



AvaLight-CAL Spectral Calibration Light Source

Safety Instructions

Instructions: All the safety and operating instructions should be read before the unit is operated. Before using the power supply for the first time check for transport damage.

Warning: All warnings on the unit and in the operating instructions should be adhered to.

Unpacking Instructions:

Your package should contain:

1 – AvaLight-CAL

1 - This manual

! You need a Power Supply 12VDC, we recommend our PS-12VDC/1.25A

- 1) Unpack your lamp assembly carefully. Although the lamp is rigidly mounted dropping this instrument can cause permanent damage.
- 2) Inspect the outside of the instrument and make sure that there is no damage to your unit. In case of damage contact the dealer immediately and **DO NOT USE THE INSTRUMENT!**
- 3) Use this instrument in a clean laboratory environment.

Moisture

The unit is designed for operation in dry rooms only.

Ventilation

The unit should be situated so that its location or position does not interfere with its proper ventilation.

Heat

The unit should be situated away from radiators, hot bodies, ovens or other heat sources.

Power Sources

The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. 12 VDC 1000mA analogue regulated (Code: PS 12VDC/1.25A)

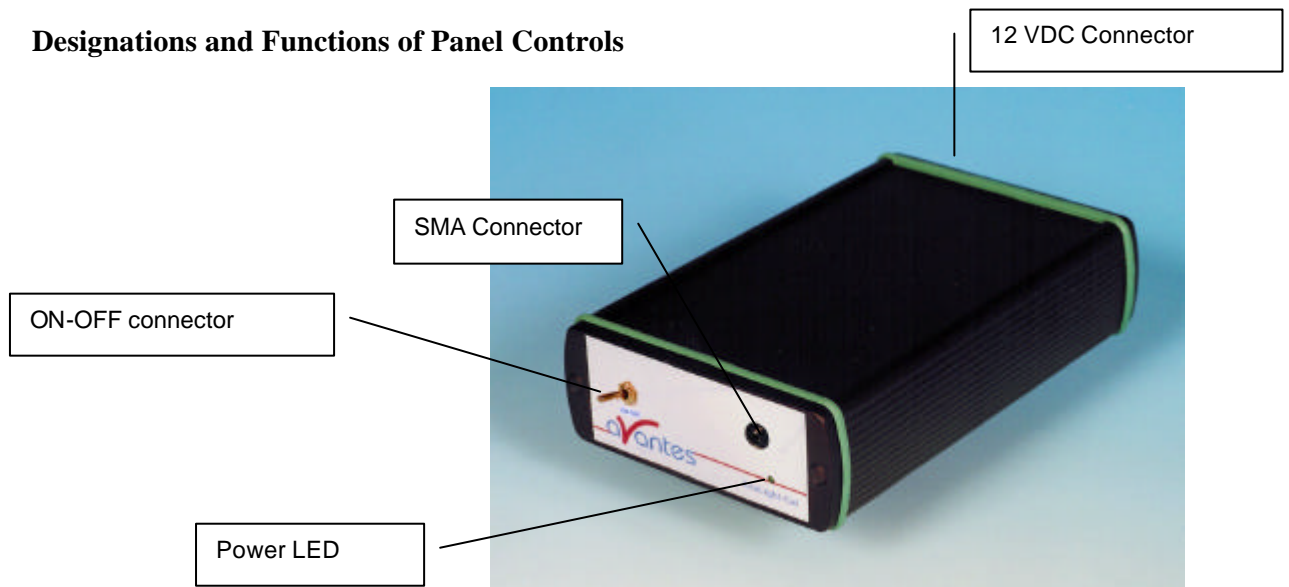
Object and Liquid Entry

Care should be taken that objects do not fall, or liquids spilled into the enclosure through openings.

Caution:

