

TECH NOTE LED POWER OUTPUT, OPERATING LIFETIME AND WARRANTY

LEDs are chips enclosed within a casing, together with a preliminary optic. When any LED is turned on, it produces a high amount of heat which is detrimental to the lifetime and performance of the LED. TPL Vision's LED products are mounted on a metal surface (heatsink) to conduct the heat away from the LED and give **the best LED lifetime possible**. However, it is impossible to fully extract all the heat generated from the LED, and heat degradation will gradually reduce the power of the LED over it's lifetime. This is a normal characteristic of LEDs, and all LED chips will experience a reduction in power output as they age.

TPL Vision encourages customers to **STROBE** our LED products whenever possible, as it reduces the heat generated within the product and increases the lifetime of the LED chip. Operating TPL Vision products in strobe mode when possible will help to give longer product lifetimes than rated in the datasheets.

Most TPL Vision products (with the exception of UV and "Expert" products) come with a **3 year warranty** and rated lifetime of 50,000 hours when operated in continuous mode (ambient air temperature = maximum 40° C / 104° F).

UV products have a 1 year warranty; 405nm UV products have a rated lifetime of 10,000 hours operating in continuous mode (ambient air temperature = maximum $40^{\circ}C / 104^{\circ}F$).

Lifetimes can typically be increased using strobe mode where possible.





PHONE +44 (0)**1738 310 392** EMAIL contact@tpl-vision.co.uk

www.**tpl-vision**.com