

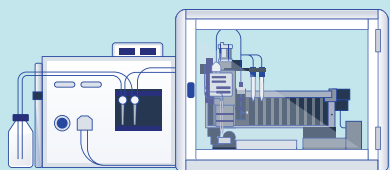
# sciPULSE High Volume

**BIG DROPS-** precision dispensing of droplets up to 1.3 nL

SCIENION's sciDROP PICO, implemented on sciFLEXARRAYER instruments, enables low volume dispensing ranging from 10 pL to 800 pL per drop for miniaturized applications that require reduced drop volumes or small spot diameters.

The size, shape and stability of generated droplets depend on many different factors such as voltage, pulse and frequency, the size of the integrated PDCs as well as fluid properties like viscosity, surface tension or density.

sciPULSE is an external hardware device which can be integrated on all sciFLEXARRAYER instruments and which allows uploading of standardized application software packages.



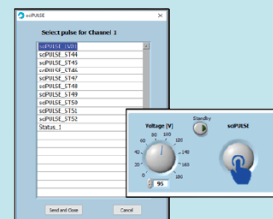
**sciFLEXARRAYER**

Compatible with all  
sciFLEXARRAYER types



**sciPULSE Device**

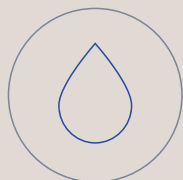
Hardware Device which allows  
drawing of pulse shapes



**sciPULSE File**

Software Application Package

sciPULSE enables dispensing of ultra low volumes (down to 10 pL), highly viscous samples, buffer additives or, shown here, generation of droplets of more than 1.3 nL. Therefore, by dispensing multiple times on the same position, sciPULSE enables flexible dispensing of volumes in the pL as well as in the nL range, using the same technology.



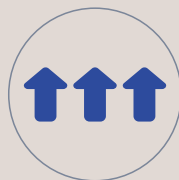
Droplets of  
up to 1.3 nL



Compatible with all  
sciFLEXARRAYERS



No contamination  
by satellites



Easy Upgrade of  
existing  
sciFLEXARRAYER  
systems



Flexible packages



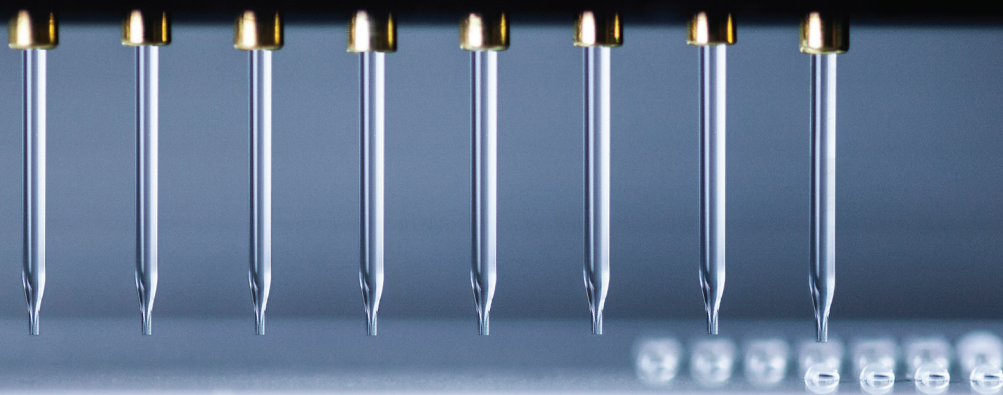
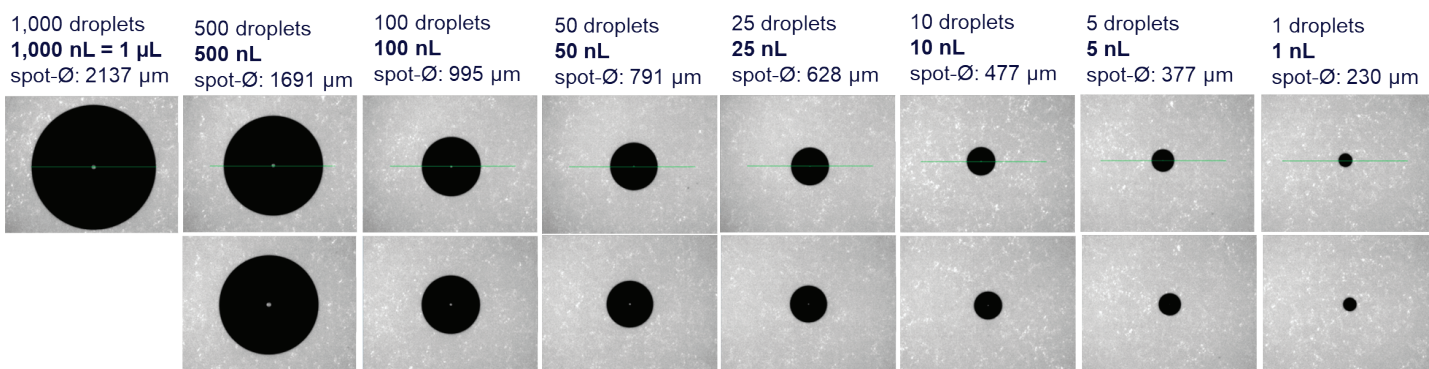
Spot-on-The-Fly

# Key Features

- Extends volume/ spot range up to 1.3 nL per drop
- Based on reliable sciFLEXARRAYER & sciPULSE technology
- Compatible with all sciFLEXARRAYERs
- Allows easy upgrade of existing sciFLEXARRAYERs
- Standardized high volume application software package

# Benefits

- Flexible instruments: enables PICO and NANO dispensing
- Less drops per spot required
- Lower risk contamination by satellites
- Spot on the fly
- Compatible with other application packages: ultra low volume, high viscosity and buffer additives



Visit our  
website to  
learn more



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