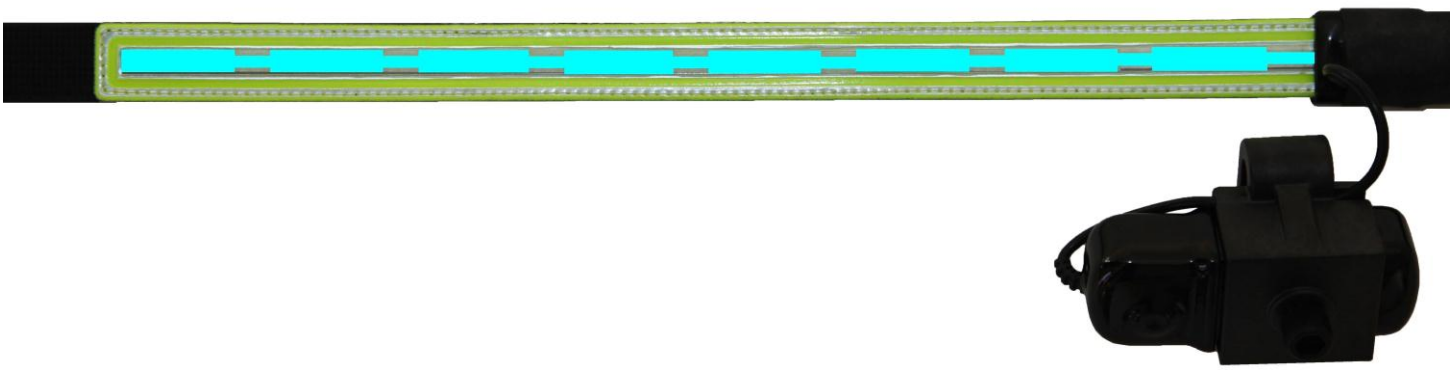
CSC GROUP LLC
(Creative Safety Concepts)
GLO-JO® PRO™ Helmet Band
- PRODUCT DETAILS -

• Device easily mounts and adjusts to most firefighting helmets on the market and weighs approximately 8.5 Ounces (Batteries included).

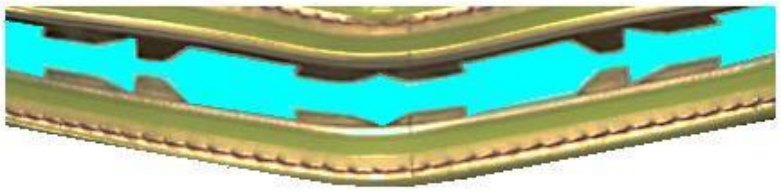


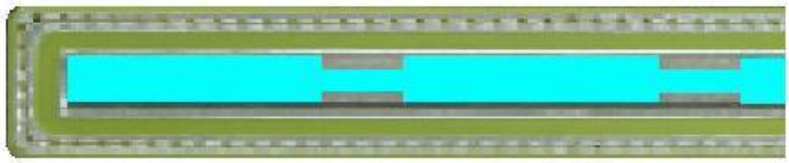
• Adjustability features on the device includes a length of high temperature 1” EPDM Rubber with adjustability buckle and a male side-release buckle to ensure a snug fit.

• The main body of the GLO-JO® PRO™- Series Helmet Band is made of NFPA Compliant Kevlar® webbing. Unlike other materials that are commonly affected by mildew, this Kevlar® webbing does not easily rot and has an approximate shelf life of 12 years.

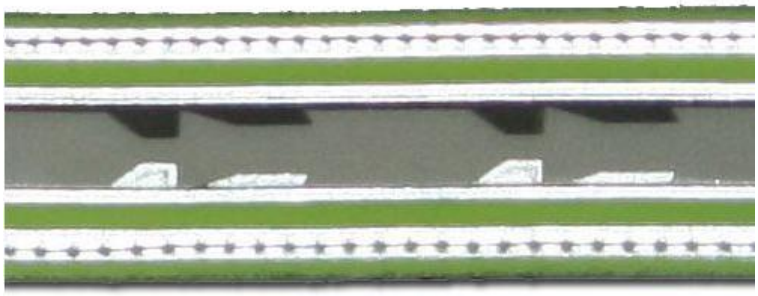
• The GLO-JO® PRO™ can easily be secured or removed via our side release buckle system which is made of a Heat Stabilized Nylon 6/6 plastic. This plastic material is the same plastic on many U.S. firefighter helmets, ensuring that chin straps can be effectively secured.

