



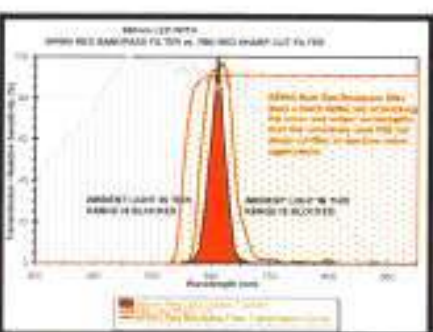
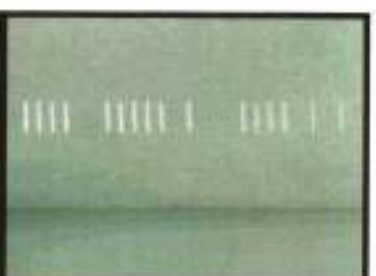
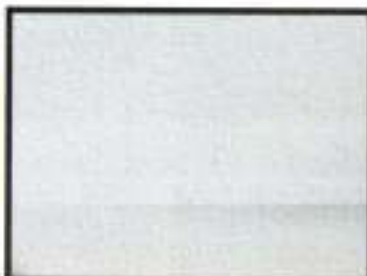
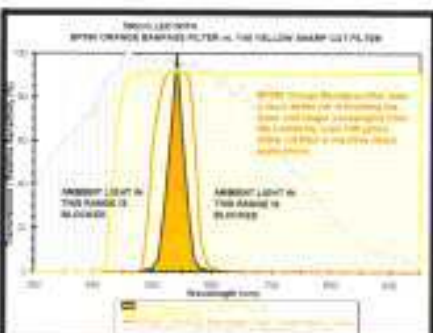
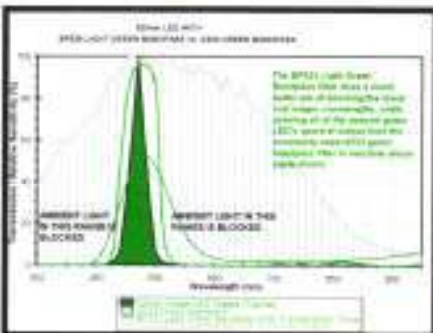
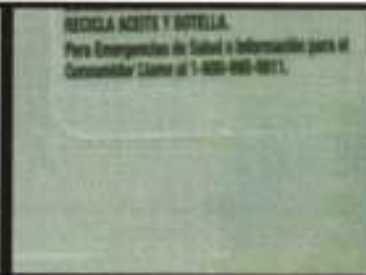
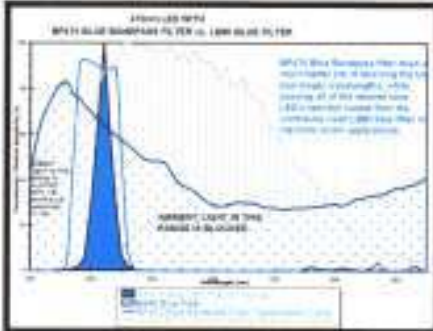
ISLAND OPTICAL SYSTEMS

ISLAND Bandpass Filters designed for machine vision versus typical filters being used.

Column 1
No Filter

Column 2
Filters commonly used for machine vision (not recommended).

Column 3
ISLAND Bandpass filters designed for machine vision applications.

