

# NanoPlotter™

The Spotting Platform for Reverse Protein Arrays



## Description

Zeptosens, as a single source provider of reverse protein array systems, recommends the NanoPlotter for the spotting of picoliters of complex samples on ZeptoMARK chips.

Reproducible spotting of samples on ZeptoMARK chips is achieved with the NanoPlotter, which is available in different configurations to optimally fit customers' applications. Highly accurate spotting with a variety of samples derived from cells, tissues, as well as body fluids using ZeptoMARK buffers is one of the hallmarks of the NanoPlotter.

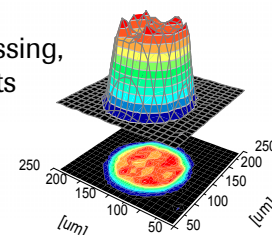
## Benefits and Features

- Ready to use
- Excellent spot quality
- High reproducibility

Especially designed for reverse protein array processing, including SOPs, buffers and software for best results

Cell and tissue lysates as well as body fluids are spotted reliably in combination with ZeptoMARK buffers for highest quality results

CV < 5% at 400pL non-contact dispensing of cell lysates on ZeptoMARK chips using ZeptoMARK buffers



## Specifications

Technical Data	NanoPlotter NP 2.1	NanoPlotter NP 2.1/E
Dispensing accuracy*	CV ≤ 0,05 %	≤ 0,05 %
Dispensing precision **	CV < 2 %	< 2 %
Minimum sample volume	5 µL	5 µL
Mechanical repeatability	± 10 µm	± 10 µm
Dimensions, including hood (w x d x h)	63 x 53 x 38 cm	98 x 53 x 38 cm
Weight, including hood	30 kg / 66 lbs	50 kg / 110 lbs

\* 250 µl syringe, 3000 steps, variation coefficient of accuracy when running with full stroke

\*\* CV for dispensing 100 water drops

NanoPlotter is a trademark of and is manufactured by Gesellschaft fuer Silizium-Mikrosysteme mbH

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## NanoPlotter™

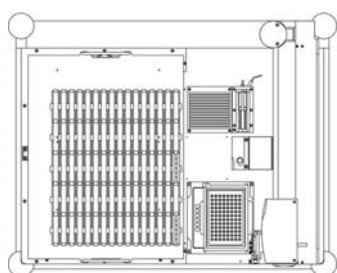
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### Configurations

Different configurations have been designed to optimally fit each customer's specific application and throughput needs.

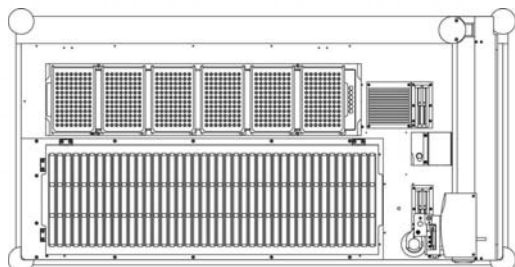
#### NanoPlotter 2.1, 3 Channels – The Compact Platform



Maximum number of samples per run	384
Maximum number of chips per run	80

Typical study sizes	32 samples	100 proteins
samples spotted in 4 dilutions	64 samples	60 proteins
and duplicate	384 samples	12 proteins

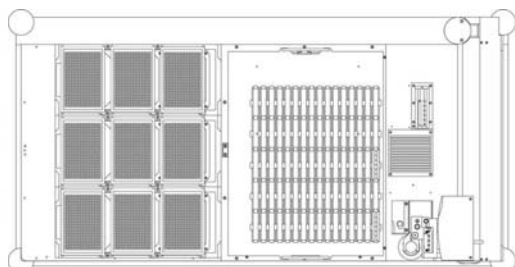
#### NanoPlotter 2.1/E, 3 Channels – The Biomarker Platform



Maximum number of samples per run	2304 6 x 384
Maximum number of chips per run	123

Typical study sizes	64 samples	60 proteins
samples spotted in 4 dilutions	128 samples	80 proteins
and duplicate	192 samples	100 proteins

#### NanoPlotter 2.1/E, 6 Channels – The Screening Platform



Maximum number of samples per run	3456 9 x 384
Maximum number of chips per run	80

Typical study sizes	192 samples	60 proteins
samples spotted in 4 dilutions	384 samples	30 proteins
and duplicate	864 samples	24 proteins

All platforms are configured to generate best quality spotting results and include:

- Cooled deck for sample plates and chips
- Humidifier prevents evaporation and conserves picoliter volumes
- StroboCheck for automated quality control of pipetting
- Housing for controlled processing of chips
- Computer and software for system control