



ACS Material Equipment Series

InSitu Pro™ AECHO600SB

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I. Product Composition

1) Main Unit

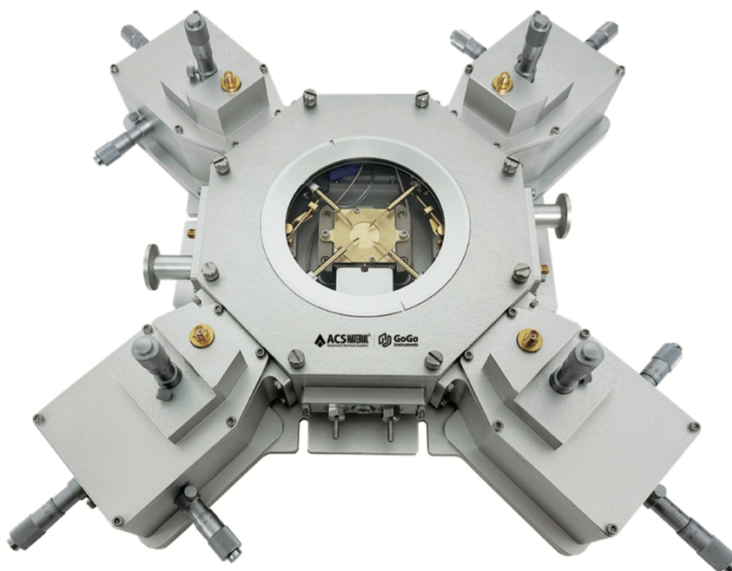


Photo of InSitu Pro™ AECHO600SB

II. Product Features

The machine is a product designed for studying the variable temperature electrical properties of samples. It can characterize the changes in the electrical properties of samples with temperature variations. The product utilizes a semiconductor-based heating and cooling method (thermoelectric cooling), enabling precise temperature control within the range of -25 to 120°C. It can be integrated with other electrical instruments (such as bridges, source meters, and multimeters) for variable-temperature in-situ testing.

The product needs to be used with a temperature controller. The accompanying temperature control software on the host computer facilitates temperature setting and data acquisition. The provided LabVIEW Vis/C# SDK allows customers to perform customized programming.

III. Product Specifications

InSitu Pro™ External Adjustment Probe Stage B- AECHO600SB					
SKU#	EIPOCHB1				
Temperature Control Module	Cooling And Heating Method	Semiconductor	Structural Properties	Sample Stage Size	40x40mm *
	Temperature Control Range	-25 ~ 120 °C *		Sample Stage Material	Brass *
	Temperature Stability	±0.1°C		Overall Dimensions	375x375x66mm *
	Temperature Resolution	0.1°C		Sample Chamber Height	11mm *
	Heating and Cooling Rate	0~30°C /min (Programmable point control or segmented control), up to 150°C/min		Chamber	Vacuum*
	Temperature Control Method	PID		XYZ Displacement Range	±6.5mm
	Temperature Sensor	PT100		Probe Displacement Accuracy	10µm
Optical Properties	Optical Path	Reflective optical path * (optional transmissive optical path)	Electrical Properties	Probe	Adjustable probes x4, Fixed probes x2 *
	Window Material	Quartz glass (manually removable and replaceable) *		Probe Connector Type	SMA x 8 *
	Window Dimensions	Ø100mm *	Basic Configuration	Sample Table Potential	Default electrical suspension *, optional electrical grounding
	Objective Working Distance	14mm *		1 main machine, 1 temperature controller, 1 water circulation system, and 1 temperature control software, and 1 bottom XY axis displacement stage (compatible with optical platform).	

	Light Transmission Aperture	Default no light transmission * (optional with light transmission aperture)	Optional	Computer main unit / installation bracket / vacuum system / custom temperature control software.
	Window Defrosting	Airflow defrosting at sub-zero temperatures		
Note	All parameters above are default. Items marked with * are customizable.			

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