



AUTODROP GANTRY ECO

DUAL CHANNEL

BENCH TOP

R&D

APPLICATIONS

Diagnostic Biochips
DNA / Protein / Cell Microarrays
Multiplex ELISA
Lateral Flow Applications
Biosensors
Lab-on-a-Chip
Diagnostic Biomarker
Drug Discovery
GPCR Assays
Immunoassays
Biological Screening
Spotting to custom-specific target
Cell Transfection Array



KEY ADVANTAGES

Dispensing from 30 μ l to ml
Multichannel dispensing
No system liquids
No sample dilution
No cross contamination
Recovery of biological samples
Any viscosity range
Any target
Any pattern



**MICRODROP.
THE DIFFERENCE.**

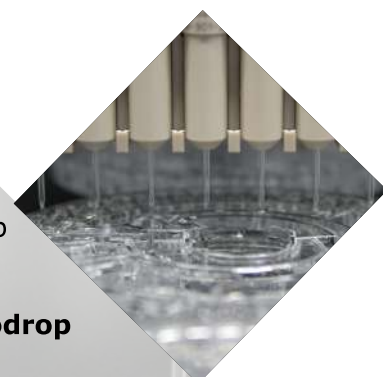
microdrop Technologies GmbH
Tycho-Brahe-Kehre 1
22844 Norderstedt
Germany

Tel.: +49 40 535383-0
Fax: +49 40 535383-24
Email: info@microdrop.de
www.microdrop.de

SOFTWARE**INTUITIVE FROM THE FIRST CLICK**

- Setting and saving individual dispensing parameters for each sample
- Macroscript for programming automatic processes
- Import and edit **DXF files** for printing curves and other structures (path control)
- Point to point, Drop on Demand, Spot-on-the-Fly modes
- Observation of dispensing droplets in flight and determination of drop velocity, drop volume, Positioning correction and QC-on-the-fly
- Image recognition for substrate position and/or fiducial marks

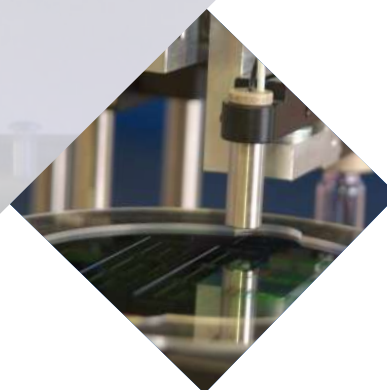
All control electronics are operated via the user interface of the included Autodrop Software.



DISPENSERS	Inner nozzle diameter	Droplet diameter	Droplet volume	Viscosity range
 Autopipettes	30 µm, 50 µm, 70 µm, 100 µm or customized	~50 µm up to 90 µm dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode	~65 pl up to 380 pl dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode	0.4 up to ~50 mPas
 Microdispenser heads	30 µm, 50 µm, 70µm, 100 µm, 120 µm, 140µm	~50 µm up to 120 µm dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode	~65 pl up to 900 pl dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode	0.4 up to ~10,000 mPas

OPTIONAL EXTENSION OF THE AUTODROP

- dispenser heads or pipettes
- holder for MTPs and glass slides
- coolable & heatable holder
- vacuum plate, also heated
- humidifier
- coolable source & target
- customized substrate plates
- and more...



YOUR
IDEAS?

CONTACT
US

TECHNICAL DATA

Electronic control unit

BLDC motors, ball screws, x- and z-axis each 50 W, y-axis 2x 50 W

Travel range

x-axis 210 mm, y-axis 210 mm, z-axis 110 mm

Repetition accuracy

±10 µm each axis

Resolution

0.1 µm

Acceleration

maximum 500 mm/s²

Velocity

maximum 75 mm/s²

Dimension // Weight

W: 580 mm / D: 580 mm / H: 790 mm // ~62 kg