

Thank you for your purchase of the **SUN-1** lamp with controller. This device is well made and will provide years of trouble free use.

Notes

Please consider the following notes when using the **SUN-1**:

- The lamp houses a dichroic reflector which dissipates 60% of the heat generated by the bulb. Consequently, the sample is exposed to less radiant heat at the expense of a warmer lamp head. Use care when making adjustments to the lamp head as it may be warm to the touch.
- We recommend placing a paper towel under the magnetic base during initial placement as the magnet is very powerful and you may find it difficult to reposition the lamp once it has attached to your tabletop. The paper towel will reduce the coupling strength between the magnet and tabletop.
- If the lamp does not light when the controller is powered, first check to see if the switch at the base of the gooseneck is turned on.
- A dual function rack mount controller is available.

Assembly

1. The lamp is shipped with magnetic base separate. Attach the magnetic base to the bottom of the lamp assembly using the four supplied screws.
2. Make sure the power switch on the base of the lamp is in the *on* position.
3. Place the lamp into position in the cage. Run the lamp cable to the control unit and plug it into its connector.
4. **IMPORTANT:** Make a ground connection from (1) the GREEN BANANA JACK on the lamp controller to the common ground of your setup, and (2) from the base of the lamp to the common ground inside of your Faraday cage. If these connections are not made the lamp will radiate EMF into your Faraday cage.
5. Plug the power adaptor into a convenient wall a plug, power the device and test for operation.

Specifications

Lamp:	High impact polyamide housing; swivel head; spot reflector; clear lens, Halogen bulb, dichroic reflector; 12W-12V
Gooseneck:	1.4 cm dia. x 30.5 cm length; with PVC sleeve
Tabletop Controller:	Eight position with on/off switch; 120 V wall mount adapter

Replacement parts

SUN-DCH	Replacement 12W-12V Dichroic bulb for SUN-1 lamp
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Declaration of Conformity
CE MARKING (EMC)

Application of Council Directive: 89/336/EEC

Standards To Which Conformity
Is Declared:

EN55022 Class A
EN61000-3-2
EN61000-3-3
EN50082-1:1992
EN61000-4-2
EN61000-4-3
ENV50204
EN610000-4-4
EN610000-4-8
EN610000-4-11

Manufacturer's Name:
Manufacturer's Address:

Warner Instruments, LLC
1125 Dixwell Avenue
Hamden, CT 06514
Tel: (203) 776-0664

Equipment Description:

Halogen Light Source

Equipment Class:

ITE-Class A

Model Numbers:

SUN-1

***I the undersigned, hereby declare that the equipment specified
above, conforms to the above Directive(s) and Standard(s).***

Place: Hamden, Connecticut USA

Signature:



Full Name: Burton J. Warner

Position: President

Declaration of Conformity
CE MARKING (LVD)

Application of Council Directive: 73/23/EEC

Standards To Which Conformity Is
Declared:

EN61010-1:1993

Manufacturer's Name:

Warner Instruments, LLC

Manufacturer's Address:

1125 Dixwell Avenue
Hamden, CT 06514
Tel: (203) 776-0664

Equipment Description:

Halogen Light Source
Safety requirements for electrical
equipment for measurement and
laboratory use

Equipment Class:

Class I

Model Numbers:

SUN-1

***I the undersigned, hereby declare that the equipment specified
above, conforms to the above Directive(s) and Standard(s).***

Place: Hamden, Connecticut USA

Signature:



Full Name: Burton J. Warner

Position: President

WEEE/RoHS Compliance Statement

EU Directives WEEE and RoHS

To Our Valued Customers:

Harvard Apparatus is committed to being a good corporate citizen. As part of that commitment, we strive to maintain an environmentally conscious manufacturing operation. The European Union (EU) has enacted two Directives, the first on product recycling (Waste Electrical and Electronic Equipment, WEEE) and the second limiting the use of certain substances (Restriction on the use of Hazardous Substances, RoHS). Over time, these Directives will be implemented in the national laws of each EU Member State.

Once the final national regulations have been put into place, recycling will be offered for those Harvard Apparatus products which are within the scope of the WEEE Directive. Products falling under the scope of the WEEE Directive available for sale after August 13, 2005 will be identified with a "wheelie bin" symbol.

Two Categories of products covered by the WEEE Directive are currently exempt from the RoHS Directive - Category 8, medical devices (with the exception of implanted or infected products) and Category 9, monitoring and control instruments. Most of Harvard Apparatus' products fall into either Category 8 or 9 and are currently exempt from the RoHS Directive. Harvard Apparatus will continue to monitor the application of the RoHS Directive to its products and will comply with any changes as they apply.



- Do Not Dispose Product with Municipal Waste.
- Special Collection/Disposal Required.

Warner Instruments

1125 Dixwell Avenue, Hamden, CT 06514 USA
(203) 776-0664 • (800) 599-4203 • Fax (203) 776-1278
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