

## Advantages of OverDrive™

- Highest Power LED Lights available in the Vision Industry
- SafeStrobe Technology ensures protected operation of LED's
- 4 to 10 times brighter than standard high current LED Lights
- Precise current provides stable Light Intensity
- High Speed >> Fast Response
- Connect-a-Light® technology
- NPN and PNP strobe control

**OverDRIVE**

Smart Vision Lights is pleased to release a new series of LED strobe lights. OverDrive™ series of lights includes an integrated strobe driver for complete LED light control. No need for an external driver to control the light. The integrated intelligent driver monitors the strobe operation maximizing the lights output during inspections of the vision system.

The OverDrive™ offers our SafeStrobe technology. This unique technology applies safe working parameters to ensure the LED's are not damaged by driving them beyond their limits. This is especially beneficial for overdriving today's new High Current LED's. The OverDrive™ series provides repeatable intensity control and pulsing by using a microprocessor to watch and control the power to the LED's for safe operation. The integrated OverDrive™ controller offers both NPN and PNP strobe input for easy integration to today's smart cameras. Lights have high speed reaction times that offer extremely fast repeatable pulse times.

LED's are current driven devices. To correctly overdrive LED's it is very important to accurately control current. Duty Cycle, Pulse Duration and Maximum Current must be within safe limits to prevent damage to high current LED's. An LED's intensity is very stable if a constant current is maintained and temperature is controlled. An LED's output and life are directly proportional to the heat generated internally. By pulsing LED's heat is minimized creating little or no loss of intensity. Pulsing LED's with a higher current than running at a constant current produces a higher intensity of light output. 4 to 10 times the output can be achieved vs. running high current LED's in constant state.

OverDrive™ technology automatically sets the limits for different LED's. Every color or wavelength of LED is maximized producing the highest output LED lights in the vision industry. UV, IR, White, Red, Blue, Green and Cyan all have different maximum current limits and our OverDrive™ technology controls every color light.

ODL Linear uses Connect-a-Light® technology offering the ability of linear lights to be daisy-chained or connected together making any length of light possible.