

iFOUR



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



Contact:
M24You GmbH · Bessemerstraße 16 · 12103 Berlin, Germany
Phone +49 (0) 30. 856 11 939-0 · info@m24you.com · www.m24you.com

INTUITIVE USER INTERFACE

The **iFOUR** instrument 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

iFOUR

M2
4YOU



- 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 or 2 MTPs with 3x8 well strip source holder. Alternative 1x planar target holder for wafer, membranes up to 180x200mm.

Source formats:

96-, 384-MTPs or 24 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):

20 nL to mL; c.v. < 2 %; max. frequency 10-250 Hz, depending on version with or without additional pump (SYR01D or 03), since the system has a pressure / vacuum unit in the MDC

Dispense modes:

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

Resolution <= 1 µm

Repeated Positioning accuracy in XY

directions

<= 20 µm

Positions/s: 3-5

Spottable area:

with source 3x8: X180, Y200

with source MTP: X130, Y200

Dimensions:

weight: 50 kg

iFOUR 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