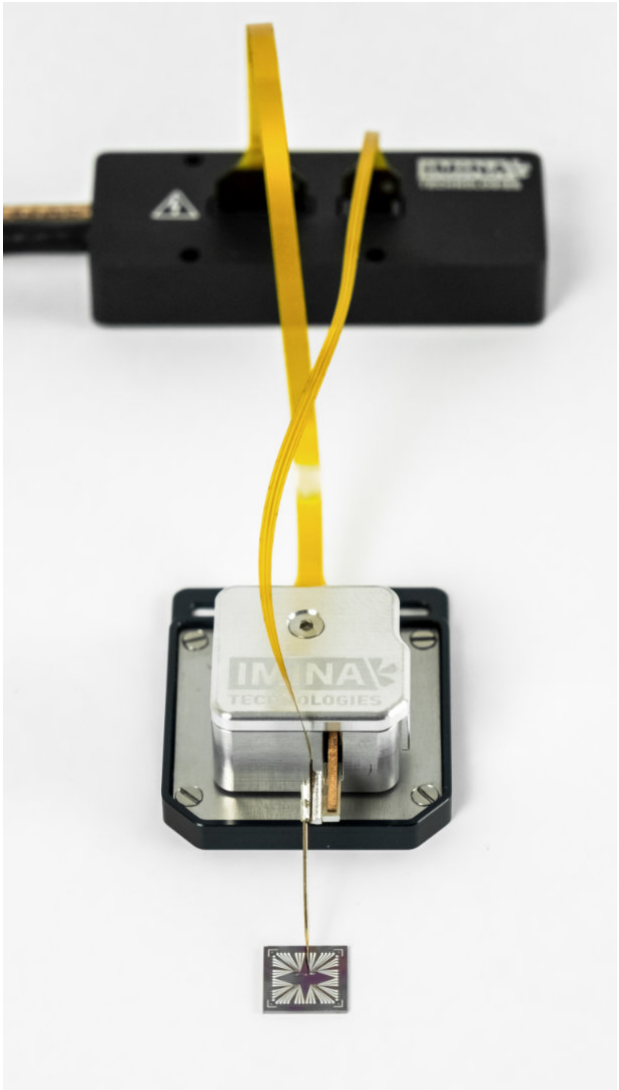
PRODUCT SHEET
MP1-K1

Microprobing Platform Kit (1-Bot)

Compact and lightweight, our Microprobing Platform Kit (1-bot) adds electrical characterization or manipulation capability to the most crowded setups. It can be grouped with other 1 or 4-bot Platform Kits to build the exact configuration required by the user.

Compatible with

- Upright and inverted optical microscopes (incl. short working distances);
- Probe stations;
- Raman spectroscopes;
- Semiconductor inspection tools;
- Atomic force microscopes (AFM);
- Nanoindenters;
- Glove boxes and environmental chambers.



Versatile applications

Our MICRO solutions can be used to characterize semiconductor, photonic, optoelectronic, MEMS and bioelectronic devices, as well as for other applications in nanotechnology, materials science and energy storage.

Compact, versatile & scalable platform

This kit is ideal for setups with limited space and ensures easy handling and integration into existing systems.
The 1-bot platform kit includes a standard 1-bot stage, which can be tailored to specific shapes and dimensions upon request, and allows for seamless integration of additional 1-bot kits as needed.

Safe, reliable and precise measurements

miBots™ are driven by piezo actuators with nm-scale positioning resolution. Thanks to that, the probes can safely land on fragile samples or small features and establish electrical contact without damaging the samples.

User-friendly control interface

All our solutions are easy to learn and to use. With our intuitive software suite Precisio™, users can easily control and set up the system and streamline their workflow.

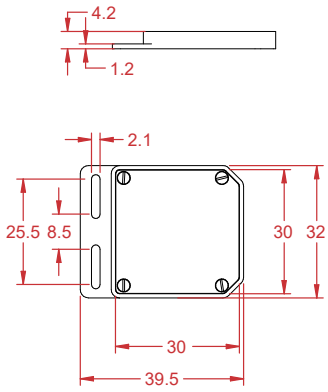
Satisfied users

Our setups are installed in more than 200 labs around the world. Most of our users would recommend Imina tools to their colleagues or buy them again if they changed the lab. Our users praise miBots for their precision, flexibility, efficiency and ease to use, and comprehensive documentation.

