

### eksigent nanoLC –MALDI spotting system

featuring the ekspot™ MALDI spotter

#### reliability and reproducibility meets speed and accuracy

Coupling nanoLC to MALDI mass spectrometry provides an extremely powerful tool for the analysis of complex peptide and/or protein samples in proteomics. The eksigent nanoLC MALDI spotting system couples together the popular and highly reproducible and precise nanoLC system with a highly accurate and fast MALDI spotter to provide a new dimension in LC separations on Maldi targets.

- Control the spotter and the LC from the same software.
- Maximize throughput by collecting fractions on up to 8 microtiter plate size targets (ABI4800) or 16 small targets( ABI 4700)
- Collect a fraction every 4 seconds.
- Configurable as a fraction collector.
- NanoLC reproducibility +/- .5% rsd.
- Low delay volumes (<65nl) resulting in better separations.

#### single point control

Enter the gradient, name the sample, program the flow and press start. It is as simple as that when using this integrated software. One system controls both the nanoLC and the ekspot™ providing simple setup and easy tracking of samples.

#### maximize throughput

The ekspot™ holds 16 ABI 4700 targets or 8 microtiter plate size targets. Each of the targets can hold up to 1000 spots. Generate up to 8000 spots on an overnight run.

#### high resolution spotting

The ekspot™ is designed to deposit fractions eluting from a nanoLC column onto a MALDI plate, with the MALDI matrix automatically being added. Fractions as fast as 4 seconds can be spotted in order to optimize resolution. In combination with the nanoLC's separating power due to low delay volumes, minimal peak dispersion and pumping technology, you will have the most advanced LC-MALDI system available.

#### incomparable reproducibility

The eksigent nanoLC provides retention time reproducibility less than 0.5% RSD. Why try to guess where the peptide of interest resides? Be assured that you know its location run to run, week to week and month to month. This capability is essential for biomarker analysis

#### flexible design

The nanoLC-MALDI spotting system is the most flexible tool for your mass spec needs. The system can also be used for traditional online LCMS analysis. In addition, the ekspot™ can easily be converted to a fraction collector for offline 2D.



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## ekspot™ system specifications

positioning precision: 100  $\mu$   
spotting frequency: user adjustable in 1 sec. steps; 4 sec. minimum  
flow rate range: 200 nL/min to 4  $\mu$ /min for MALDI spotting; up to 50  $\mu$ /min for fraction collection  
matrix pump: syringe pump with auto-refill  
matrix pump volume: 50  $\mu$  standard; 100  $\mu$  and 250  $\mu$  optional  
matrix flow rate range: 400 nL/min to 50  $\mu$ /min with 50  $\mu$  syringe

**plates supported**

- 96/384 wellplate
- AB 4800
- AB 4700 standard and OptiTOF targets
- Bruker AnchorChip
- Waters/MicroMass

**capacity**

4 microtiterplate format targets or 8 AB 4700/Waters targets (optionally 8 and 16)

**software control**

Eksigent Software

**dimensions**

Ekspot system: 21" (53cm) wide, 15" (38cm) deep, 25.5" (65cm) high

**weight**

16kg (35.2lb)

## nanoLC system specifications

pumping system can be either the nanoLC-1D plus or nanoLC-2D  
pump type: Direct flow MFC control  
delay volume: 65nl  
retention time reproducibility: RSD<0.5% at 500nl/min  
flow rate range: 10nl/min-20nl/min depending on configuration

**dimensions**

1D plus: 14" (35cm) wide, 15" (38cm) deep, 8" (20cm) high  
2D: 18" (46cm) wide, 22" (56cm) deep, 8" (20cm) high

## autosampler specifications

autosampler capacity: One 96 well or 384 well microtiter plate  
autosampler temperature control: 5-40° C  
sampling volume range: 100nl-100 $\mu$

**dimensions**

autosampler: 18" (45cm) high sits on top of nanoLC

**service and warranty**

The purchase price includes installation and training by service representatives plus a one-year warranty on parts and labor.

**ordering information**

Description	P/N
ekspot MALDI spotter for nanoLC with 4 micro-titer plate capacity	950-00040
ekspot MALDI spotter for nanoLC with 8 micro-titer plate capacity	950-00047
nanoLC-1D plus system bundle with Ekspot and 4 micro-titerplate standard capacity	950-00048
nanoLC-1D plus system bundle with Ekspot and 8 micro-titerplate standard capacity	950-00049
nanoLC-2D system bundle with Ekspot and 4 micro-titerplate standard capacity	950-00050
nanoLC-2D system bundle with Ekspot and 8 micro-titerplate standard capacity	950-00051
adapter for 2 ABI 4700 targets	620-00135
adapter for 1 AB 4800 target	800-00250
adapter for 1 Bruker AnchorChip 384 MT	620-00136
adapter for two Waters 96/384 Targets	620-00119