

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 design
- Optimized for fluorescence applications
- Several excitation wavelengths
- High-power levels
- Different peak wavelengths available

AvaLight-HPLED



Technical Data for AvaLight-HPLED

| | AvaLight-HPLED-285 | AvaLight-HPLED-385 | AvaLight-HPLED-405 | AvaLight-HPLED-470 | AvaLight-HPLED-530 | AvaLight-HPLED-625 | AvaLight-HPLED-White | |
|----------------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--|
| Peak wavelength | 285 nm | 385 nm | 405 nm | 470 nm | 530 nm | 625 nm | N.A. | |
| FWHM (nm) | 15 nm | 15 nm | 15 nm | 25 nm | 35 nm | 25 nm | N.A. | |
| Optical power 600 µm fiber | 0.5 mWatt | 3.4 mWatt | | | | | | |
| Connector | SMA-905 | | | | | | | |
| Power supply | 5V, 500 mA | | | | | | | |
| Dimensions, weight | 150 x 78 x 37 mm, 420 grams | | | | | | | |

Ordering Information

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| AvaLight-HPLED-XXX | <ul style="list-style-type: none"> • High-power light-emitting diode light source, specify wavelength XXX = 285, 385, 405, 470, 530, 625, White. Includes 5V/1.6A power supply |
| IC-DB26-2 | <ul style="list-style-type: none"> • Interface cable AvaSpec-USB2/EVO platform to AvaLight-HPLED for PWM |