

# AVAFLUORESCENCE ACCESSORY

## Integrated Benchtop Fluorescence



A benchtop fluorimeter system provides for the ability to scan across wavelengths of excitation in order to find optimal excitation and emission combinations for fluorescent samples. A common limitation of fiber optic spectroscopy systems is that they typically only allow for isolating excitation wavelengths one at a time using bandpass or other optical filters. Fluorescence scientists commonly prefer to scan different excitation wavelengths. The new AvaFluorimeter Accessory combines the flexibility of a fiber optic monochromator with a high powered Xenon source (Avalight-XE-Mini-HP) and sample chamber

(CUV-DA) to provide the functionality of a benchtop fluorimeter at a fraction of the cost. The cuvette holder can be substituted for any of our fluorescence fiber optic probes such as the FCR-UVIR 200/600-2-IND 1/2" industrial fluorescence probe.

The Avafluorimeter solution features a manual operated monochromator from Optometrics, our Avalight-XE-Mini-HP high powered Xenon source and a direct attached cuvette holder into one integrated module. The system can be attached via a single fiber optic cable to any of Avantes AvaSpec instruments.

<b>System</b>	AvaFluorescence
<b>Application</b>	Absorbance/Fluorescence
<b>Excitation Wavelength</b>	200-700 nm (0.5 nm steps)
<b>Fiber optic connections</b>	SMA 905
<b>Sample compartment type</b>	1 cm cuvette
<b>Sampling geometry</b>	Orthogonal
<b>Xenon source wavelength range</b>	200-1100 nm
<b>Xenon source optical power</b>	6W maximum
<b>Xenon Source power</b>	12VDC
<b>Wavelength adjustment</b>	200-700 nm (manual knob)

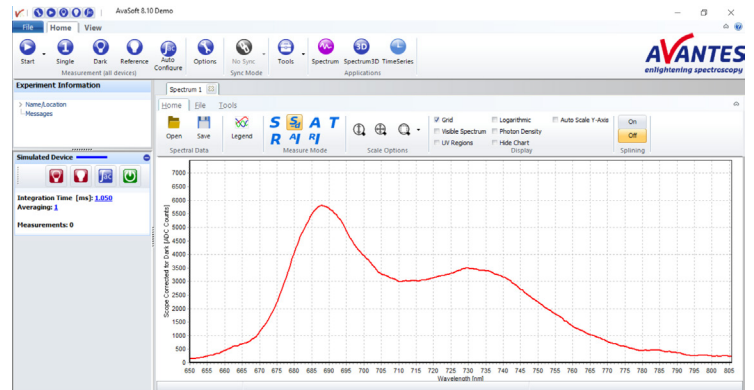


Figure 1: Chlorophyll fluorescence with 400 nm excitation

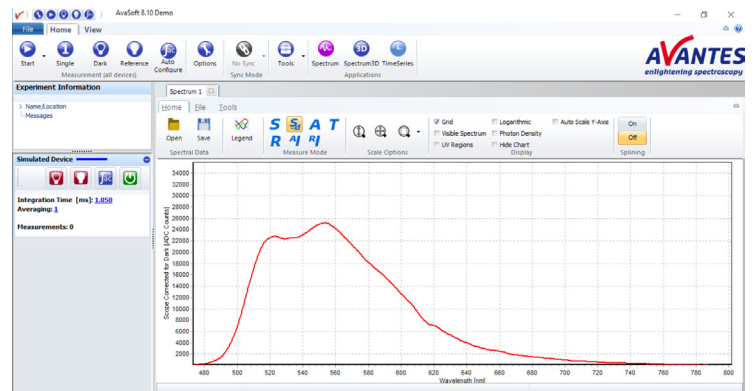


Figure 2: Fluorescein fluorescence spectra with 488 nm excitation.