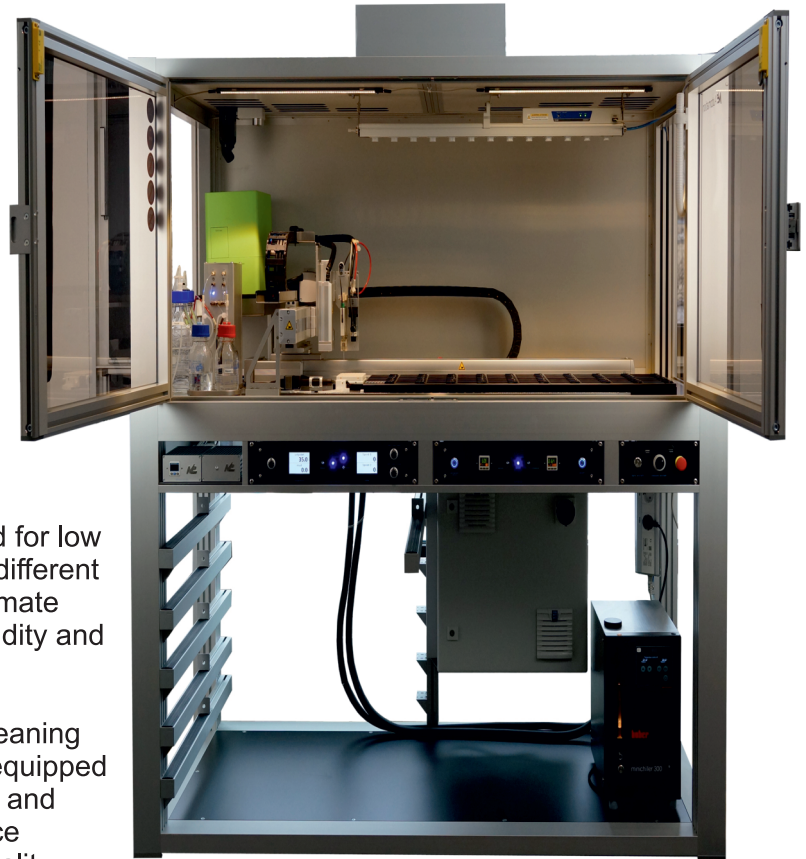


# iSIX™ series

Hybrid spotting technology

- High throughput applications
- High production capacity for large amount of samples
- Automated target and microarray imaging
- Multi-Pin Head for fast microarray spotting
- Latest Pin technology for perfect spot formation
- Inline QC for the highest microarray quality
- Flexible deck configuration
- Different instrument sizes



M2-Automation PinDMD technology is dedicated for low volume protein and DNA microarray printing on different coolable targets under controlled conditions (Climate Control system for controlling temperature, humidity and DEW point).

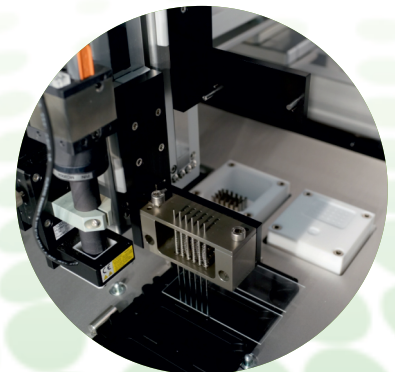
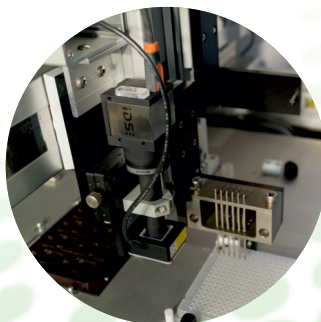
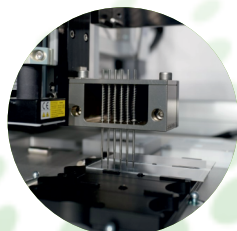
The instrument **iSIX™** is a flexible system with Ultrasonic, Wash and Dry station for absolute cleaning of the microdispensers. The instrument can be equipped with a flexible number of target holders for glass and plastic slides, MTPs and with two coolable source holders. The head camera performs an inline quality control to find missed spots which are respotted with the second single pin head to achieve the highest microarray quality.

### Novel Dual Head and Jet Technology

Dual Head Technology for multitasking functionality enables a large scale sample spotting, recovery of single samples spotting and optical inline quality control.

