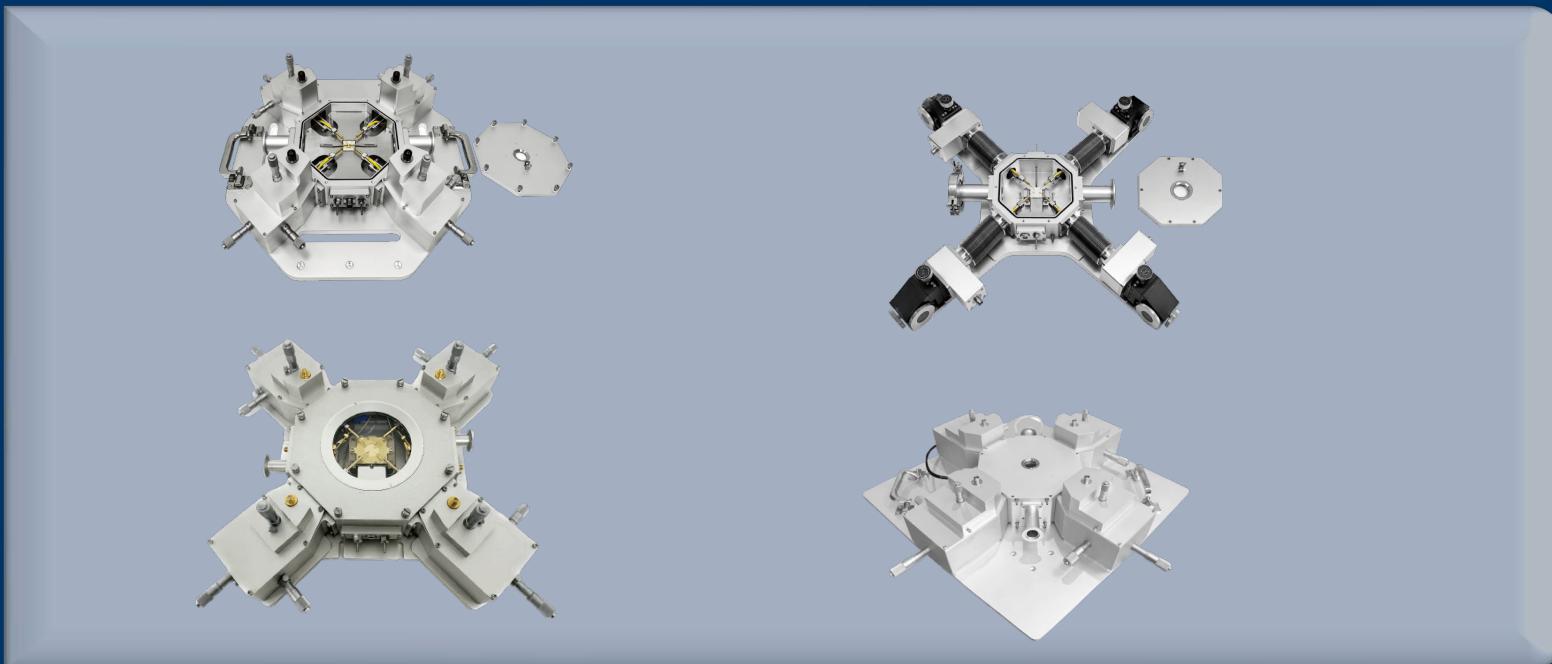


Electrical ExtProbe Stage

External / internal displacement mechanism, with high-precision adjustability + high stability + wide temperature range coverage

- High-precision probe adjustment and signal transmission
- Highly stable temperature control and wide scene adaptation
- Vacuum environment and optical compatibility design



One Platform Many Possibilities

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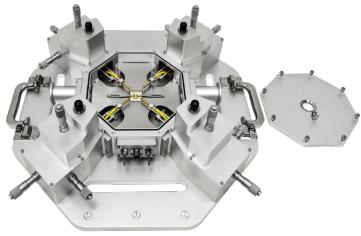
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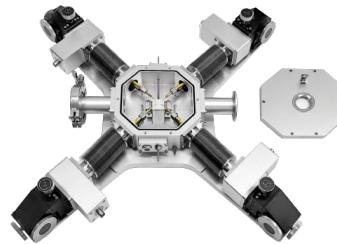
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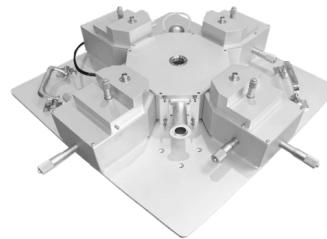
VLE-190-400EM



VLE-190-400EB



VLE-25-120EM



VLE-RT-1000EM

Overview

Product Introduction of ExtProbe Stage:

Designed specifically for variable-temperature in-situ electrical testing, it comes standard with a vacuum chamber (customizable atmosphere chamber) and JGS2 quartz glass windows. It supports reflected light paths and photoelectric synchronous testing, with a temperature stability of ± 0.1 . Equipped with an XYZ-axis adjustable displacement mechanism (stroke $\pm 6\text{mm} \sim \pm 12.5\text{mm}$), highly conductive probes (tungsten steel gold-plated / tungsten-rhenium coaxial), and triaxial BNC interfaces, it is compatible with instruments such as source meters and LCR bridges. It can cover a temperature range of $-190 \sim 1000$, meeting the needs of in-situ electrical testing in vacuum environments for semiconductors, two-dimensional materials, ceramics and other fields, and supports multi-language SDK custom integration.

