

OmniGrid® Micro

The compact and flexible microarrayer for entry-level production.



Key Benefits

- **Print Speed:**
10,000 spots/11 slides in less than 3.5 hr (with optional split pin)
- **Compact:**
Table-top design
- **Intuitive Software:**
GUI for easy experiment design
- **Flexible:**
Solid or split pin printing
- **Experienced Applications & Technical Support**

The OmniGrid Micro is designed for producing DNA or protein microarrays on slides. It can accommodate solid- or split-pin printing pins to create high- or low-density arrays for functional genomics research. The **small footprint and 11-slide nest configuration** make the OmniGrid Micro ideal for any laboratory starting out in microarraying.

The OmniGrid Micro can dip into a source plate (e.g. 96 or 384 well plate) and spot the sample solution onto a solid surface (e.g. glass slide, silicon substrate). In touching the surface with the pin, a given volume of sample is deposited onto the surface. Using the optional split microspotting pins, **up to 200 consistent spots can be produced from a single dip**. A vacuum wash station ensures active washing in between sample transfers while humidity control minimizes evaporation of precious sample.

Design Specifications

Dimensions	49" W x 27" D x 18" H (1.2 m x 0.7 m x 0.5 m)
Slide Capacity	11 standard 1" x 3" microscope slides
Plate Capacity	1 plate, 96- and 384-well plates; compatible with a variety of manufacturers
Pin Configuration	16 solid pins included; up to 32 split pins (optional)
Positional Resolution	1.3 μm ; robust motors and linear stages
Precision/Accuracy	$< \pm 10 \mu\text{m}$
Feature Size	75 to 360 μm (depending on pin type)
Printing Pin Cleaning	Customizable combination of water/fluid wash and vacuum dry
Enclosure	Transparent cover, humidity control

Software Specifications

Multi-user	Multiple user access levels
Customizable	Create custom array and wash protocols
Flexible Settings	Protocol options include pin configuration, slide origin offset and array design
Memorized Calibrations	Save calibrations for multiple source plate types and brands
Sample Tracking	Track sample placement in arrays; utilize imported plate lists to generate deconvoluted text file

Options

Control Computer	800 MHz (or higher) Intel Pentium processor; 128 MB RAM, Windows Operating System
Split-Pin Printhead Kit	Mounting hardware, printhead and wash/dry stations for up to 32 split pins

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The logo for Digilab, featuring the word "DIGILAB" in a bold, blue, sans-serif font. The letter "A" is stylized with a grey triangle pointing upwards, and a registered trademark symbol (®) is located to the right of the word.