

ione™



ULTRA FAST „SPOT ON THE FLY”



TWO SIZES - TWO POSIBILITIES

The instruments are available in two sizes, with a high flexible customised deck layout. Contact and non-contact printing is enabled by the unique Dispensing Technology.

Contact and Non-Contact dispensing

Free pattern design

Spot on the fly technology

Flexible deck configuration

Automated target and microarray imaging

Integration of custom-specific components

Built-in pressure and vacuum control

Controlled cooling and heating

Humidity control

Clean room conditions, HEPA filter

X,Y, Z magnetic drives



DIFFERENT DECK LAYOUTS
-
CUSTOMISED ACCORDING TO YOUR APPLICATIONS





MICRODISPENSERS IN ONE INSTRUMENT

TECHNICAL DATA

TARGET & SOURCE

TARGET

iONE™-600

80 slides / 12 MTPs

iONE™-1200

168 slides / 24 MTPs

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 3000 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, spot-on-the-fly mode

INSTRUMENT

RESOLUTION

<= 1 µm

POSITIONING ACCURACY

in XY directions <= 3 µm

MAXIMUM POSITIONING VELOCITY

up to 20 spot depositions per second

MAXIMUM DRIVE RANGE

X = 600/1200 mm, Y = 320 mm, Z = 44 mm

DIMENSIONS

FROM

W 150 cm, D 80 cm, H 180 cm, weight from 250 kg

HEPA FILTER

W 38 cm, D 41 cm, H 61 cm

POWER

iONE - 590 W, 100-230 V

Safety housing 75 W

HEPA filter 20-160 W

NON-CONTACT



M2MD

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



PDMD

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



CONTACT



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.

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

