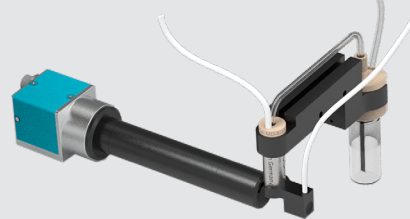
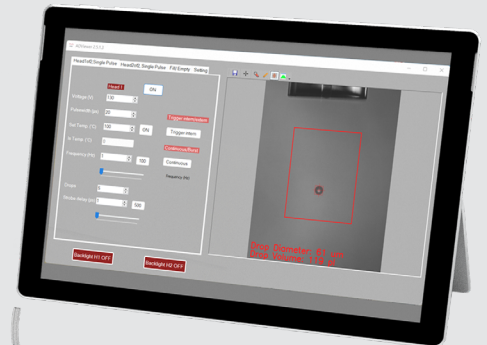


MD-E-5000

MICRODROP DISPENSING SYSTEM

to use with Micro dispenser heads or Autopipettes



FEATURES

The ready-to-use microdispensing system MD-E-5000 can drive:

- up to 4x Microdrop dispenser heads
- up to 4x Autopipettes.

Control the system

- manually with Microdrop Software via user interface or
- externally via appropriate commands.



ADVANTAGES

- Non-Contact dispensing
- Wide range of dispensable liquids and materials (0.4 to ~10,000 mPas)
- Precise and repeatable single droplet with a diameter of 45 μm up to 120 μm^*

- Reliable single droplet spotting by using visual control of parameter settings
- Only high inert materials are in contact with the liquid
- Integration into existing positioning system possible



DISPENSABLE LIQUIDS

- Aqueous solutions (e.g. DNA, protein, cell suspension)
- Medical coatings
- Functional polymers
- Conductive inks
- Adhesives
- Lubricants



MICRODROP DISPENSING SYSTEM

TECHNICAL DATA OF THE MD-E-5000

Versions	to drive 1x, 2x or 4x Micro dispenser heads or Autopipettes different versions available
Dimension	w: 200 mm / h: 134 mm (feet included) / d: 275 mm
Weight	~ 3 kg

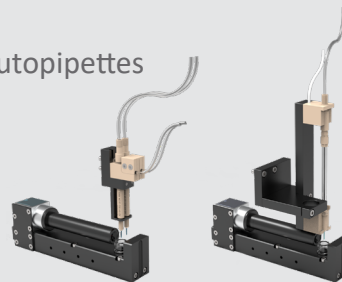


SHORT FACTS

Micro dispenser heads



Autopipettes

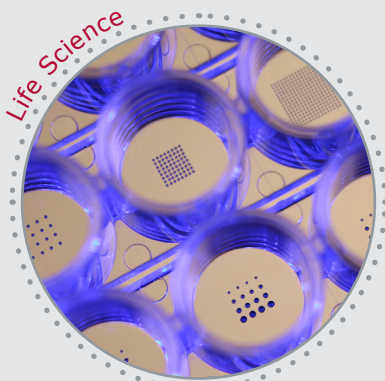


Liquid viscosity	0.4 to 10,000 mPas
Inner nozzle diameter (Standard)	50 μm , 70 μm or 100 μm
Droplet diameter in flight	~45 to 120 μm * (in standard pulse/ with pulse modulation the diameter can reduce to half)
Single droplet volume	~50 to 900 μl * (in standard pulse/ with pulse modulation the diameter can reduce to half)

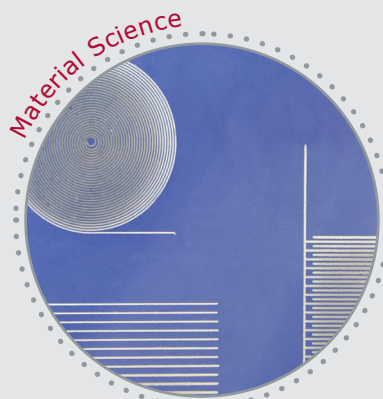
Liquid viscosity	0.4 to 20 mPas
Inner nozzle diameter (Standard)	50 μm or 70 μm
Droplet diameter in flight	~45 to 90 μm * (in standard pulse/ with pulse modulation the diameter can reduce to half)
Single droplet volume	~50 to 380 μl * (in standard pulse/ with pulse modulation the diameter can reduce to half)

* depending on the liquid and
chosen inner nozzle diameter

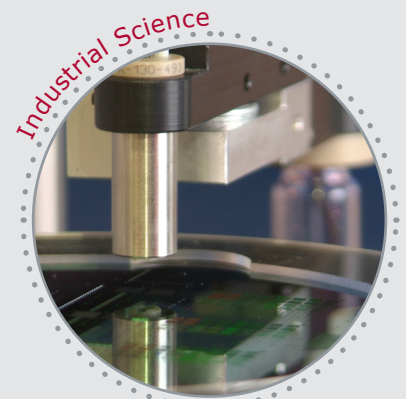
COMMON APPLICATION FIELDS



- Biosensors & Biochips
- Lateral Flow
- Lab-on-a-Chip
- Microarray Printing



- Printed Electronics
- Functional Polymers
- 3D Structures



- Wafer marking
- Microlubrication
- Microbonding

09/2023

We are there for you. Contact us.

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