



**Wentworth
Laboratories**

www.wentworthlabs.com

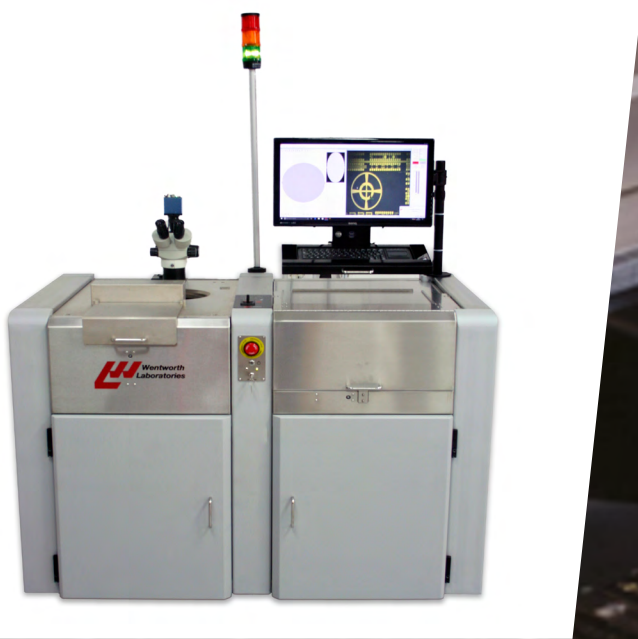


AUTOMATIC PROBER

A200

**FULLY AUTOMATIC
PROBE STATION**

Advanced automation for high volume probing applications requiring special handling, such as GaAs, saw frames, ceramics and silicon.



PEGASUS™ A200 FEATURES

- ✓ High throughput cassette to cassette automation.
- ✓ Automatic wafer handling, pattern recognition and wafer probing.
- ✓ Wafer pre-alignment and wafer detection.
- ✓ Many automation options.
- ✓ Customizable product enhancing hardware and software options.
- ✓ Performance thermal chuck solutions.
- ✓ Wide range of product enhancing accessories.
- ✓ Robust mechanical design.

Leader In ProbeAbility

MEETING YOUR PROBING CHALLENGES

VERSATILE AND COST-EFFECTIVE PROBING

The Pegasus™ A200 series offers dual-end, parallel processing of wafers which optimizes wafer handling for maximum throughput.

Designed for easy access when manually loading and unloading wafers the Pegasus™ A200 has a capacity of two cassettes, each containing 25 wafers.

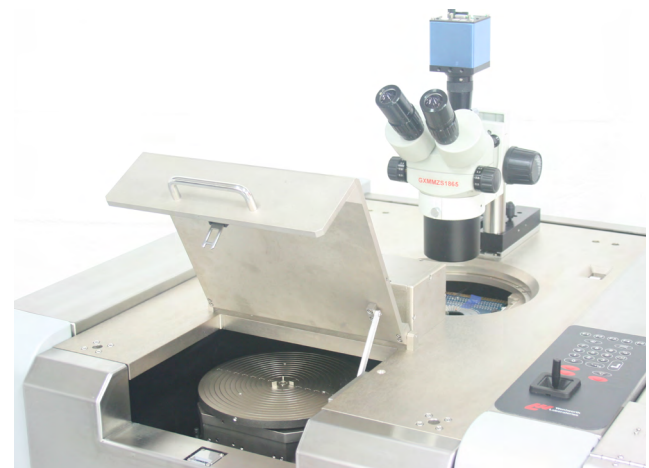
Featuring a highly advanced, single-stage wafer detection pre-alignment and transportation system, the Pegasus™ A200 ensures long-term accuracy and repeatability.

The Pegasus™ A200 Series probers deliver menu-driven, push button control via proprietary LabMaster™ control and monitoring software.

An extensive range of control and monitoring parameters enable users to operate Pegasus™ A200 Series probers at peak performance, including: realtime monitoring and test setup; yield analysis of both the wafer and batch under test; premium mapping capability; image analysis, and a host of other advanced features.

Configurable to voltages in excess of 5 kV for specialized applications

Optional thermal chuck capability.

