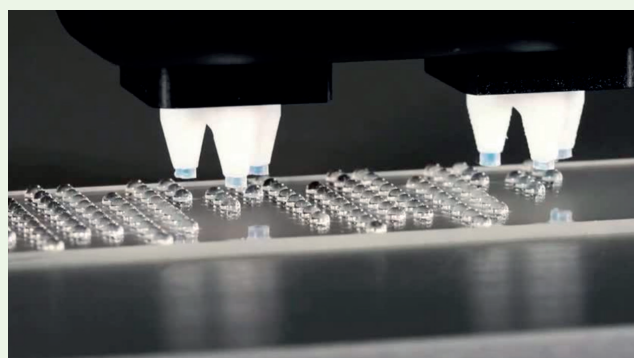




# Multi Channel Dispensing

## From Proven Concept to High-Throughput Reality

Enable your R&D process to seamlessly translate into high-throughput manufacturing - while preserving precision at every step. Most instruments from M2-Automation support multi-channel configurations. Whether you need high-density **microarrays**, **multiplex immunoassays** or **ultra-fast production lines** – our systems can be equipped with multiple independently controlled dispensers to meet the most demanding requirements.

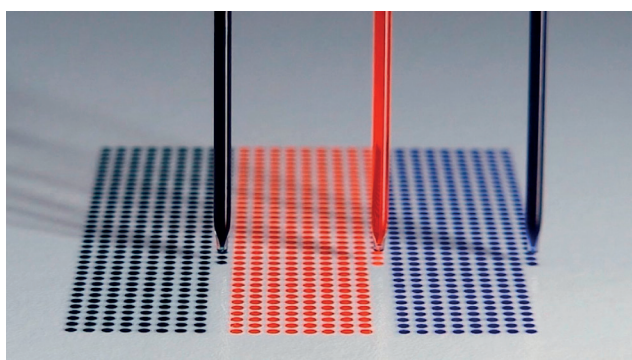


### Key Benefits:

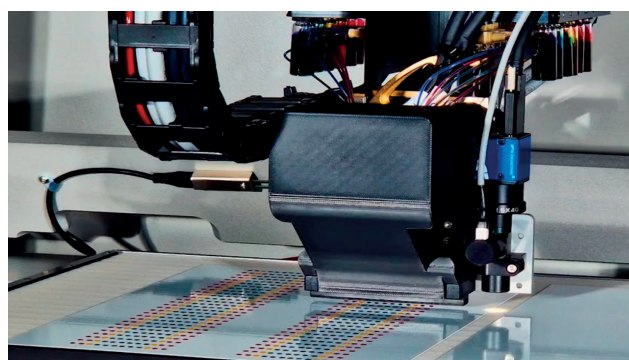
- ◆ Real-time parallel dispensing across all channels
- ◆ Reproducible alignment and volume across target
- ◆ Custom nozzle layout for every substrate
- ◆ Isolated fluid paths ensure high sample integrity

## Two different dispensing modes

Every application has its own requirements, especially when it comes to throughput, sample handling, and system integration. That's why we offer two distinct and proven multi channel concepts.

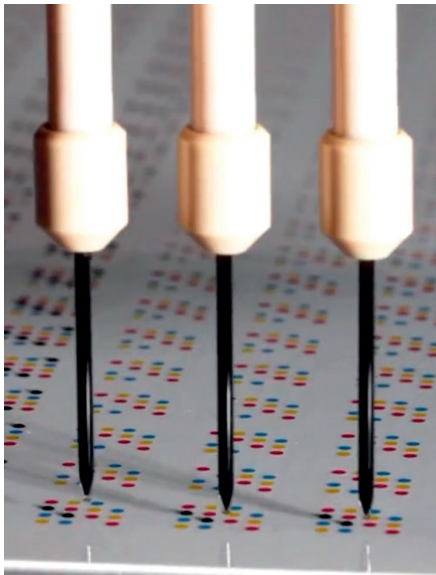


**Aspirate / Dispense Mode** is ideal when precise control of multiple reagents across different and diverse samples is needed. Each channel draws liquid from any reservoir, such as wells, tubes, or custom containers, before dispensing it in full synchronization.



**Bulk Mode** uses onboard reservoirs to supply each channel directly, enabling continuous operation with minimal fluid handling. It offers maximum stability, cleanliness, and speed for high-volume production, while eliminating any risk of cross contamination.

# Multi-Channel Applications



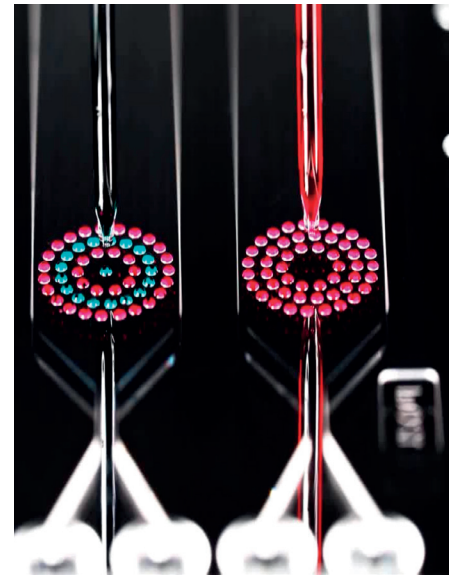
## Diagnostics

- ◆ Multiplex Immunoassays
- ◆ Autoimmune Profiling
- ◆ Lateral Flow Tests



## Microarrays

- ◆ DNA / Protein Arrays
- ◆ Replicate Spotting
- ◆ Cell Arrays



## Microfluidics

- ◆ Sensor Coating
- ◆ Channel Filling
- ◆ Sequential Reagent Loading

## Screening | R&D

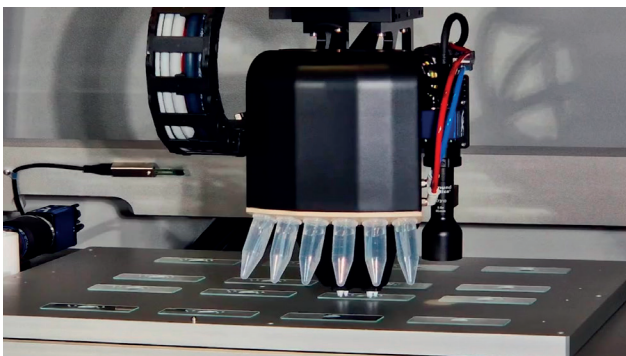
- ◆ Assay Component Mixing
- ◆ Drug Screening
- ◆ Combinatorial Assays

## Production

- ◆ Batch Reagent Filling
- ◆ Inline Multi-Channel QC
- ◆ Parallel Dispensing Lines

## Custom Formats

- ◆ Slide / Cartridge Layouts
- ◆ Custom Nozzle Geometries
- ◆ Integrated Workflow Modules



## Your Process. Our Design.

Every multi-channel dispensing head from M2-Automation is designed to fit your process. Whether it's matching the nozzle pitch to a specific microfluidic layout or building 2D dispensing heads for chip-based assays: we adapt to your needs - from concept to scale.



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