The technology combines two different micro-dispensers in one single instrument:

- 1) Pin Driven Micro-Dispenser (PinDMD)  
for pico- to low nanolitre applications with dual head and inline QC for an optimal microarray result
- 2) Piezo Driven Micro-Dispenser (PDMD)  
for pico- to low nanolitre applications

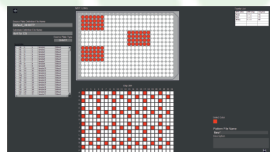


**iSIX™ is the perfect combination of a robust contact Pin spotter with a non-contact Piezo dispensing technology within one system for ultimate microarray spotting**

#### Contact:

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# Contact & Non-Contact Liquid Handling Solution



## InDot Instrument Control Software

InDot is the new, unique Intuitive and Innovative software package. InDot is comprehensive in function and simple to use with the possibility of customised array layouts. InDot is an image-based, user-friendly, highly flexible software suitable for different types of experiments.

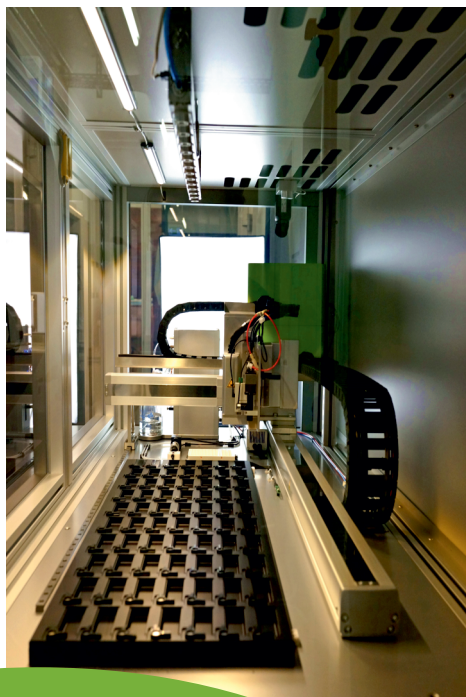
InDot's range of colour schemes for source plates and target substrates allow the user to find individual components instantly by simply referencing the colour code.

- Self-explanatory user interfaces
- Nested run sequences for convenient experiment set up
- Support for all non-contact and contact spotting instruments
- Password protected account handling for individual users
- High resolution monitor of 1920x1080 pixel
- Software operating under Windows 10



## Instrument Applications

- DNA/protein/cell microarrays
- Glycan spotting
- Cell transfection arrays
- Diagnostic biochips, Lab-on-a-Chip
- Diagnostic biomarker and microbiology assays on multiple substrate (slide, MTP, NC membrane)
- Drug discovery: e.g. small volume GPCR assays, immunoassays
- Screening compound libraries
- Spotting to custom-specific substrates and formats



## Key features

- Integration of customer specific components
- Contact and non-contact dispensing within one hybrid system
- Possible climate controlled conditions (temperature humidity, HEPA-filter)
- Inline QC for perfect microarray results and low scrap-rate
- Dedicated for large amount of samples

## Technical Data:

### Capacity:

iSIX™- 400: 60 slides / 8 MTPs

iSIX™ - 600: 92 slides / 12 MTPs

iSIX™ - 1000: 156 slides / 22 MTPs

*Availability of all iSIX™ systems in single or dual Pin-head version. The number of pins per pin head is flexible, depending on the source formats.*

*All iSIXs can be equipped with 1-2 dispensing heads, with or without head camera and with optional non-contact Piezo dispenser.*

### Source formats:

96-, 384-, 1536-MTPs or 16 plastic vials of 0.5-2 mL or 1 mini-MTP: 24 wells of 100  $\mu$ L or 65 wells of 25  $\mu$ L or cartridge dispensing from 2-20 mL vial

### Microdispensers:

#### Piezo Driven Micro-Dispenser.

30 pL to 300 pL per droplet;

c.v. < 2 %; max. frequency 1000 Hz

#### Pin Driven Micro-Dispenser.

75 pL+; cv < 5%

### Dispense modes:

direct dispensing, aspirate (air-gap possible); dispense; dispense out of large volume source vials; resuspend samples

### Maximum drive range:

X=400/600/1000mm, Y=300mm, Z=25mm

### Resolution: <= 10 $\mu$ m

### Positioning repeatability

in XY directions <= 10 $\mu$ m

### Maximum positioning velocity:

>= to 200 samples depositions per second

Self-contained pneumatic system

**Power:** 100-230 VAC; 590 W;

### Safety housing:

75 W; HEPA filter 20-160 W

### Dimensions:

W 86 cm, D 75 cm, H 90 cm,  
weight from 95 kg

### Optional:

*Ergonomic user stand* USTA for keyboard, mouse and monitor:

W 44 cm, D 58 cm, H 175 cm, weight 36 kg

*HEPA filter system:*

W 38 cm, D 41 cm, H 61 cm, weight 12 kg

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