

P200L 200mm semi-automatic probe station

Designed for low current, sub-micron positioning applications, the Micromanipulator P200L comes standard with features such as single-point ground and integrated thermal chuck plumbing. Built for reliability as well as precision, the P200L features leadscrew - leadnut stage and platen drives, a stainless steel platen with removable front wedge and high stability microscope bridge that supports all high-resolution long-working distance microscopes.

The P200L's versatile controller supports USB, GPIB, RS-232 and TCP/IP communications (configured with proper options). The stage X-Y and platen (Z) are motorized / programmable. Microscope motorized / programmable control is also an option. The system may be controlled via scripts and all popular parametric test analytical prober drivers. An indexing script with user GUI and a Labview VI is provided allowing use of the system right out of the box.

Programmable axes are also controllable via optional netProbe7 software with its extensive GUI featuring Navigation, Wafer Map, Sub-die and Video applications and Router app for GPIB connectivity (order netProbe7 separately).

Joystick control allows for easy and quick operation when programmability is not required. The joystick intuitively operates the station stage and platen (Z). Joystick control is provided for the system microscope X-Y and Z for systems so configured.

The P200L may be configured with a local dry / shielded / dark environment (option shown in photo with front wedge open) and "Top Hat" for low level or low temperature probing.

The P200L is the station of choice for a high performance, full capability and cost-effective 200 mm semi-automatic probe station.



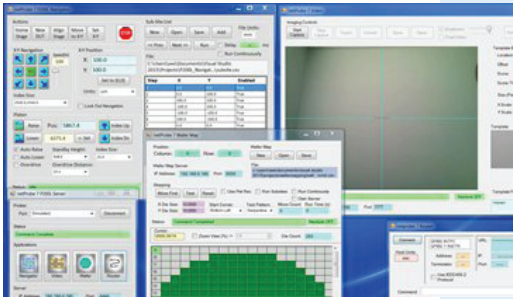
Micromanipulator



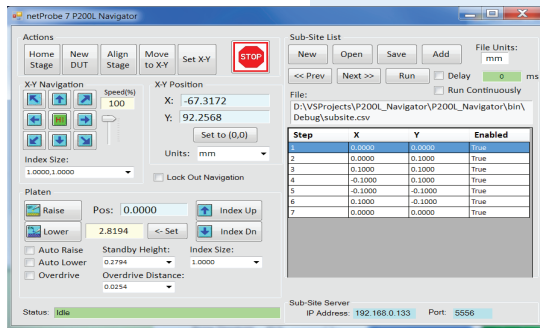
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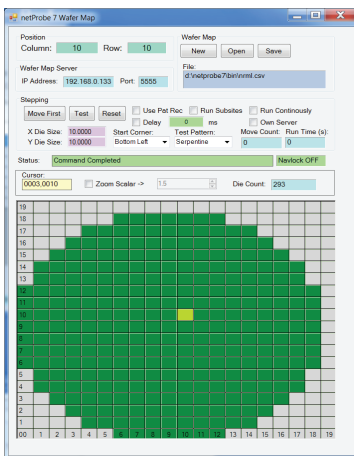
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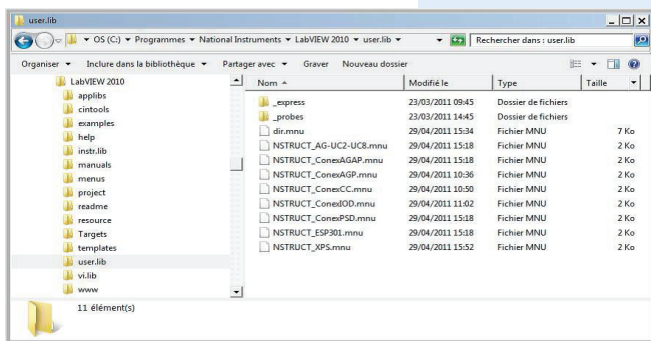
netProbe7 (optional) software



netProbe7 (optional) Navigator



netProbe7
(optional)
Wafer Map



NI - Labview VI Library

P200L Feature Overview:

- High Stability Machined base and microscope bridge for small target probing supports all high resolution microscopes.
- Stainless Steel platen supports vacuum or magnetic base manipulators and provides long-life attractive finish. Removable front wedge provides additional room for manipulators and entry port when configured with local dry / dark environment.
- Stage construction features cast stage cores and cross-roller bearing construction for stability and ruggedness. Leadscrew - leadnut stage and platen drives provide high precision as well as long life by distributing drive force over a large contact area.
- Compact form factor enhances stability and provides small footprint to minimize lab space requirements.
- Local control of the station/platen (and optional microscope) X-Y-Z drives is provided by joystick.
- Programmable control of stage / platen via user host interface (USB and RS-232 standard, GPIB and TCP/IP available) through high level command set. Indexing app with X-Y indexing and Platen Up/Down positioning control provided standard. National Instruments Labview control library and controller VI provided standard

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Station specifications:

- Footprint (Width x Depth) 22.75" x 23.35" (57.7 x 59.3 cm).
- Station Width, Depth, Height 28.5" x 26.75" x 21.5" (72.5 x 68.0 x 55.0 cm). Weight 250 lb (115 kg).
- Stage 200 x 200mm (X-Y), x 25mm (Z - platen) drive range: Supports wafers / samples up to 200mm.
- Stage resolution 0.5 micron, accuracy +/- 5 um, repeatability +/- 2 um. Supports probing of the smallest targets.
- Stainless steel (magnetic) platen with 4-point motorized / programmable 1 um resolution leadscrew drive +/- 1um repeatability:
- Manual Theta control with 0.7 um resolution - 15 degree range standard. Motorized / programmable theta drive optional.
- Manual Microscope 100 x 100mm (X-Y), x 50mm (Z) drive range: Additional 32 mm Z mechanical positioning of microscope Z standard. Motorized / programmable microscope drive (shown in photo) optional.

Full range of accessories and options available including:

- Independent Microscope lift, and adjustable Microscope Lift Delay (shown in photo - lifts microscope with platen raise) optional
- Integrated dry/dark enclosure: Provides EMF shield and enclosure for low temperature chuck dryness
- Probe card holders, Light Tight Enclosures, Thermal Chucks, Video accessories, Manual/Motorized manipulators.