



ACS Material Equipment Series

InSitu Pro™

AH1500-RG /AH1400-RG-XY

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I. Product Composition

1) Main Unit



Photo of AH1500-RG

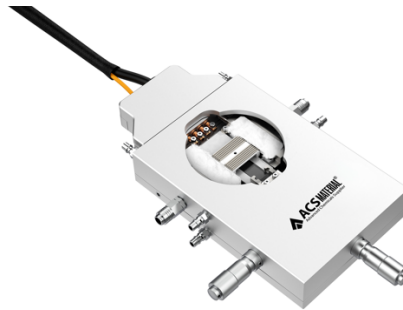


Photo of AH1400-RG-XY

II. Product Features

InSitu Pro™ AH1500-RG and AH1400-RG-XY are designed for studying the temperature-dependent optical performance of samples. It can characterize the changes in the optical properties of samples with temperature.

AH1500-RG has a temperature range of RT to 1500 °C. It features a furnace-type sample stage with an off-center rotating glass viewing window to maintain clear visibility during testing. The AH1400-RG-XY has a temperature range of RT to 1400°C. It features a tunnel-type sample stage; the sample is movable with X/Y axis travel distances of $\pm 6\text{mm}$ / $\pm 5\text{mm}$.

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™ Ultra-High Temperature Heating Stage		
Model #	AH1500-RG	AH1400-RG-XY
SKU#	EIAH15RG	EIAH14RY
Heating/ Cooling Method	Resistive heating	
Temperature Range	RT ~ 1500° C	RT~1400° C
Temperature Stability	±0.1°C	
Temperature Control Rate	Maximum heating rate: 150 °C/min; Natural cooling	
Sample Stage	Ceramic; $\phi 8 \times 2$ mm circular groove	Ceramic; 20 x 4 x 20 mm through groove
Optical Path	Transmissive ($\phi 5$ mm light transmitting hole)	Reflective
Top Window Size	$\phi 3 \times 1.5$ mm	$\phi 3 \times 2$ mm

Bottom Window Size	$\phi 10 \times 1 \text{ mm}$	-
Window Material	quartz glass (transmission wavelength range: 220 nm–2500 nm), manually removable and replaceable	
Dist. From Top Window to Sample Stage Surface	7.5 mm	11.6 mm
Chamber Height	4.3 mm	4 mm
Sample Stage Movement	-	X/Y axis moving distance $\pm 6 \text{ mm}/\pm 5 \text{ mm}$ Accuracy: 0.01 mm
Chamber	Air	
Dimensions	165 x 78 x 32 mm	190 x 100 x 31.5 mm
New Weight	1.1kg	1.1kg
Basic Configuration	1 x main unit, 1 x temperature controller, 1 x water circulation system, 1 x software	

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