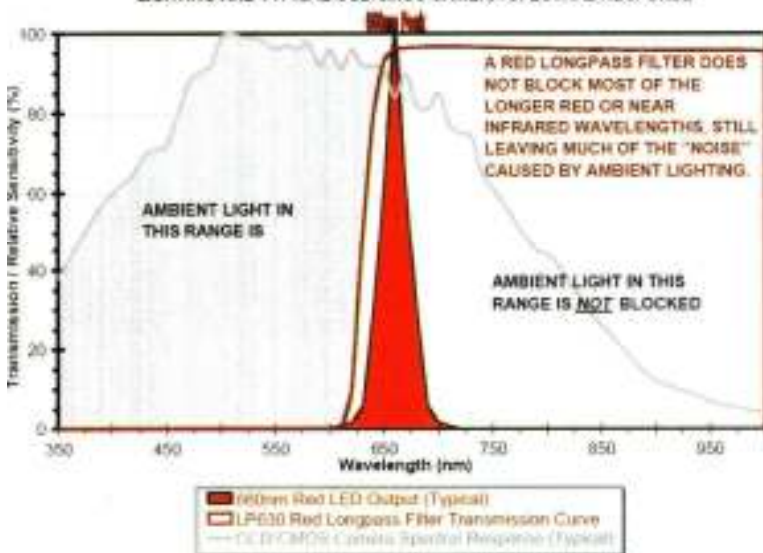




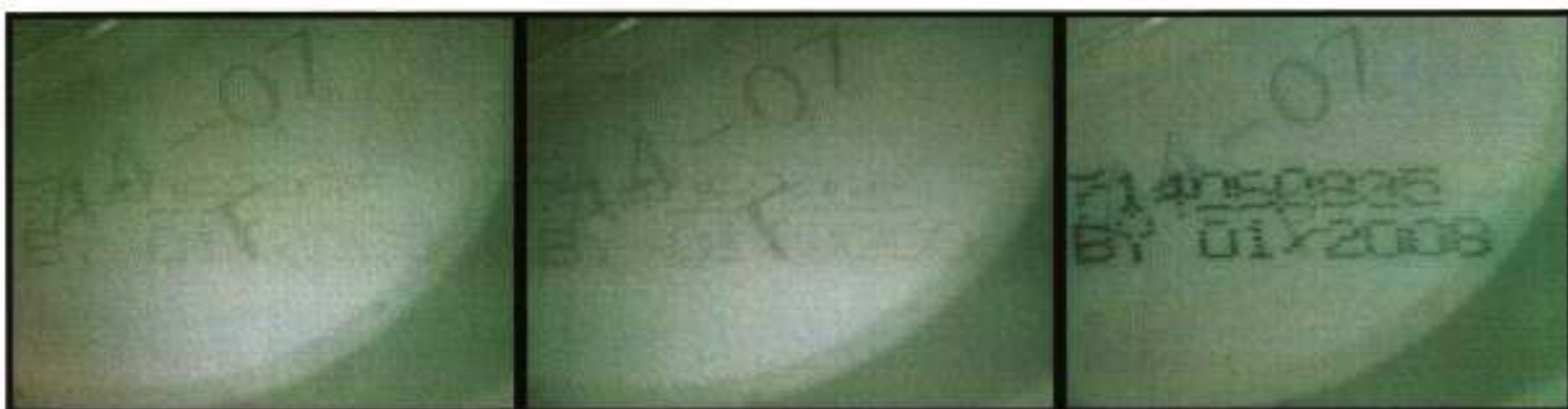
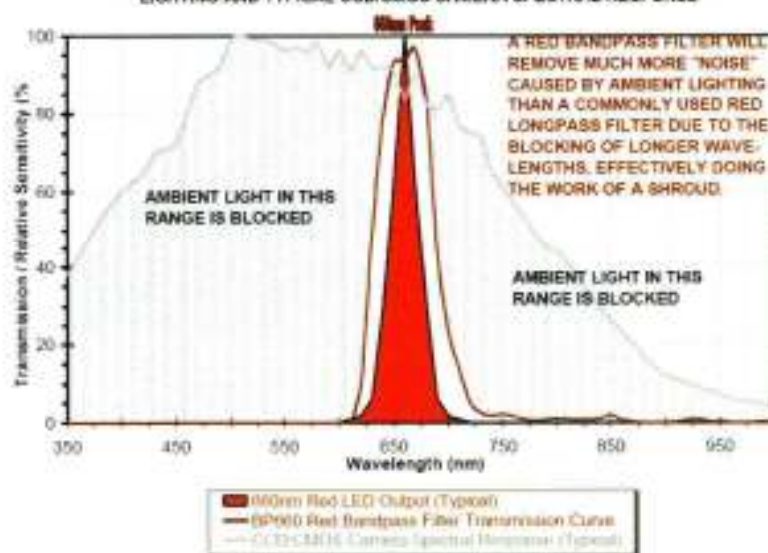
ISLAND OPTICAL SYSTEMS

Filters Designed for Machine Vision

LP630 RED LONGPASS FILTER vs. OUTPUT FROM TYPICAL 660NM RED LED LIGHTING AND TYPICAL CCD/CMOS CAMERA SPECTRAL RESPONSE



BP660 RED BANDPASS FILTER vs. OUTPUT FROM TYPICAL 660NM RED LED LIGHTING AND TYPICAL CCD/CMOS CAMERA SPECTRAL RESPONSE



660nm Red LED No Filter

660nm Red LED with a LP630 Longpass/Sharp-cut Filter

660nm Red LED with a BP660 Bandpass Filter

Each **ISLAND** bandpass filter has been designed and manufactured for a specific machine vision application. This offers many advantages when compared to other conventional off-the-shelf filters:

- ⊙ Adding a bandpass filter to the front of your lens allows you to effectively "turn off the lights" in your room and eliminate the short and long term variability of ambient light. Avoid the unnecessary expense, lead-time, space restrictions, and hassles associated with a shroud.
- ⊙ Unlike other filters currently sold, **ISLAND** bandpass filters block all of the light that your camera is sensitive to - UV, visible, and infrared - improving contrast by 50% to 100% when compared to filters provided by most other filters used today in industrial imaging applications. There usually is little or no extra cost when using a **ISLAND** filter.
- ⊙ This improved performance comes together with the convenience of a filter mount that fits securely onto your lens. Filters are available from stock in all commonly used smaller filter thread sizes and slip mounts. No custom-fabricated mounting, adhesive tape or gluing required!
- ⊙ Purchase a bandpass filter or filters **BEFORE** you commit to the LED lighting. First check the effects of different colors or wavelength ranges in your inspection application without the expense, the waiting and the integration time associated with lighting hardware. Don't waste time wondering and waiting - quickly determine what will or will not work.