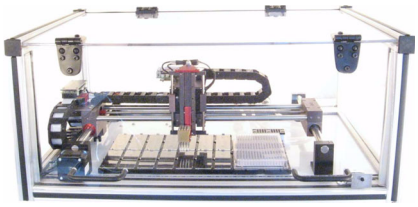
LabNEXT
the Fine Art of Microarraying



Xact II™
Compact Microarrayer

Xact™ personal microarrayer meets mid-range throughput requirements for printing microarrays of biological samples on glass, membrane substrates or onto bottoms of microplate wells.

Highlights

East to start, compact and portable

Features all qualities of the high-end systems

Fast and versatile

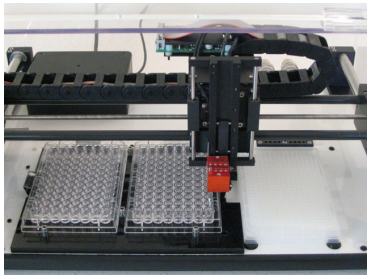
Operates with proprietary composite printing pins

Compatible with all microplates standards

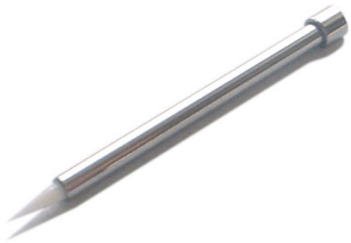
Includes microarray design software

Integrated with microarray image processing and data analysis tools

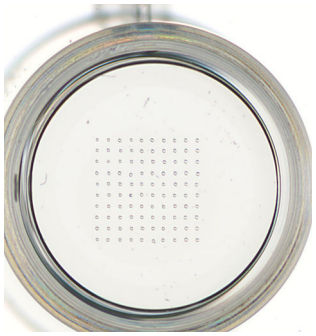
Prints onto 96-well plates



Prints DNA, oligonucleotides, proteins, bacterial clones and other materials with low cross contamination using metal-ceramic capillary pins Xtend.

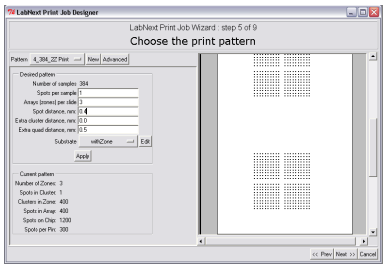


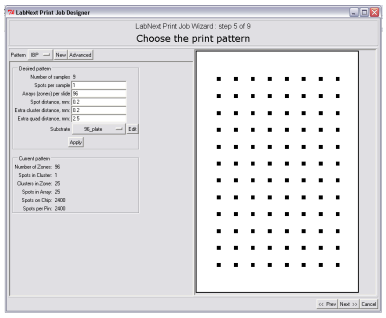
Prints up to 400 (20x20) samples in each well of 96-well plate or up to 30K samples on glass slides 1"x3"



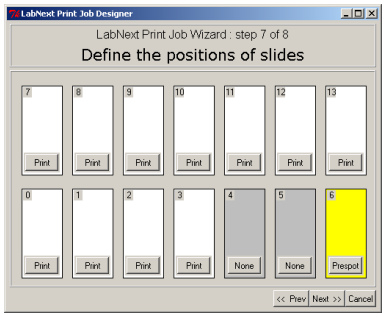
Software Features

Visual Microarray Design
The system allows preview of the microarray layout. At the design stage it is possible to define printing pattern, spot repetitions and pickup sequence and other important parameters of the microarray. The software offers manual and automated methods of microarray design. In the automated mode the most rational use of microarray surface prompted. Once created the microarray design can be saved in the computer repository and used for other printing jobs.



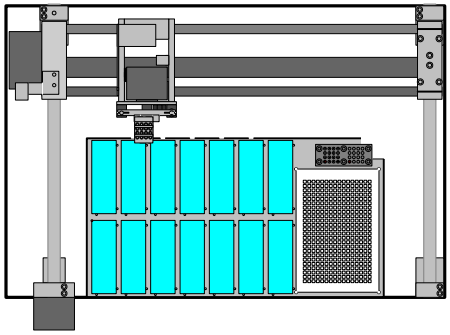


Visual microarrayer controls

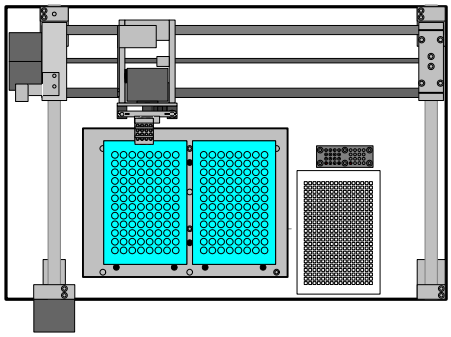


Work Board Configurations

14 glass substrates / 1 source plate
for printing arrays onto microscopic glass size substrates



2 96-well delivery plates /1 source plates
for printing arrays onto bottoms of 96-well plates



Specifications

Performance
- Printing Method: Contact printing. Proprietary head and printing pins are available. The system can accommodate heads from other vendors.
- Number of printing needles: 1-16 in various patterns with the standard LabNEXT printing head. The control software can work with any printing pattern in case of using printing heads of other vendors.
- Slides capacity: 14 slides. Any number of them can be used for pre-spotting.
- Source plates capacity: 1 plate.
- Slide locks: independent. The system can accommodate from 1 to 14 slides in any positions.
- Needles cleaning technology: fluid stream washing, vacuum drying.

Mechanical
- Accessible operating area: L 295mm, W 170mm, H 70mm
- Resolution: X, Y - 0.002 mm, Z - 0.005 mm (spacing between two nearest possible spots)
- Absolute accuracy: X, Y - 0.05 mm, Z - 0.01 mm. (accuracy of positioning the most remote from the origin spots within the work area)

Environmental
- Dimensions: W18" X D14" X H9" (457mm X 355mm X 229mm)
- Power supply: 110V-220V AC
- Lab facilities: Vacuum. Portable vacuum pump can be used.
- Computer interface: USB
- Computer requirements: Windows 2000/XP, USB port.

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