

itWO™



ULTIMATE DISPENSING FLEXIBILITY



ONE INSTRUMENT - TWO HOUSINGS

The **itWO** instrument is available as a benchtop model or as an industrial standalone model on a heavy duty table.

Contact and Non-Contact dispensing

Free pattern design

Flexible deck configuration

Built-in pressure and vacuum control

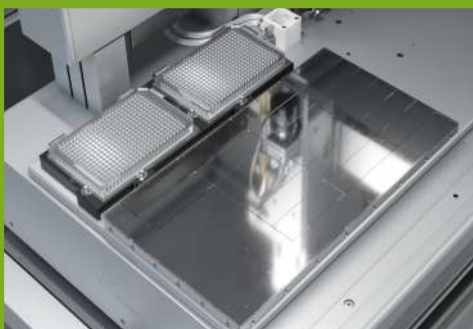
Automated target and microarray imaging

Integration of custom-specific components

Controlled cooling and heating

Humidity control

Clean room conditions, HEPA filter



DECK LAYOUT FOR ALL POSSIBLE TARGETS



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MICRODISPENSERS IN ONE INSTRUMENT

TECHNICAL DATA

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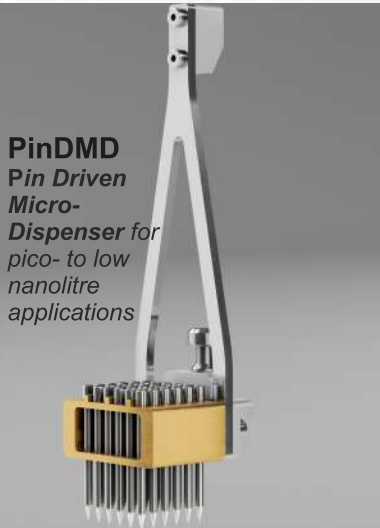
M2MD
M2-Micro-Dispenser for low nano-to low millilitre applications



PDMD
Piezo Driven Micro-Dispenser for pico- to low nanolitre applications



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PinDMD
Pin Driven Micro-Dispenser for pico- to low nanolitre applications

The **PinDMD** microdispenser for accelerating sample throughput, with flexible amount of pins for swift printing on glass slides or other planar targets.

TARGET & SOURCE

TARGET

32 slides or 4 MTPs
1 planar target holder for wafers up to 9 inch membranes up to 195 x 300mm

SOURCE FORMAT

96-, 384-, 1536-MTPs or 1 mini-MTP
24 wells of 200 µL or 65 wells of 25 µL
16 plastic vials 0.5-2 mL
cartridge dispensing from 2-20 mL vial

MICRODISPENSERS

PIEZO-DRIVEN MICRO-DISPENSER (PDMD)

30 pL to 400 pL per droplet; c.v. < 2 %; max. frequency 1000 Hz (depends on the dispenser version)

M2-MICRO-DISPENSER (M2MD)

10 nL to mL; c.v. < 2 %; max. frequency 10-250 Hz, (depends on version of the dispenser)

PIN-DRIVEN MICRO-DISPENSER (PinDMD)

100 pl to nL per dispensing; c.v. < 5%; frequency > 5000 samples/day

DISPENSE MODES

aspiration (air-gap possible); dispense; bulk dispense out of large volume source vials; re-suspending samples, pin dispensing mode

INSTRUMENT

RESOLUTION

<= 1 µm

POSITIONING ACCURACY

in XY directions <= 5 µm

MAXIMUM POSITIONING VELOCITY

up to 20 spot depositions per second

MAXIMUM DRIVE RANGE

X = 250mm, Y = 300mm, Z = 100mm

DIMENSIONS

ITWO-300P BENCH TOP MODEL

W 110 cm, D 70 cm, H 110 cm

ITWO-300P INDUSTRIAL STANDALONE MODEL

W 110 cm, D 70 cm, H 190 cm

HEPA FILTER

W 38 cm, D 41 cm, H 61 cm

DNA / protein / cell microarrays

Multiplex ELISA

Lateral Flow

Biochips, Lab-on-a-Chip

Biomarkers, assays on slides, MTPs, NC membranes

Custom specific substrates and formats

Semiconductors

Biosensors

