

Connections

Give the green light to manual inspection!



When we think of going green, we often think of recycling, composting, and maybe even tree hugging. Although noble in pursuit,

**To acquire knowledge, one must study;
But to acquire wisdom, one must observe.**

—Marilyn vos Savant

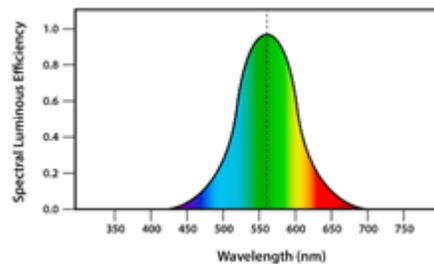
As New England Drives & Controls constantly strives to become a better asset to our customers, our whitepaper series will feature new technologies or helpful insights that may be pertinent to the reader. It is our sincere hope that this information will be beneficial in both relating, and applying content to your industrial needs.

We hope you find this whitepaper series an enjoyable and informative read.

We always welcome your questions and comments.

let's not go in that direction today. Instead let's simply think of green colored light.

Did you know that the human eye is most sensitive to green wavelengths?



Because of this fact, utilizing green light allows operators to better differentiate bright and dark spots that indicate defects. Green light provides contrast from ambient or overhead white light, and reacts with some oils used in

processing to provide additional contrast. Furthermore, localized green light adds intensity to existing light, and can be installed at angles to improve reflectance into the operators' eyes. This makes green light perfect for ensuring quality! Visual inspection of stamped metal parts is a common practice to find minor surface defects, especially on critical Class A surfaces. Inspection of molded plastic, glass, and finished surfaces is also important for quality assurance.



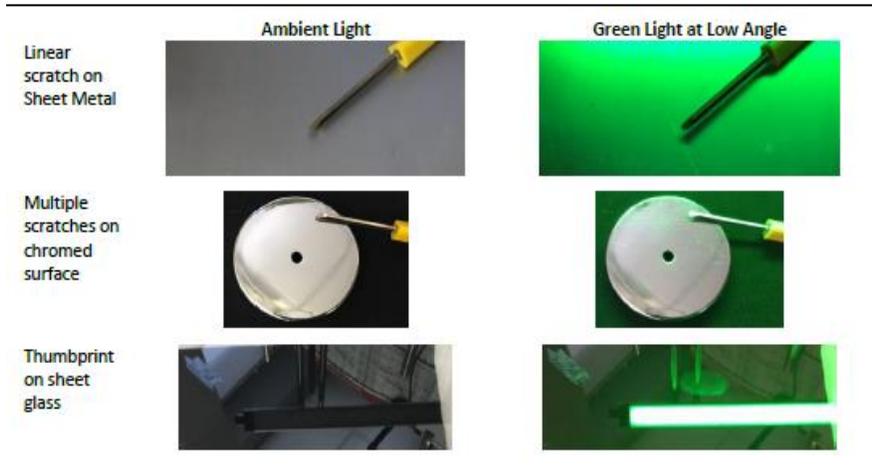
Of course, part inspection may only play a partial role in our day. Because of this, we wouldn't want to work all day in an environment illuminated by green photons. (Unless, like me you spend time in your day, pretending you are a Navy Seal working with night vision equipment... but I digress.)



Being able to switch from white light illumination to green light for inspection, and then back again can be easily accomplished with the flip of a switch. The lights can be fixed and mounted to the ceiling or wall, or can also be attached to a cord and used as a work light.

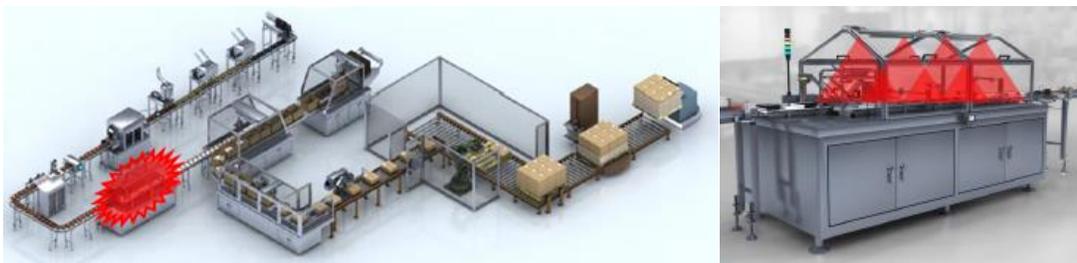
Utilization of green light for inspection will point out many defects, not easily seen by the human eye under normal lighting conditions.

Look at the examples to the right to see difference green light makes in spotting imperfections!



But why stop at only green light? Let's talk about a different application. Often times there are indicator beacons on top of machinery that indicate if an error or fault condition is present. Usually a red light illuminates and possibly strobes. Although this type of indication works, imagine if you will, the standard illumination around the machine changing from white to red, until the fault is cleared? This type of indication would be immediately noticed, requires the same input and wiring, making it effectively plug & play, in comparison to the beacon.

By changing machine lighting from white to red, operators and supervisors work efficiently in a bright environment and immediately know when a machine enters a fault status. The light can instantly switch to red under a fault condition. The fault can be identified and resolved quickly, allowing production to continue and minimizing downtime.



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