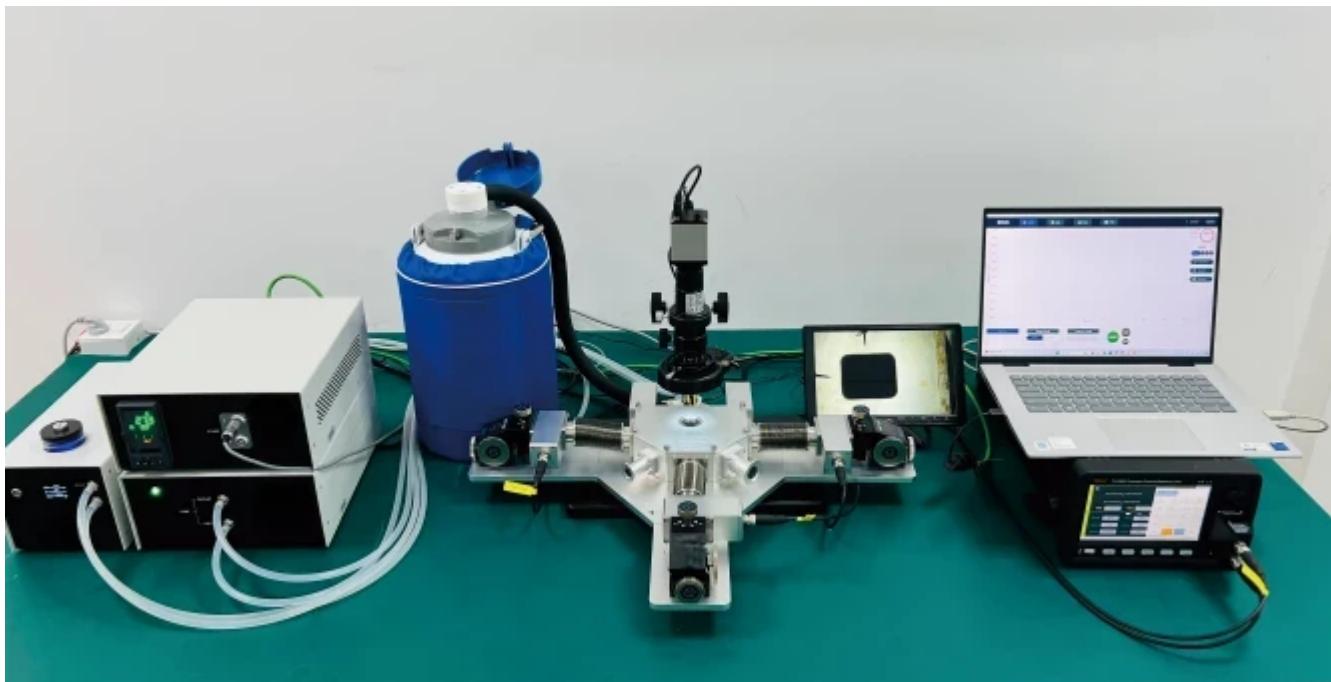
Specifications

Parameter table for 4 models of external adjustment probe stations with the same parameters

Parameter Item	Parameter Value
Temperature Stability	± 0.1
Probe Interface Type	Triaxial BNC Interface
Sample Stage Potential Mode	Ground/Electrically Floating
Basic Chamber Configuration	Vacuum (Customizable Atmosphere Chamber Available)
Optical Path Support	Reflective Optical Path
Window Material	JGS2 Quartz Glass (Transmission Bandwidth: 220nm~2500nm, Removable and Replaceable Manually)
Probe Adjustment Dimension	XYZ Axis
Compatible Instrument Type	Electrical Meters (Source Meters, LCR Bridges, etc.)
Probe Material Type	High-Conductivity Material (Tungsten Steel Gold-Plated/Tungsten-Rhenium Coaxial)

Application

Customize an external regulation probe thermal stage for temperature-varying test research on field-effect transistors/MOS transistors, etc.



Explore Series

Model	Sample Stage	XYZ Axis Stroke	Heating & Cooling Method	Temperature Range
VLE-190-400EM	Silver/23mm×23mm	±6mm	Liquid Nitrogen Cooling + Resistance Heating	-190°C~400°C
VLE-190-400EB	Silver/23mm×23mm	±6mm	Liquid Nitrogen Cooling + Resistance Heating	-190°C~400°C
VLE-25-120EM	Copper/40mm×40mm	±6mm	TEC (Peltier Effect)	-25°C~120°C
VLE-RT-1000EM	Ceramic/20mm×20mm	±12.5mm	Resistance Heating	RT~1000°C

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

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