• The GLO-JO® PRO™'s illumination strip is built into a 1 inch tall fluorescent yellow, retro-reflective photo-luminescent encasement. Such retro-reflective photo-luminescent materials are known on the market as Glo-Flex® or Reflexite® material. This material used in our device is NFPA compliant with regard to heat and flame resistance. Such materials are commonly found on the outside of currently manufactured firefighting helmets, identified as triangular adhesives or rectangular strips. These materials are also both chemical and water resistance.





• A clear top layer is RF welded to encase the devices lamp. This material is scratch resistant and very easy to clean when covered with soot and other carbon materials generated by combustibles; this enables our built in illumination strip to remain optically clear.



• The GLO-JO® PRO™ battery pack utilizes 2 "AA" Batteries.

• The GLO-JO® PRO™ battery pack is encased with a heat and flame resistant rubber which has self-extinguishing properties to prevent combustion. The application of this rubber encasement not only provides the necessary heat and flame resistance to the battery pack, but also provides water and impact resistance.

• The GLO-JO® PRO™ Battery Pack Mounting Bracket is a unique mounting approach which replaces all previous battery pack mounting methods. It is a light-weight solution that offers a lower profile, improved balance, enhanced ergonomic on/off activation, and increased thermal protection. Users are able to secure their ***battery packs*** underneath ones helmet via this durable brim designed mounting system. The GLO-JO® PRO™ Battery Pack Mounting Bracket is made of a high temperature polycarbonate plastic.

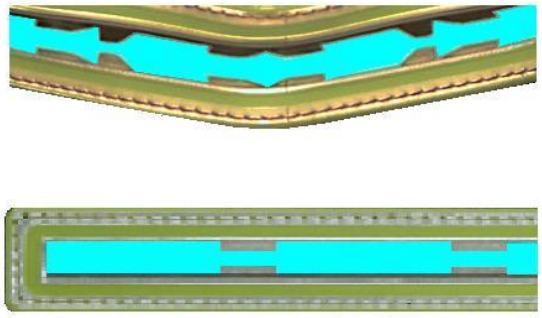
• The GLO-JO® PRO™ has the option of blink or constant mode. This is activated with a preset mode switch (blink or constant) on the side of the battery pack. I

• The power “switch” which activates the GLO-JO® PRO™ is a pushbutton switch. It can be found on the face of the battery pack in form of a raised circular dimple. The best way to activate our system is to firmly drive your thumb into this raised circular dimple.

• The power switch or pushbutton activation switch may be challenging to activate with a gloved hand. Therefore we recommend a pre-arrival activation of this device while one is gearing-up or while en-route to a given scene.

GLO-JO® PRO™ ILLUMINATION AND BATTERY LIFE

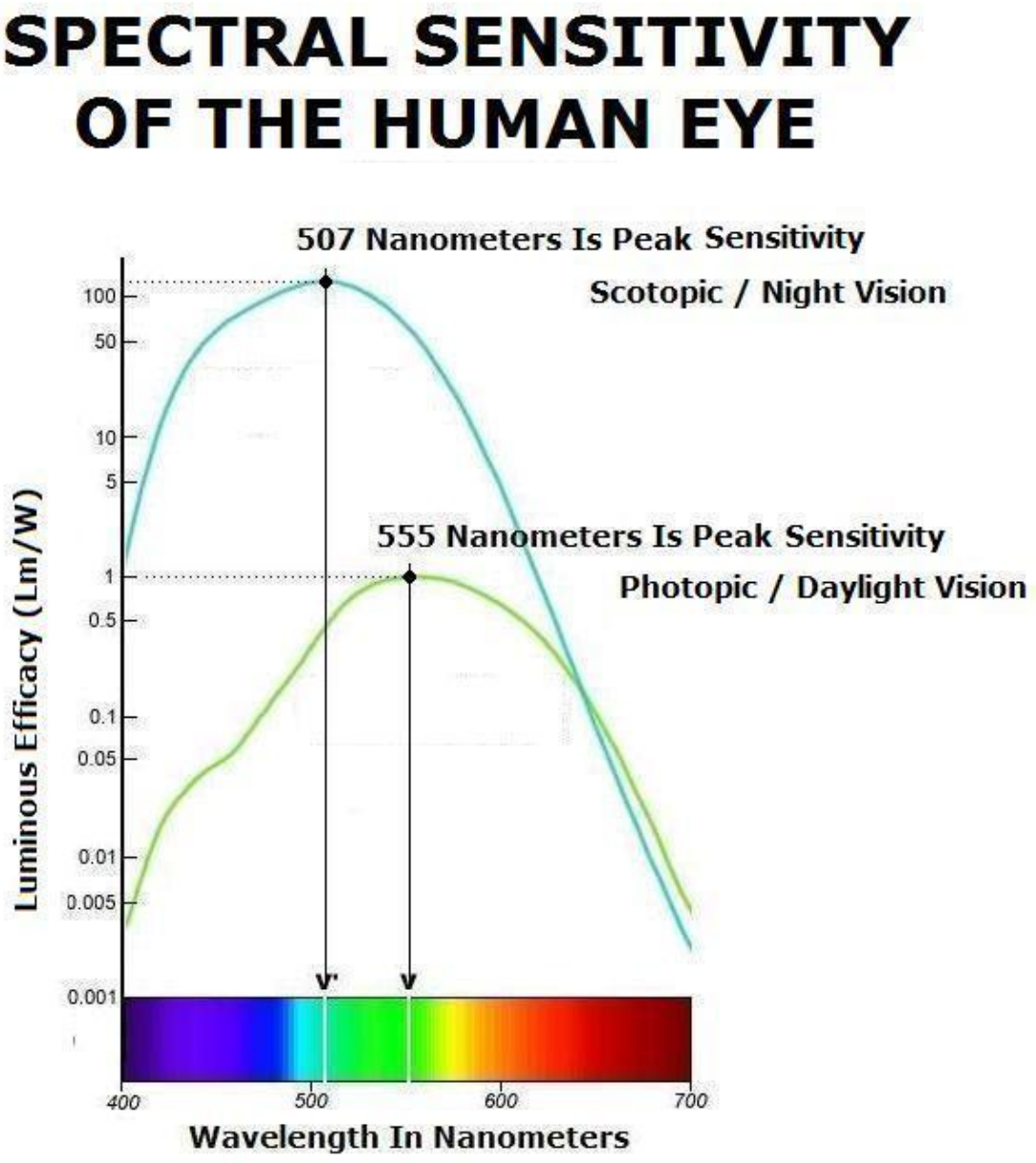
• The GLO-JO® PRO™- Series Helmet Band includes an Electroluminescent (EL) Lamp or light strip which is the source of our “active” illumination. Our two (2) electro-luminescent lamp patterns, such as our arrow and cell pattern lamps, are both engineered to conserve power, while optimizing visibility.



