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# ALLDROP

## Nanodispenser

# Nanoliter printhead

High precision dispensing & consistent volumes  
by automated in-line dispense control (IDC)

The ALLDROP is a nanoliter OEM printhead with an integrated optical imaging system for simultaneous droplet analysis during a dispense operation. The installed pressure controlled reservoir (SmartReservoir) maximises dispensing precision and accuracy by keeping the system pressure at a constant level.

In-line dispense control (IDC) automatically sets dispense and pressure parameters to get most reliable and robust results even for complex liquid types and long production runs.

## How IDC works

Every dispensed droplet is imaged during dispense operation by the integrated camera system. The image processing instantly provides the volume of each droplet and further determines droplet quality. The software algorithm identifies a volume drift and autonomously adapts dispense parameters just before the next droplet is released. Such closed loop control keeps droplet volumes consistent and guarantees highest reproducible dispensing performance even for difficult liquids.

### 1 - SmartReservoir

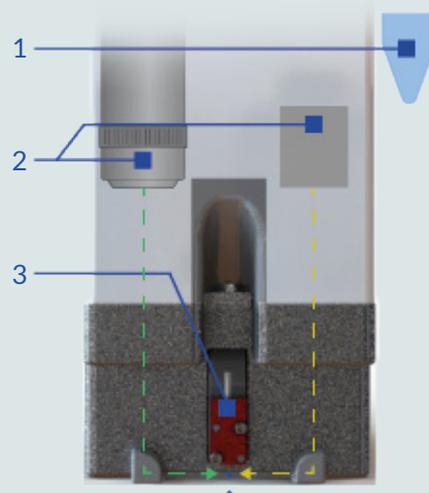
Enables precise control of pressure conditions ensuring stable dispensing results at high frequency.

### 2 - SmartDrop

Automated volume calibration and verification tool enabling the in-line control of droplet size and quality.

### 3 - PipeJet

Non-contact, drop-on-demand dispenser for generating nanoliter droplets.



# 100% process control

Full documentation of all process parameters and volume for each dispensed droplet



## GMP compliance

Meets requirements of GMP compliant processes in diagnostic, pharma or medical market.



## Traceability

All process data are saved for full documentation and tracking of each production run.



## Non-contact dispensing

Drop-on-demand dispensing of nanoliter droplets.



## OEM printhead

Nanoliter printhead for integration into production lines or BioSpot automation platforms.



## Independent of liquid type

Dispensing of a wide range of liquids by in-line dispense control (IDC).



## Repeatability

Minimal droplet volume variation by constant regulation of dispense parameters via software.

OEM solution designed for diagnostic, pharma- and medical market, especially:



Diagnostic manufacturing



Precision medicine



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BioFluidix provides ultra-low volume dispensing solutions for the automation of liquid handling workflows in life science, diagnostic, medical and the pharmaceutical market. Our flexible liquid handling automation platforms, printheads, OEM components and consulting services match standard and highly customized applications.

Learn more on  
[www.biofluidix.com](http://www.biofluidix.com)



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