

# Xact II™ Compact Microarrayer

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

## Highlights

**Full featured, fast and precise**

**Compact and portable**

**Unlimited flexibility in creating microarray patterns**

**Operates with proprietary composite printing pins**

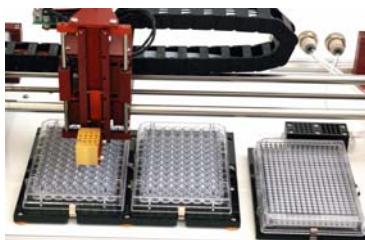
**Humidity control option**

**Compatible with all labware standards**

**Integrated with microarray image processing and data analysis tools**

**Prints into 96-well plates**

**Easy to set up and reconfigure for slide or microplate printing**



**Equipped with precise and efficient 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"**

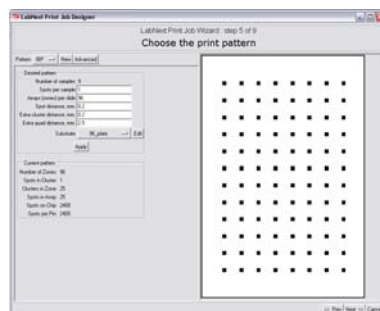
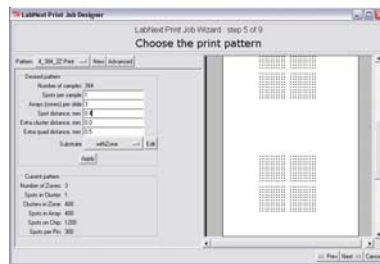


## Software

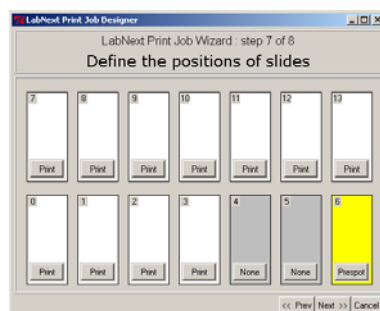
### Basic Features

- Automated and manual design of microarray patterns
- Multiple repetitions of pattern fragments over the substrate area
- User defined microarray placement
- Pickup repetitions and pin refills
- Control over pickup time, deposition time and velocity
- Control over liquid uptake volume
- User defined parameter for pin cleaning
- User defined operation speed
- Repository of labware, clone libraries and system configurations
- Output compatible with image and data processing software from LabNEXT and other vendors
- Print interruption recovery

### Visual microarray design



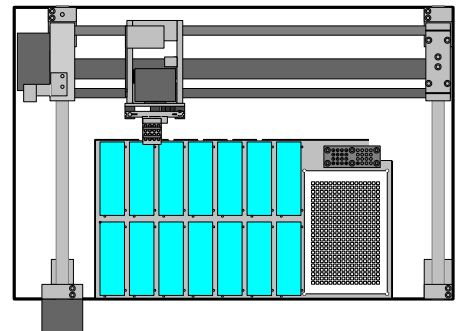
### Visual microarrayer controls



## Configurations

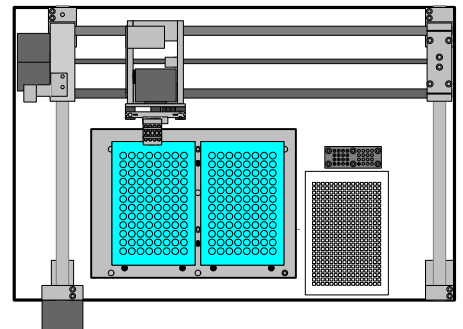
### Slide Printing

14 substrates 1"x3" / 1 source plate



### Plate Printing

2 delivery plates 96-well / 1 source plate



## Specifications

- **Printing Method:** Contact printing with Xtend microarray pins. Possible use of pins from other vendors.
- **Number of microarray pins:** 1-16
- **Substrate capacity:** 14 slides or 2 96-well plates.
- **Source plate capacity:** 1 microplate
- **Substrate locks:** independent.
- **Pins decontamination technology:** fluid stream washing, vacuum drying.
- **Performance:** 30 sec per cycle. (12 min per 384 clones with 16 pins)
- **Microarray density:** up to 30,000 clones on 1"x3" glass substrate. 400 clones in each well of 96-well plate
- **Operating area:** L 295mm, W 170mm, H 70mm
- **Resolution:** X, Y - 0.002 mm, Z - 0.001 mm
- **Absolute accuracy:** X, Y - 0.02 mm, Z - 0.01 mm.
- **Dimensions:** W 23" X D 14" X H 12"
- **Power supply:** 110V-240V AC
- **Lab facilities:** Vacuum
- **Computer interface:** USB
- **Computer requirements:** Windows 2000/XP, USB port.