



- Automated volume calibration
- Droplet volume measurement
- No manual adjustment of dispensing parameters

SMARTDROP SYSTEM TOOL AND DROPLET MEASUREMENT SYSTEM

The PipeJet® technology enables the contact-free dosage of small amounts of liquids in the range from a few nanoliters up to some microliters. A new level of user-friendliness for the PipeJet technology is provided with the stroboscopic camera system as it enables the user to automatically calibrate the dispensing module to its single droplet target volume.

By this it is no longer required to manually adjust dispensing parameters, which saves time in the setup process and gives additional safety for each application that requires accurate volume dispensing.

FEATURES

- Automatically calibrate the dispenser to your target volume
- Easy and fast system setup
- True control of dispensed volume

Related Products



SmartDrop



TopView



PipeJet



AUTOMATED VOLUME CALIBRATION AND MEASUREMENT

BioFluidix has benchmarked its stroboscopic volume measurement technology against several established volumetric measurement techniques, such as the gravimetric measurement of droplet mass to ensure that the stroboscopic system works with highest accuracy. The BioFluidix software provides a closed loop control that automatically adjusts the dispensing parameters of the PipeJet module, based on the stroboscopic images until the pre-defined target volume is reached. This auto-calibration process can be run before each dispensing routine and therefore highly reproducible dispensing results can be achieved.

SPECIFICATIONS

Camera Resolution	1280 x 1024 pixels 5 µm per pixel
Stroboscopic frequency	min. 1Hz max. depending on PC configuration and ROI
Detectable volume range	2 - 1000 nl
Repeatability of measurement	< 0.1 % - 1 %
Power supply	24 V, 300 mA
Interfaces	BioFluidix Control Electronics 1 x LED Power 1 x Trigger (5 - 24 V) USB 3.0

SEQUENCE OF STROBOSCOPIC IMAGES OF A PIPEJET DISPENSING PROCESS

