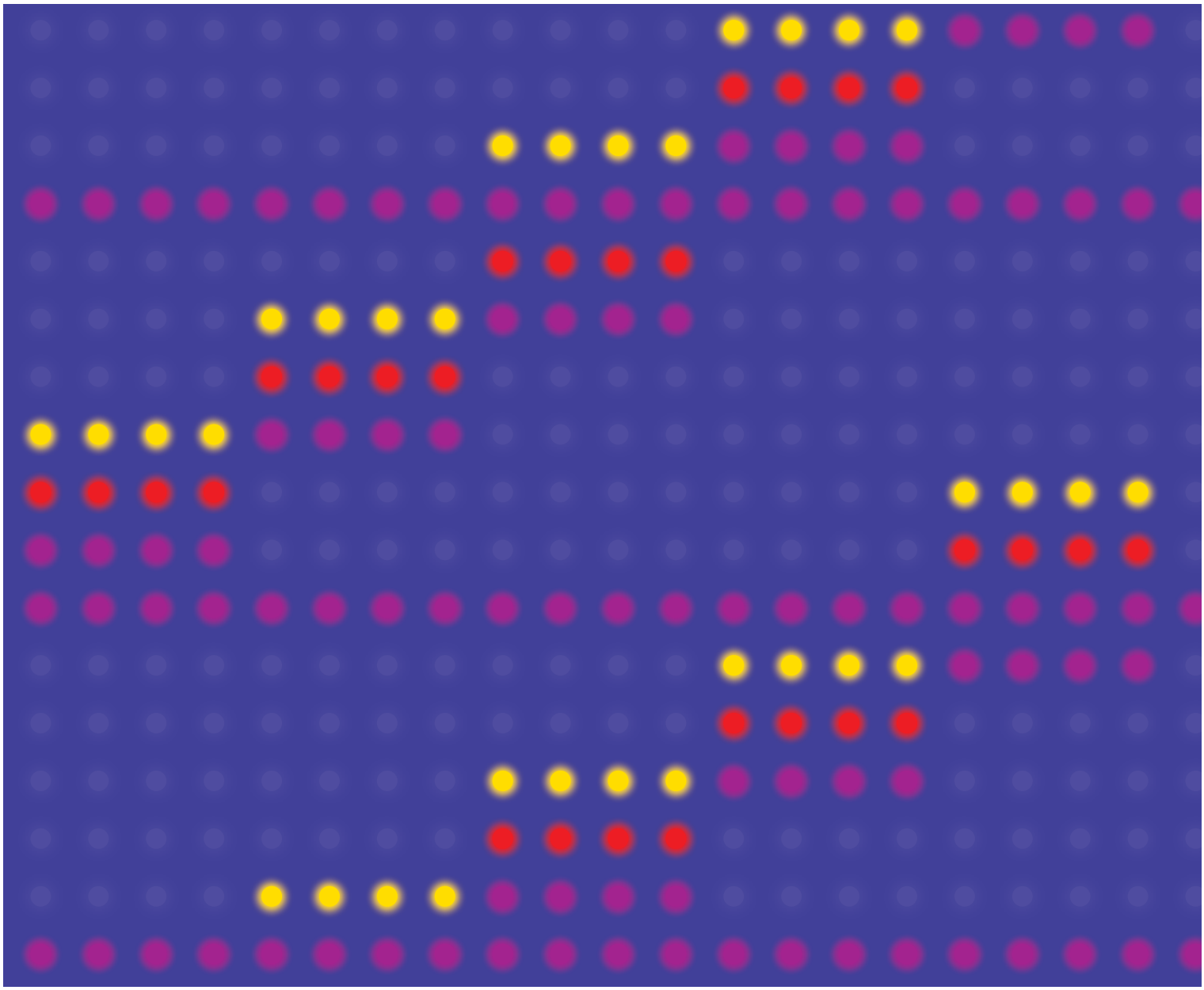
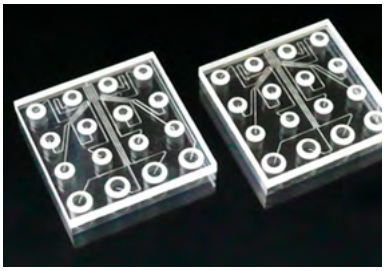
PRECISION ON GLASS

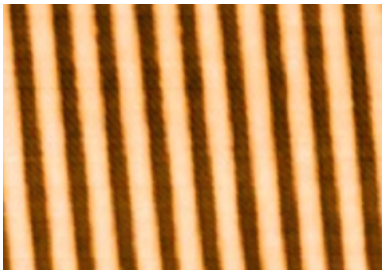
Glass Components for Life Science

Optical and conductive microstructures on and in Glass for Biosensors, Flow Cells, Micro-fluidic and Lab-on-chip Components

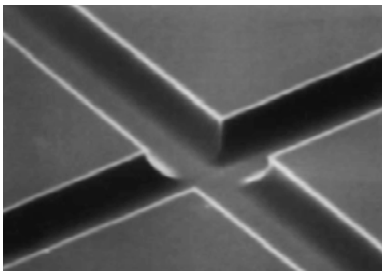




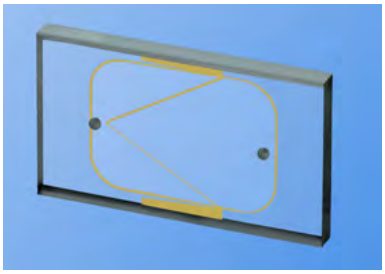
Glass chip 17.5 mm x 17.5 mm



320 nm grating (AFM picture)



Etched microchannel (SEM picture)



Glass chip with integrated electrodes

Applications

- Biosensors
- Flow cells
- Micro-fluidics
- Lab-on-a-chip
- Sequencing
- Screening
- Diagnostics
- Analysis
- Detection
- Microscopy
- Imaging

Benefits

- All processes in-house
- Wafer-level manufacturing
- Cost-effective large scale manufacture

Technical Data

- Microstructures on and in glass
- Feature sizes down to 150 nm
- Structured optical & conductive coatings
- Lift-off, wet-etch and plasma etch
- Cementing and bonding
- Glass machining (drilling, dicing)
- Sub-assembly in clean room environment
- Microchannels, through-holes
- Waveguides with gratings
- Optical and metallic coatings
- sub-µm wells in glass
- Diffraction gratings
- Mirrors
- Optical filters
- Electrodes

About IMT

- Foundry for optical, electrical and micro-fluidic structures and components
- Fast prototyping through in-house mask manufacture
- Staff of 100 employees
- 1300 m^2 clean room

IMT

PRECISION ON GLASS

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