AvaLight-LED Light Source for Fluorescence Applications

AvaLight-LED

The Avalight-LED is a compact, low-cost light source meant for fluorescence applications. It produces continuous or pulsed spectral output at different wavelengths. Some standard excitation wavelengths are shown in the table on this page, but other wavelengths are available upon request. The sources have an SMA-905 connector to couple to fiber-optics. Please note that the power supply (PS-12V/1.0A) has to be ordered separately.

The AvaLight-LED can be used as a DC source or pulsed with a programmable Pulse Width Modulation (PWM), supplied by an AvaSpec-USB2 spectrometer (IC-DB26-2 cable needed).

The CUV-DA is a cuvette cell holder that has an integrated LED for direct illumination of the cell. This provide greater excitation energy for fluorophores with low quantum efficiency.

Other accessories include the CUV-FL and CUV-ALL cuvette holders and the FCR-UV fluorescence probes. They can be found in the accessories and fiber-optics chapters of this catalog. At the end of the catalog, an example fluorescence setup can be found.

- Fluorescence excitation
- Compact
- Flexible excitation wavelength

Technical Data

	AvaLight-LED 355/380	AvaLight-LED 400/410/430	AvaLight-LED 450/470/490	AvaLight-LED 530/590/780
Spectral Range*	355/380 nm	400/410/430 nm	450/470/490 nm	530/590/780 nm
FWHM (nm)	15 nm	11 nm	30 nm	30 nm
Optical power 600 µm fiber	10 µWatt	25 µWatt	25 µWatt	25 µWatt
Connector	SMA-905			
Power supply	12 VDC, 40 mA			
Dimensions, weigth	175 x 110 x 44 mm, 480 grams			

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
AvaLight-LED-CON	• LED lightsource control unit with electrical connector to LED, needs extra PS-12V/1.0A and interface cable.
CUV-LED-XXX	• LED holder for Cuvette, specify LED wavelength XXX.
CUV-DA	• Direct-attach cuvette holder for AvaLight-DHc/XE/LED
IC-DB26-2	• Interface cable AvaSpec-USB2/EVO platform to AvaLight-LED for PWM
PS-12V/1.0A	• Power supply 100-240 VAC/12VDC, 1.0 A for AvaLight-LED