LED emitter produces output in the 850nm or 940nm range of the light spectrum

Larson Electronics has announced today the release of a powerful and extremely durable compact LED emitter designed to produce light output in the 850nm to 940nm range. Measuring only 2 inches wide and 2 inches high, the LEDLB-1-IR Infrared LED Light is an ideal light source for improving the range and resolution of night vision cameras and devices reliant on infrared light.

The LEDLB-1-IR infrared LED light emitter from Larson Electronics provides a compact source of high output infrared light in the 850nm or 940nm range of the light spectrum depending upon the users chosen configuration. This infrared LED light is small in size measuring only 2 inches high by 2 inches wide, making it ideal for installation on vehicles and even ATVs where mounting space is limited. This LED light emitter operates on any voltage from 9 to 42 volts DC, making it ideal for connection to 12 or 24 volt power sources and with its low 3 watt ¼ amp draw, will not place excessive drain on batteries. Despite its low power requirements, this compact LED emitter produces high output with an infrared beam reaching up to 225 feet long in spot configuration and 45 feet long by 40 feet wide in flood.

The housings on these units are rated IP68 waterproof to three meters of submersion and constructed of extruded aluminum for high strength with an unbreakable polycarbonate lens for added durability. Integral cooling fins provide effective heat control and also act as a deicing mechanism, helping to prevent buildup of ice in cold and wet conditions. These infrared LED lights also feature a

unique housing design that allows the operator to securely connect multiple units together in rows for added power and coverage. The mounting assembly on these lights consists of a stainless steel u-bracket with a single ¼ inch stud protruding from the bottom, making these units very easy to install on roll bars, mounting plates, bumpers, and just about anywhere a ¼ inch hole can be drilled. When ordering these infrared lights operators can choose between spot or flood configurations, and 850nm or 940nm spectral output.

Most commonly available night vision devices and security cameras work effectively with 850nm light while high end military equipment works better with light in the 940nm range. The high output and small size of these infrared lights makes them popular with game wardens, law enforcement and security professionals who often rely on night vision equipment in the performance of their duties. These emitters help to improve the resolution and range of night vision devices by increasing the amount of available infrared light and are also becoming popular in the medical field due to their potential benefits in treating skin disorders.

Source URL (retrieved on *05/22/2013 - 1:10am*):
http://www.ecnmag.com/product-releases/2013/02/led-emitter-produces-output-850nm-or-940nm-range-light-spectrum?qt-recent_content=0