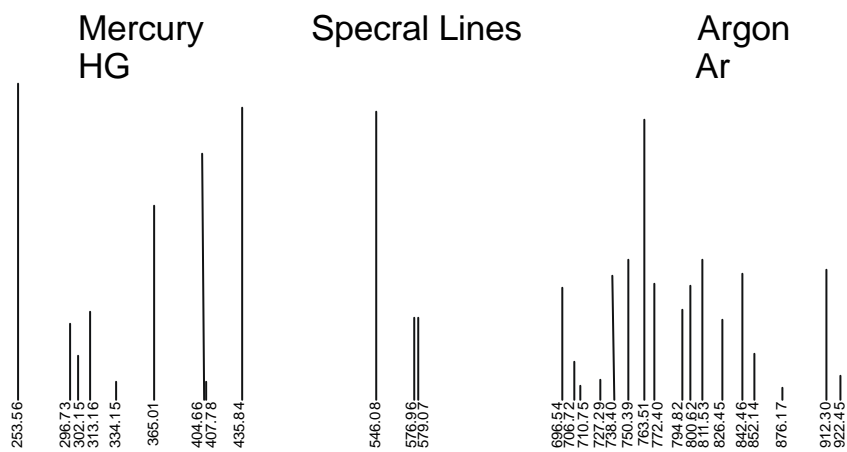
This lamp produces ultra violet radiation, which can be harmful to the eyes. **DO NOT LOOK INTO THE LIGHT BEAM. THIS CAN CAUSE PERMANENT EYE DAMAGE - WEAR PROTECTIVE EYE WEAR - CALL YOUR LOCAL DISTRIBUTOR FOR GLASSES OR GOGGLES.** This unit is supplied with a mechanical safety device - Before removing this Safety Device be sure that the power is off, and screw in the fiber optic cable first before starting the instrument.

Designations and Functions of Panel Controls



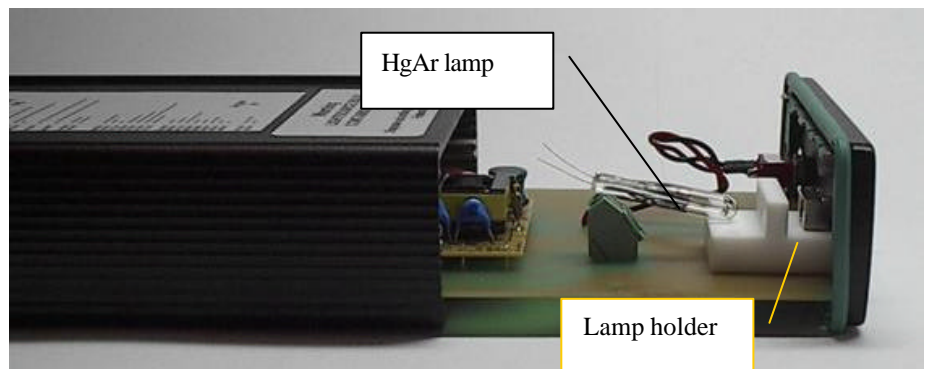
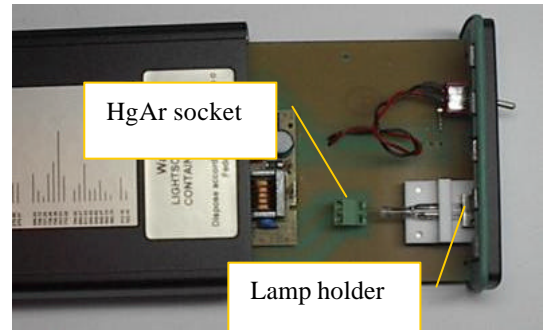
- 1) Front side: Fiber optic Connector SMA 905 compatible
LED shows ON/OFF Status of Lamp
- 2) Backside: ON/OFF-Switch
Power Input 12VDC

Dimensions of the housing: 175 x 110 x 44 mm



HgAr Lamp replacement

1. Plug out the power connector from the socket.
2. Remove screw protection caps on the frontside
3. Loosen 2 screws with philips screwdriver
4. take out the frontplate and electronics board
5. untighten 2 screws from HgAr socket
6. slightly bend the electrical wires out of HgAr socket
7. take out the HgAr Lamp from Lamp holder
8. replace by new Lamp, make sure the lamp legs make no short circuit.
9. Slide back electronics board and front plate, tighten screws and put back screw



Technical Data

Power requirement	12VDC supply, 420 mA
Output	Hg and Ar lines from 254 nm to 922 nm
Optical power in 600µm fiber	1.6 mW
Connector	SMA 905 connector
Internal Voltage	1200 Volts AC at 30 kHz, 10 mA
Warm up	1 minute for vapor stabilization
Dimensions	175 x 110 x 44 mm

Ordering Information

AvaLight-CAL Mercury-Argon Spectral Calibration Source

AvaLight-CAL-RM Rack mounted version of Mercury-Argon Spectral Calibration Source

AvaLight-CAL-B Replacement bulb, Mercury-Argon

PS-12V/1.25A Power supply 100-240VAC/12VDC, 1.25A for AvaLight-CAL