AvaLight-LED
Light Sources for Fluorescence Applications

The AvaLight-LED is a compact, affordable light source meant for fluorescence applications. It produces continuous or pulsed spectral output at different wavelengths.

The different sources all 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 or EVO spectrometer (IC-DB26-2 cable needed).

This LED light source is also available in a rackmountable version and is compatible with various accessories, as stated below in the ordering information table.

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

Benefits of the AvaLight-LED:
• Compact
• Fluorescence excitation
• Flexible excitation wavelengths

AvaLight-LED

Technical Data for AvaLight-LED

	AvaLight-LED-355/380	AvaLight-LED-400/410/430	AvaLight-LED-450/470/490	AvaLight-LED-530/590/780
Peak wavelength*	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 light source, specify wavelength XXX = 355/380, 400/410/430, 450/470/490, 530/590/780
AvaLight-LED-XXX-RM	• Rackmount version of the light-emitting diode light source, specify wavelength XXX
AvaLight-LED-CON	• LED light source 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

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AvaLight-HPLED
High-power Light Sources for Fluorescence Applications

The Avalight-HPLED is a compact, affordable LED light source meant for fluorescence applications. This high-power version was made for more demanding applications compared to our regular LED light source.

The AvaLight-HPLED light sources produce continuous or pulsed spectral output at different wavelengths. All sources have an SMA-905 connector to connect fiber optics and come with a 5V/1.6A power supply.

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

Benefits of the AvaLight-HPLED:
• Compact
• High power levels
• Fluorescence excitation
• Several excitation wavelengths

AvaLight-HPLED

Light Sources

Technical Data for AvaLight-HPLED

	AvaLight-HPLED-385	AvaLight-HPLED-405	AvaLight-HPLED-470	AvaLight-HPLED-530	AvaLight-HPLED-625	AvaLight-HPLED-White
Peak wavelength	385 nm	405 nm	470 nm	530 nm	625 nm	N.A.
FWHM (nm)	15 nm	nm	25 nm	nm	nm	N.A.
Optical power 600 µm fiber	3.4 mWatt	3.4 mWatt	3.4 mWatt	3.4 mWatt	3.4 mWatt	3.4 mWatt
Connector	SMA-905					
Power supply	5V, 500mA					
Dimensions, weigth	150 x 78 x 37 mm, 420 grams					

PRELIMINARY DATA

Ordering Information

AvaLight-HPLED-XXX	• High-power light-emitting diode light source, specify wavelength XXX = 385, 405, 470, 530, 625, White. Includes 5V/1.6A power supply
IC-DB26-2	• Interface cable AvaSpec-USB2/EVO platform to AvaLight-HPLED for PWM

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