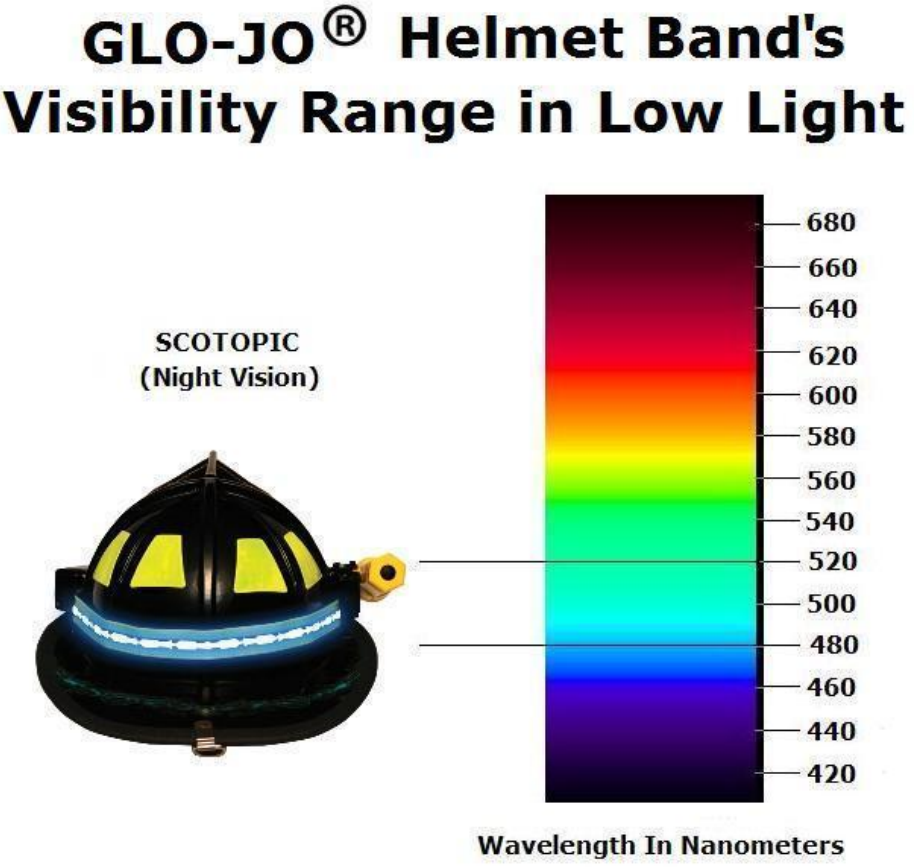
• The Electro-Luminescent (EL) lamp used in this device offers a system which is:

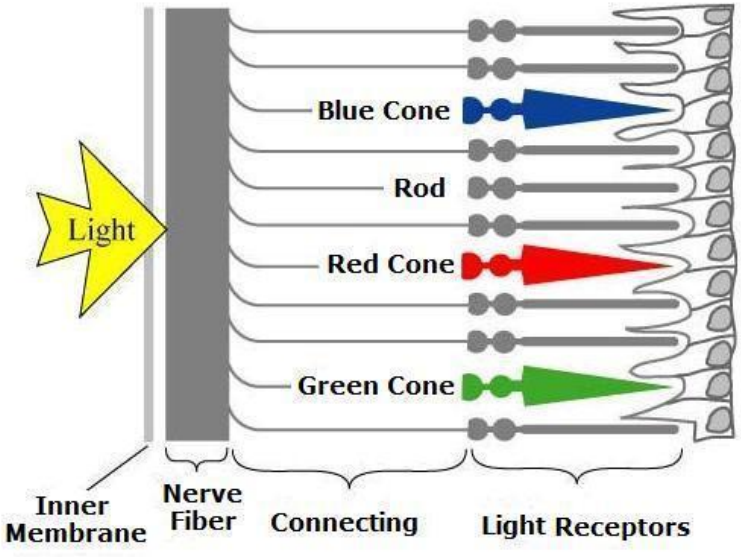
- Lightweight and durable
- Waterproof
- Flexible
- Vibration and impact resistant
- Reliable; the EL light sources generally does not catastrophically or abruptly fail
- Has extremely low power consumption, as it consumes 75-90% less power than other comparative light sources
- Highly efficient and bright, as typically 80% of energy is converted to visible light
- Low in thermal output, operating at a low temperature (other wise known as a cold light source); having little to no heat signature
- Provides a continuous and even area of light which is non-glaring
- Highly visible and can be seen from long distances in darkness, smoke and fog
- Non-hazardous; the materials used in the lamp construction are landfill friendly
- Long in useful service life
- Virtually maintenance free

• Our device is successful because of the spectral output of our EL lamp (i.e. the color of light generated). The EL lamp in the GLO-JO® PRO™- Series Helmet Band is purposely tuned to be optimized by the human eye when the eye has adjusted to darkness. Human vision generally covers the wavelength spectrum from about 400 to 700 nanometers in wavelength. The human eye contains photoreceptors in the retina of two general types, namely rod photoreceptors and cone photoreceptors. The cones are located primarily in the center of the retina, while the rods are located in a ring-like pattern around the cones. Each photoreceptor, i.e., rod or cone, responds to, or is spectrally sensitive to incoming light of a particular wavelength to generate impulses that are eventually supplied to a person's brain, whereby it is eventually interpreted as a color or image.



Rod photoreceptors respond to wavelengths in the range of about 400 to 650 nanometers with the peak spectral sensitivity being 507 nanometers during human night vision. Our EL lamp operates in a wavelength range having a peak output ranging between 504 & 507 nanometers. The resulting aqua blue colored light generated by the GLO-JO® PRO™ compliments the peak sensitivity of the human eye after the eye has adjusted to low light.





• The EL illumination technology used in the GLO-JO® PRO™- Series Helmet Band was borrowed from the US Military. This technology was used during the Gulf War to create Landing Zones (LZ's) in the dessert for Military Aircraft. The success of this illumination technology was noted in a US Air-force Study. This study indicated that pilots were able to clearly see there Landing Zone 5 miles away in a zero-visibility sand storm. (The EL markers used to set up the LZ's in this study were approximately 8.5 inch x 11 inch lamps.)

• When operating at an optimal level of brightness in a non-occluded environment, the GLO-JO® PRO™ can easily be seen at night up to 2 Miles away.

• When operating your GLO-JO® PRO™ in a "Conservative Blink Mode", fully charged batteries will maintain optimal brightness for about 48 hours. After this period, a continued diminishment in brightness will occur, with a total depletion of battery power anywhere from 88 to 96 hours.

• For shorter term operations requiring maximum brightness due to more extreme low visibility conditions, it is advised to activate your GLO-JO® PRO™ device in a "Constant Mode". This mode offers 12 hours of optimal brightness with fully charged batteries and will diminish in brightness thereafter. A total depletion of battery power will occur anywhere from 30 to 36 hours.

• When operating in smoke, haze, or fog it is recommended to use "Constant On Mode"

• When operating out doors in low light or darkness, it is recommended to use "Intermittent Blink Mode"

• It is recommended that after usage beyond optimal brightness periods, users should replace batteries with a set of fully charged ones. If one does not track battery usage; precautionary maintenance should allow for replenishment of batteries in our device at least once every 3 months.