

## Specifications:

Weight	260g
Dimensions L x W x H	114 x 110 x 7.8mm
Maximum Voltage input	12V
Maximum Rated Power Output	20W
Maximum Temperature	65 °C
Carrier size	35mm
Fitting on Microscopes	Leica, Nikon, Olympus, Zeiss
Resistance	10 ohm

Tapped holes: 2 x M-4 and 11 x M-3.05 (Note that threads in holes may be sealed with paint to resist rust when shipped and may require tapping to clear.)

Coatings: Outer ring: Powder coated carbon steel, inner ring: Anodized aluminum.

## Warranty Heated Chamber Stage

ALA Scientific Instruments, Inc. agrees to warranty this product against defects in material and workmanship for one year from date of shipment. Remedy shall be limited to replacement or repair of the item(s) at ALA's discretion. The usage of this product by the user will indicate the users understanding of the use of this product as set forth in this manual. Neither ALA Scientific Instruments, Inc., nor any of its affiliates will be held responsible for damage to laboratory equipment, including microscopes, resulting from the use or misuse of this product, including damage resulting from inputs exceeding specified limits that result in malfunction to or from this device. This device is capable of producing substantial heat and precaution should be taken to insure it cannot over-heat.

In the event that warranty repairs are necessary, shipping charges to the factory are the customer's responsibility. Return charges will be paid by ALA Scientific Instruments for warranty repairs only.

This instrument is not for clinical use. It is strictly for basic research in a laboratory setting. It has no clinical application whatsoever and cannot be used on human subjects.



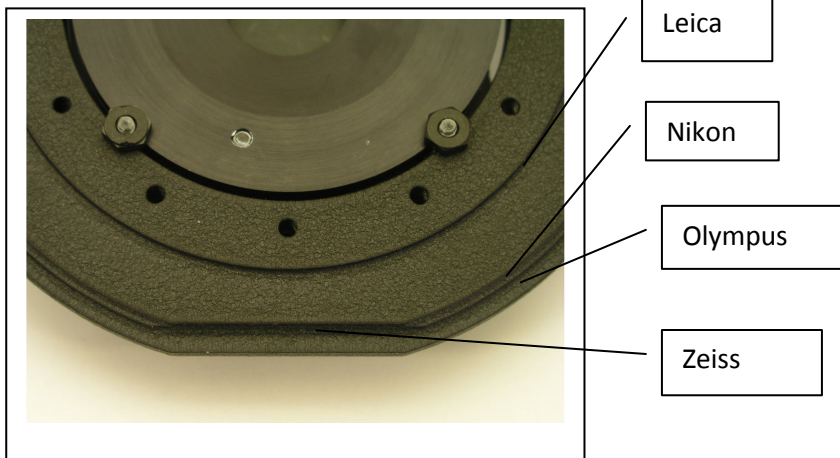
## About

The Heated Chamber Stage (HCS) is a comprehensive device for heating or warming a cell bath chamber on a microscope. Facets on the underside enable secure mounting on Nikon, Olympus, Leica and Zeiss microscopes, although Zeiss K and M stages require additional armatures which must be ordered at the time of purchase. The HCS can be drop mounted on any of the above stages and its weight will secure its position.

The outside ring is made from magnetic steel so that magnetic tools (ALA-MPIOH) can be mounted. The ring also features 11 M-3 tapped holes so that extension plates (ALA-EXT) or other tools can be screwed down.

The inner ring features a central opening that accommodates 35mm Corning petri dishes and all ALA-MS chambers with a 19mm viewing port. Two 20 Ohm resistors wired in parallel power the heated ring which is comprised of anodized aluminum. A single 2252 ohm thermistor gives feedback on the temperature of the stage.

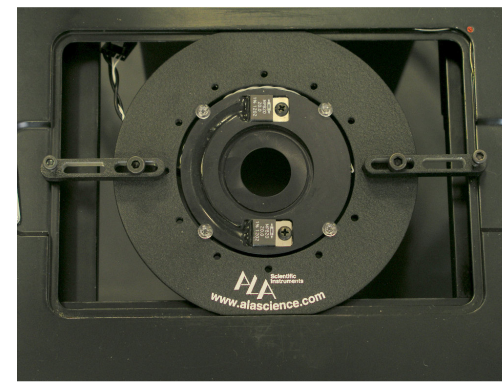
## Mounting



NOTE: Nikon and Olympus stages only have the facet for Nikon or Olympus stage—photo showing both is for illustration. (N) or (O) on stage indicates which microscope stage. (Facets for Zeiss and Leica appear on all versions.)



Nikon version

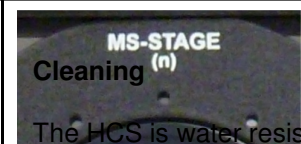


Mounting system for **Zeiss K** stage. Two armatures are attached to stabilize the HCS in the K frame opening.

Please note that there are an alternative set of brackets for **Zeiss M** stage available from ALA.

## Usage

The HCS can be used anytime you need to keep a cell bath at a temperature above room temperature. It can be used with any temperature controller with a maximum 12V DC output and the ability to monitor a 2252 Thermistor.



The HCS is water resistant, not water tight, so it is best to clean it by wiping it down with mild soap and water. Do not submerge as that may result in electrical damage. After cleaning, be sure the unit is dry before powering up.