

Radiance

Written by Rocky

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Radiance sensors are easy to identify because they do not typically have a diffuser (**Figure 1**). In our systems, filtered photodetectors are positioned at the bottom of individual Gershun-style tubes, which restricts the field-of-view to the desired solid angle. Radiance is typically abbreviated with the symbol L .

Different colored filters select the spectral regions of interest. Narrowband ("monochromatic") sensors are equipped with filters that restrict the spectral response to a narrow region, typically 10 nm [FWHM](#) (**Figure 2**). An example of a broadband radiance detector is the natural fluorescence detector (abbreviated LuChl) patented by Biospherical Instruments and used in [Natural Fluorometers](#). To collect as many fluoresced photons as possible, an LuChl detector approximates the emission spectrum of chlorophyll.

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