



# ALLDROP® nanoDispenser

### Nanoliter printhead

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

The ALLDROP<sup>®</sup> 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 process precision by controlling the system pressure to constant conditions.

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

#### 1 - SmartReservoir

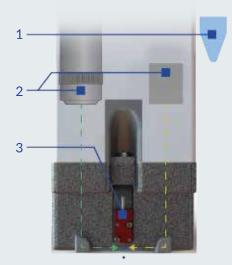
Enables precise control of pressure conditions ensuring stable dispensing results at high frequency.

#### 2 - SmartDrop

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

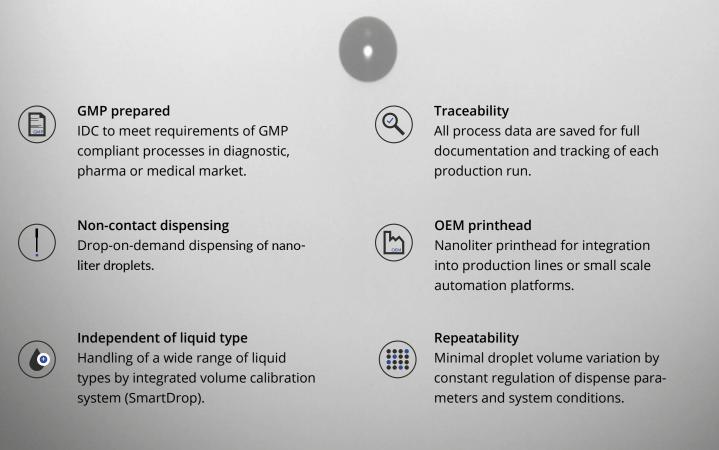
#### 3 - PipeJet®

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



### 100% process control

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



## OEM solution designed for life science, diagnostic and pharma industries, especially:



Diagnostic manufacturing



Precision medicine





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



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