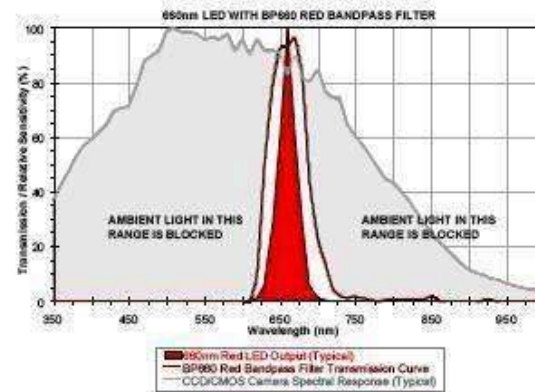
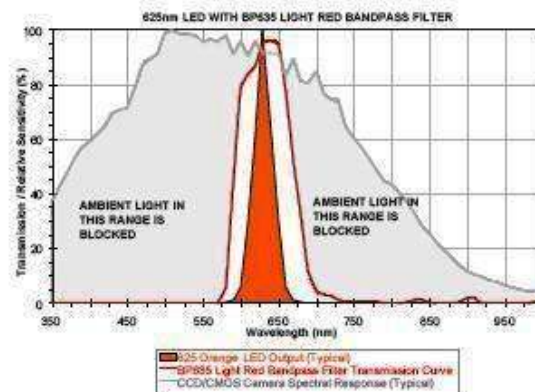
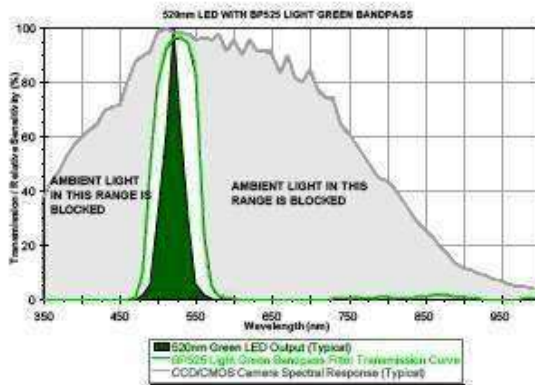
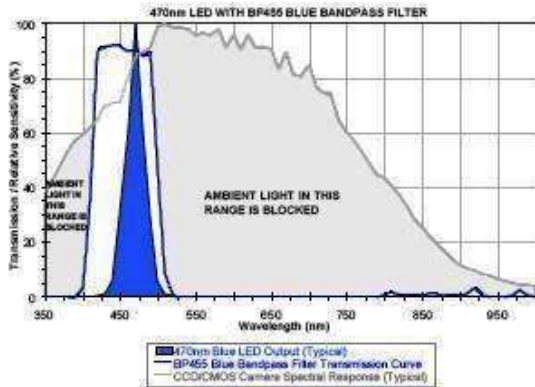




Island Optical Systems (S) Singapore

Color Bandpass Filters Designed for Machine Vision

A band-pass filter will block shorter and longer wavelengths, resulting in improved contrast and better control over changes that may occur over time in ambient lighting conditions. In the case of band-pass filters, "broad" is necessary in most machine vision applications. This allows for variations in the spectral characteristics of LED's or laser diodes. For example, most LED's will have a $\pm 10\text{nm}$ tolerance assigned to their peak wavelength. The filter chosen must perform well over this entire range. A broad band-pass also allows a filter to perform well when wide-angle or shallow-incident angle lighting is used. At **Island Optical Systems**, these filters are available from stock, in mounts that fit all machine vision camera lenses. In designs that are compact, rugged and enviromentally stable.



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