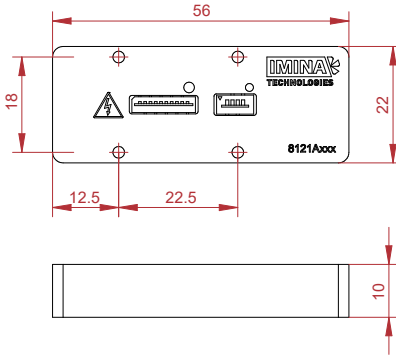
Swiss quality

All products of Imina Technologies are designed and assembled in Switzerland, according to the highest standards of precision engineering and manufacturing, and meticulous attention to detail.

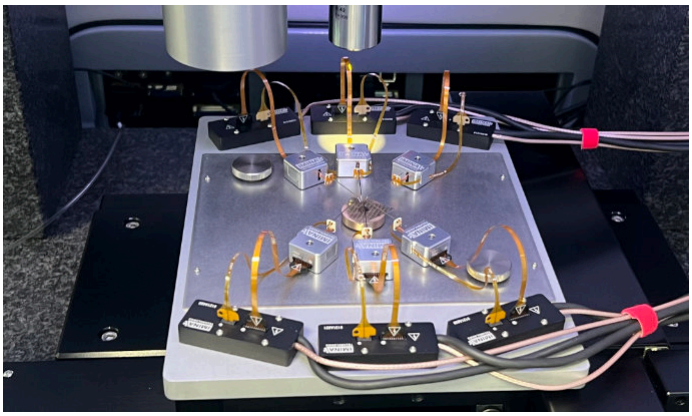
Platform kit	
This kit includes	1x 1-Bot stage 1x 1-Bot connection interface (cabling comes out either on the right or the left upon request) 1x probe holder 1x box of miBot flex cables
Electrical probing	Interface: 4 coaxial (BNC) connectors Voltage range: ± 100 V (DC / AC Peak) Current range: 1pA – 500mA (DC / AC RMS) Resistance: approx. 3.5 Ω From probe tip to BNC connectors
Dimensions	1-Bot stage: Width: 25.5 mm, Depth: 39.5 mm, Height: 4.2 mm 1-Bot connection interface: Width: 56 mm, Depth: 22 mm, Height: 10 mm Dimensions without cables
Motorized probes	
Number of probes	1 miBot™ More miBots can be added to the setup by multiplying the number of individual platform kits
Degrees of freedom	4 independently driven per probe (X, Y, R, Z)
Motion	Positioning resolution down to 100 nm in the MICRO configuration Option to improve the resolution down to 0.02 nm available upon request
Probe tips	Compatible with probe tips with 0.51 mm (0.020”) shank diameter and various tip radii (5 nm - 1 um)
User interface	Precisio™ software application (Microsoft® Windows)



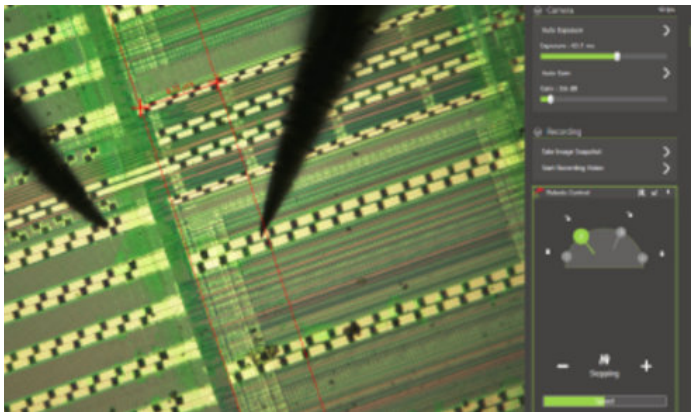
1-Bot stage



1-Bot connection interface



Example of integration of six Microprobing Platform Kits (1-bot) on a nanoindentor.



Precisio™ software microscope window with controls for imaging parameters, tools for recording, annotation, and dimensional measuring.

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