iFOUR

M2 4YOU

Your personal microarray dispenser

iFOUR instrument, a new "state of the art" dispensing system for R&D applications from M2-Instruments.
iFOUR instrument allows anybody to get access to own microarray printer or microfluidic filling system with optional features for quality control of the dispensed solutions.

NEXT GENERATION DISPENSING TECHNOLOGY

iFOUR instrument is equipped with the dispensers for dispensing in 30+pL, 20+nL to mL volume ranges and printing on different targets under controlled conditions.

The **iFOUR** instrument is a ready to go instrument, made from sustainable materials with very handy dimensions. The cube of 50 cm is fitting to any workbench. Built in operational software InDot, head camera, pressure & vacuum units, temperature/ humidity sensor, liquid path AIR free and monitor/ mouse/ keyboard is a matter of course.

Configure your own iFOUR

m2-instruments.com

PRODUCED BY

M2 INSTRUMENTS

INTUITIVE USER INTERFACE

The **iFOUR** instrumens is equipped with the InDot operative software. The software is image based, self-explanatory, reflects the deck layout and enables user friendly operations. Key features such as target lay-outs, array formatting, reagent and volume setting are, of course, included.

. Status of the system reflected in one screen;
. Target and substrate designer within a few clicks;
. Drag & drop programming of the wash designer;

SUPPORTED BY

- DNA / protein / cell microarrays
- Multiplex ELISA
- Lateral Flow applications
- Cell transfection arrays
- Diagnostic biochips, Lab-on-a-Chip
- Diagnostic biomarker and microbiology assays on multiple substrate (slide, MTP, NC membrane)
- Drug discovery: small volume GPCR assays, immunoassays
- Compound library screening
- Biological screening
- Spotting to custom-specific substrates and formats
- Biosensors

TECHNICAL DATA

Capacity:

iFOUR™ - 16 slides / 2 MTPs with 3x8 well strip source holder. Alternative 1x planar target holder for wafer, membranes up to 175x200mm.

Source formats:
96-, 384-MTPs or 24 wells from 3x8 holder or PDMD cartridge (dispensing from 2-20 mL vial) or M2MD BD Bulk (dispensing from 2-20 mL vial).

Microdispensers:

Piezo Driven Micro-Dispenser (PDMD)
30 pL to 300 pL per droplet; c.v. < 2 %; max. frequency 1000 Hz, additional pump needed;

M2-Micro-Dispenser (M2MD)
10 nL to mL; c.v. < 2 %; max. frequency 10-250 Hz, the pressure / vacuum unit is included in the MDC, additional pump can be added;

Dispense modes:
aspirate; dispense; dispense out of large volume source vials; re-suspend samples

Resolution <= 1 μm

Repeated Positioning accuracy
in XY directions <= 10 μm

Position per second: 3-5

Spottable area:

with source 3x8: X175, Y200
with source MTP: X130, Y200

Dimensions:

weight: 50 kg
W 50 cm, **D** 50 cm, **H** 50 cm
(bench top model)*

Available options:
- Humidity control
- Syringe Pump for Aspirate/Dispense mode
- Wide dispense range
- Vacuum table
- Planar Target holder

*the sizes are approximate