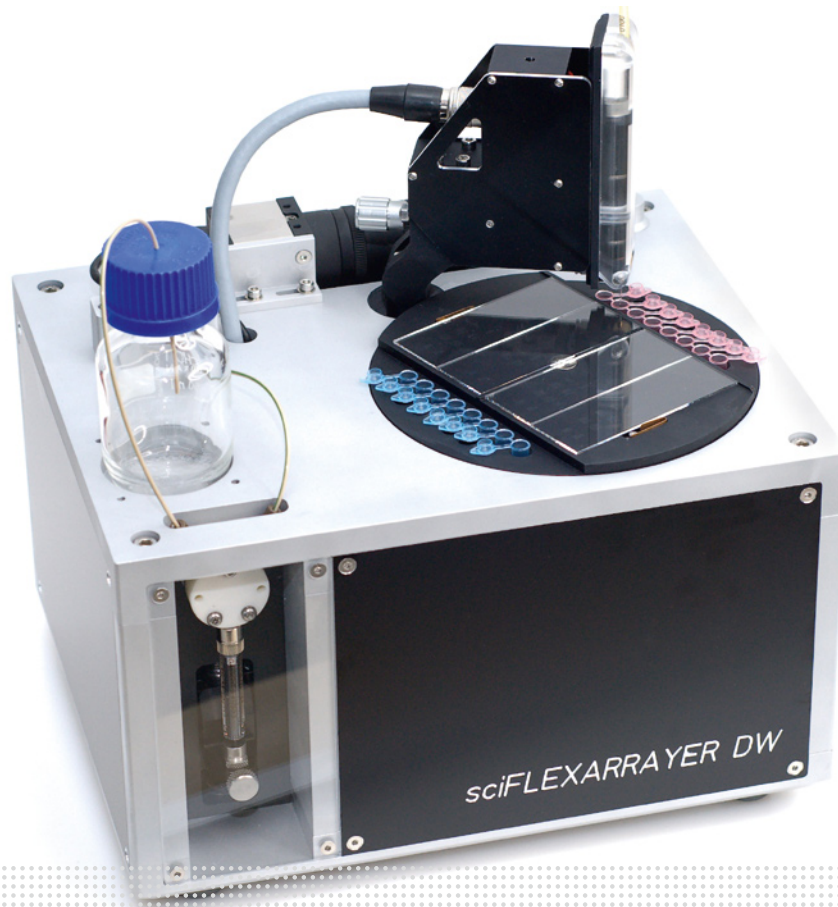


sciFLEXARRAYER Ultra-Low Volume Dispensers



The sciFLEXARRAYER DW

- The DW is the *entry-level* model of Scienion's sciFLEXARRAYER product line.
- The DW integrates Scienion's award-winning ultra-low volume non-contact precision technology in a *space-saving, easy-to-use and inexpensive* format.
- Using Scienion's drop-on-demand technology, the DW allows you to spot your customized arrays with pico- to nanoliter amounts of up to 16 biological samples on up to four slides.
- Using Scienion's *non-contact* technology, the DW eliminates the risk of damage to valuable surfaces.
- The DW is both *small and light-weight* – ideal for labs where space is limiting and portability is critical.
- The DW comes with Scienion's standard *flexible and user-friendly* sciFLEXARRAYER software, thereby drastically reducing the "learning" time when upgrading to a larger sciFLEXARRAYER model.
- The DW is great value for money – a straight-forward investment for any laboratory!

The sciFLEXARRAYER DW



Product Description

The sciFLEXARRAYER DW is a dedicated tool to speed-up basic research and to shorten development times for multiparallel bioanalytics. It is centered around, but not limited to, microarray based applications. Using both the sciDROP and sciSWIFT technologies, applications include the handling and deposition of DNAs, oligos, peptides, proteins, antibodies, glycans, lysates and a variety of different cells onto multiple substrates.

The DW allows the user to work in three different modes. In addition to an aspirate/dispense mode from vials, the system allows for bulk dispensing or aliquoting from large reservoirs (up to 1 liter) and, if using Scienion's sciSWIFT technology, a dispense-only mode. If using aspirate/dispense or bulk dispensing modes, a powerful wash station combined with integrated ultrasonication reduces cross contamination to a minimum.

An integrated horizontal camera combined with a stroboscopic light enables the user to monitor and control the droplet formation process.

The efficient turntable design of the DW ensures a small footprint with minimal weight and low power consumption. The drive system is precise and accurate and delivers reproducible results with arrays that have a dot pitch above 200 micrometers.

The DW is operated using a Labview®-based software which includes a flexible and user-friendly interface and time-saving array design algorithms. Requiring only one USB connection, the DW can be operated using a laptop, in order to save space and to increase portability.



Technical Information

Dispensing:	non-contact, drop on demand
No. of dispense capillaries:	1 PDC or 1 sciSWIFT
Dispense volume:	100 – 500 µl per drop
Typical spot size:	100 – 600 µm
Dot pitch:	>200 micrometer
Dispense control:	integrated horizontal CCD camera
Operation modes:	aspirate dispense/ bulk dispensing / dispense only
Software:	Labview® Programming, Windows XP based
Operating system capacity:	printable area is 100 x 80 mm or 4 slides (25 x 75 mm) customised target holders are available on request
Source:	24 Tubes à 0.2ml
Dimensions:	210 x 260 x 300 mm (L/W/H)
Weight:	12 kg



Software

- sciDROPVOLUME for automated optical volume determination
- sciAUTOTUNE for automated drop stabilisation



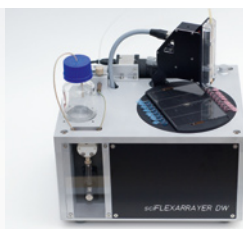
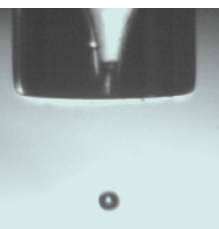
Benefits of the sciFLEXARRAYER DW

- An affordable "Personal Arrayer" with small footprint
- Perfect for training labs and student courses
- Identical dispensing technology as deployed in all sciFLEXARRAYER systems
- Scalable technology - protocols can be easily transferred to all sciFLEXARRAYER systems
- Non-contact dispensing for aspirate/dispense, bulk dispensing and dispense-only operation
- Adjustable drop volume; camera controlled
- Drop-on-drop dispensing with efficient mixing of reagents
- Dispensing onto all slide formats
- Quick and simple exchange of individual nozzles
- Broad range of nozzles for various applications
- Flexible and easy-to-use software



Related Products

- SE-011 sciCHIP Epoxy w/o Barcode 25 pcs / unit
- SE-012 sciCHIP Epoxy with Barcode 25 pcs / unit
- SA-011 sciCHIP Amino w/o Barcode 25 pcs / unit
- SA-012 sciCHIP Amino with Barcode 25 pcs / unit
- FXO-x sciSWIFT
- FXS-3 sciFLEXARRAYER S3
- FXS-5 sciFLEXARRAYER S5
- FXS-11 sciFLEXARRAYER S11
- FXS-100 sciFLEXARRAYER S100
- FXS-120 sciFLEXARRAYER SX



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