

# AvaLight-XE Pulsed Xenon

## AvaLight-XE



Perfect for ultraviolet applications like fluorescence, the AvaLight-XE is a pulsed xenon light source. When connected to your AvaSpec spectrometer through the IC-DB26-2 cable (sold separately), the flashes are synchronized with the data collected by the spectrometer. In AvaSoft the number of flashes per scan can be selected.

With a special DUV bulb the AvaLight-XE can be used for deep ultraviolet application (below 200 nm). A special direct-attach cuvette holder is available for your fluorescence applications. For transmission measurements, the AvaLight-XE can be used in conjunction with the CUV-ATT-DA which has an iris attenuator to limit the light output and to avoid saturation.

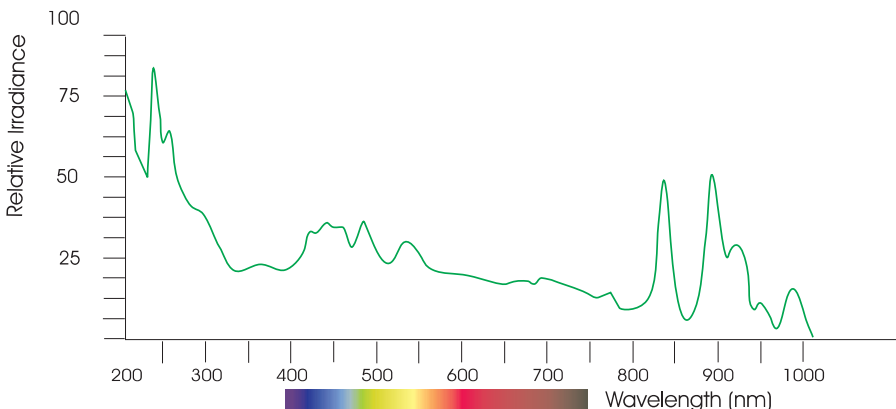


Figure 12 Spectral output of the AvaLight-XE

- Pulsed light source
- Perfect for fluorescence
- Cuvette holder available
- Long lifetime

### Technical Data

<b>Spectral Output</b>	200 nm to 1000 nm
<b>Total Optical Power output</b>	39 $\mu$ J per pulse (average 66 mW)
<b>Optical Power in 200 <math>\mu</math>m fiber</b>	0.66 $\mu$ J per pulse (average 20 $\mu$ W)
<b>Optical Power in 600 <math>\mu</math>m fiber</b>	3.2 $\mu$ J per pulse (average 320 $\mu$ W)
<b>Optical Power in 1000 <math>\mu</math>m fiber</b>	7.4 $\mu$ J per pulse (average 744 $\mu$ W)
<b>Synchronization Input</b>	15 pin sub-D connector, TTL level
<b>Pulse Duration</b>	5 $\mu$ s (at 1/3 height)
<b>Pulse delay</b>	6 $\mu$ s
<b>Pulse rate (max.)</b>	100 Hz
<b>Bulb Life</b>	min. 10 <sup>9</sup> pulses
<b>Connector</b>	SMA-905 connector
<b>Power requirement</b>	12 VDC/550 mA
<b>Dimensions, weight</b>	175 x 110 x 44 mm, 540 grams

### Ordering Information

<b>AvaLight-XE</b>	• Xenon Light Source (200-1000 nm), needs interface cable and power supply
<b>AvaLight-XE-DUV</b>	• DUV (160-1000 nm) version of the AvaLight-XE, needs interface cable and power supply
<b>AvaLight-XE-B</b>	• Spare bulb for the AvaLight-XE (200-1000 nm)
<b>AvaLight-XE-B-DUV</b>	• Spare bulb for the AvaLight-XE-DUV (160-1000 nm)
<b>IC-DB26-2</b>	• Interface cable AvaSpec-USB2/EVO platform to AvaLight-XE
<b>CUV-DA</b>	• Direct-attach cuvette holder for AvaLight-DHc/XE/LED
<b>ATT-DA</b>	• Direct-attach attenuator for AvaLight-DHc/XE/LED
<b>CUV-ATT-DA</b>	• Direct-attach cuvette holder and attenuator for AvaLight-DHc/XE/LED
<b>PS-12V/1.0A</b>	• Power supply 100-240VAC/12VDC, 1.0A for AvaLight-XE