AvaLight-LED LED Light Source

Parts included

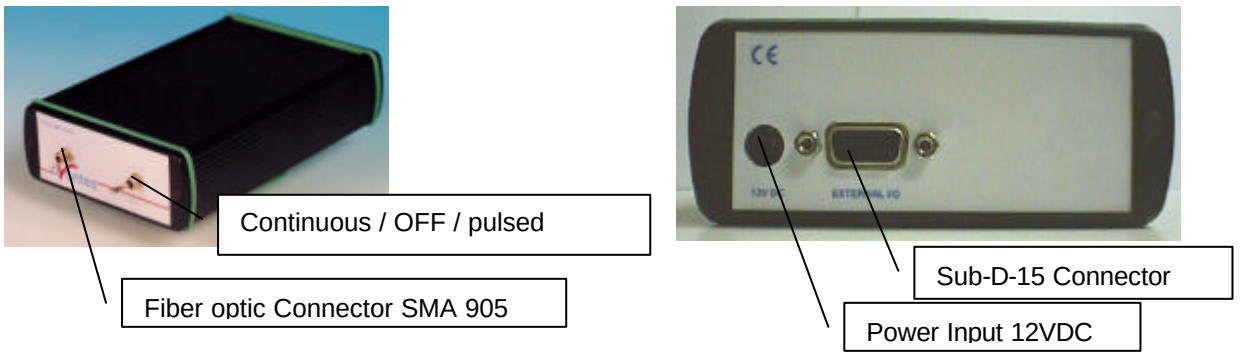
Your package should contain:

1. AvaLight-LED
2. IC-DB15-2 connection cable
3. PS-12V/1.25A power supply, should have been ordered separately.

Starting up

1. Plug the power supply into a standard 220V outlet and into the back of the AvaLight-LED
2. Screw an optical fiber onto the SMA connector on the front of the light source.

Designations and Functions of Panel Controls



Using the Continuous Mode

1. Turn the switch on the back of the AvaLight-LED to “ON” The continuous mode simply means that the light coming from the AvaLight-LED is continuous.
2. To Turn the lamp off, simply change the position of the switch to „OFF”

Using the Pulsed Mode

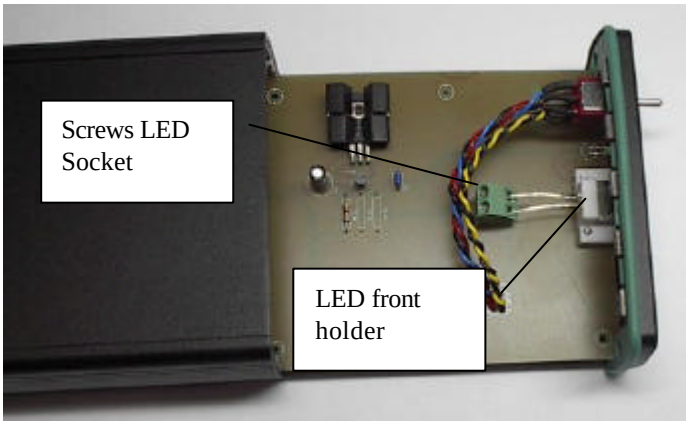
1. Plug one end of the DB-15-2 accessory connector into the back of the AvaLight-LED and the other end into the back of the AvaSpec-Spectrometer.
2. Turn the switch of the AvaLight-LED to „TTL“ for Pulsed mode of operation.
3. The pulsing of the AvaLight-LED is controlled through the AvaSpec spectrometer and fixed to 1 kHz with a 50% duty cycle, the newer type AvaLight-LED-p14 uses the input from pin 14 of the controlling of the LED (only on, when spectra are acquired)

Table of DB-15 connector

Pin	Description
2	TTL Input (1 kHz 50% cycle) from AvaSpec
10	GND
14	TTL input from AvaSpec with AvaSoft 6.2-OXY

LED 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 LED socket
6. slightly bend the electrical wires out of LED socket
7. take out the LED from LED front holder
8. replace by new LED, make sure the Anode and Kathode are connected in the same way and LED legs make no short circuit.
9. Apply power to see if the LED is illuminating
10. Slide back electronics board and front plate, tighten screws and put back screw caps



Technical Data

	AvaLight-LED380	AvaLight-LED400	AvaLight-LED475	AvaLight-LED590
Power Supply	12 VDC/ 800mA			
Spectral Range*	380 nm	400 nm	475 nm	590 nm
FWHM (nm)	15 nm	11 nm	30 nm	30 nm
Optical power 600 µm fiber	10 µWatt	25 µWatt	25 µWatt	25 mWatt
Connector	SMA 905			
Dimensions	175 x 110 x 44 mm			

** other wavelengths available on request*

Ordering Information

AvaLight-LED-XXX	Light Emitting Diode Lightsource, specify wavelength XXX
AvaLight-LED-XXX-RM	Rackmount version of the Light Emitting Diode Lightsource, specify wavelength XXX
IC-DB15-2	Interface cable AvaSpec to AvaLight-LED
PS-12V/1.25A	Power supply 100-240 VAC/12VDC, 1.25 A for AvaLight-LED