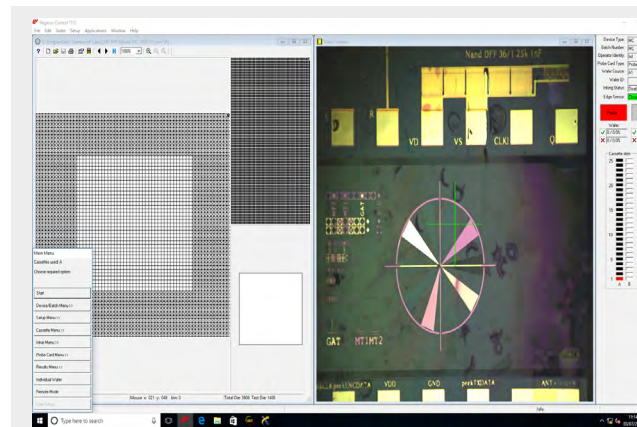


Pegasus™ A200

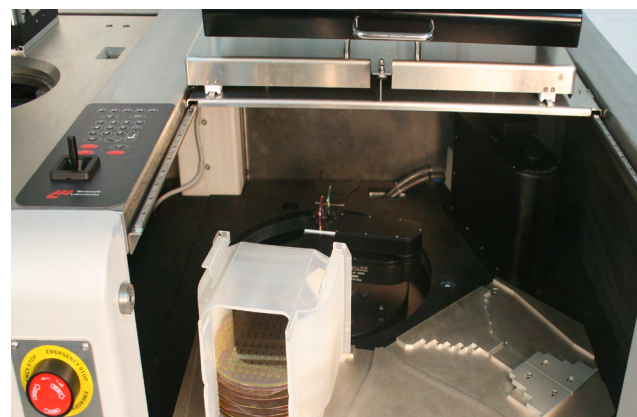


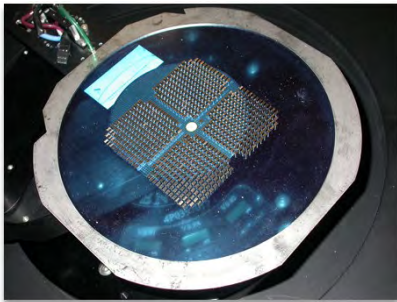
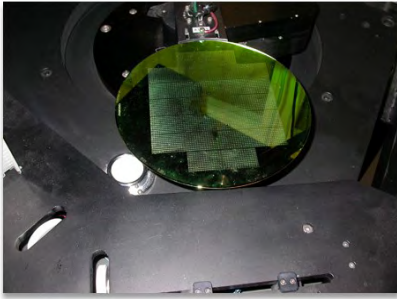
PATTERN RECOGNITION SYSTEM; ROBOT HANDLING SYSTEM; CONFIGURABLE TO VOLTAGES IN EXCESS OF 5 KV FOR SPECIALIZED APPLICATIONS; OPTIONAL THERMAL CHUCK CAPABILITY.

- ✓ Menu-driven, push button control.
- ✓ Real-time monitoring and test setup.
- ✓ Yield analysis of both the wafer and batch under test.
- ✓ Premium mapping capability.
- ✓ Probe to pad alignment for saw frame die.



Pegasus™ A200 Control & Monitoring





SPECIAL HANDLING

Wentworth's Pegasus™ A200 automatic prober for 2-inch to 8-inch wafers, is ideal for high volume, special handling applications such as GaAs, saw frames, ceramics and silicon.

PROBER		WAFER HANDLER	
XY STAGE		ROBOT	
Type	High precision re-circulating ball screws	Speed	1270 mm/s (R), 254 mm/s (Z), 800 °/s (Ø)
Stage Travel	210 mm x 210 mm (8.3" X 8.3")	Positional Repeatability	12.7 µm (Z), 38.1 µm (R)
Resolution	1.25 µm	Flat Orientation	0.01°(Ø) at constant temperature
Accuracy	± 7 µm over 200mm	Pre-Alignment Accuracy	± 63.5 µm ± 0.125°
Repeatability	± 4 µm	Repeatability	± 4 µm
XY Speed	Up to 100 mm/s	XY Speed	Up to 100 mm/s
Automatic Alignment Repeatability	± 5 µm		

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