



Aircraft laser flashes are a growing problem for pilots. The visual dazzle caused by flashes renders pilots unable to see clearly for many minutes. Increasingly, flash incidents are leaving pilots with long-term eye damage. Hand-held high-power lasers emitting red, green, and blue visible light beams are ubiquitous. These devices have myriad legitimate uses in medicine, astronomy, entertainment and business and so the market will continue to grow. Even if recent attempts to restrict sale of hand-held lasers in excess of 5 mW are successful, the components to build a high-power versions remain available for other markets, and powerful handheld lasers are easily assembled from these components. As such, regulations, enforcement and education measures currently underway may help curtail use of lasers to flash aircraft, but will not eliminate rogue incidents. Technology is needed to protect pilot's eyes. Once laser flashers realize pilots are protected from laser strikes, their incentive is gone, and so, too, hopefully, the practice of laser flashing.

Traditional laser safety eyewear aimed for medical, manufacturing and military applications does not block all three of the visible red, green and blue laser colors. Laser safety eyewear is typically uncomfortable to wear and unattractive. More importantly, available laser safety eyewear severely limits color vision, and thus renders cockpit instrument panels and navigational aides unreadable.

PerriQuest is introducing low-visual-impact, stylish, laser-defense eye-wear to address the important issue of pilot laser flash protection. PerriQuest believes pilot safety is best served by providing protective eyewear that pilots want to wear and does not interfere with the ability to pilot aircraft.

PerriQuest patent-pending laser-defense eyewear is comfortable to wear, with a large visual field, and is specifically engineered for cockpit visibility requirements including color balance, color discrimination, depth perception, and high-acuity.

PerriQuest laser-defense eyewear blocks all three, red (630 nm), green (532 nm) and blue (455 nm), visible laser beam wavelengths. PerriQuest color-balance technology does not impact a pilot's ability to discriminate colors on common display technology, including handheld devices, computer monitors, video screens, and cockpit, runway and airport illumination. In other words, PerriQuest laser-defense eyewear is specifically designed to maintain color discrimination essential for safety and navigation. Further, PerriQuest laser-defense eyewear blocks incoming laser light over very large viewing angles of over one hundred degrees, and so blocks light from many incoming beam angles.

The ambient light transmission of PerriQuest eyewear lenses provides a pleasing and comfortable amber background hue. PerriQuest Laser-Defense Eyewear is fashionable, has the strength and durability expected of high-end eyewear, and uses standard cleaning and maintenance procedures. PerriQuest eyewear is available in a day-wear version that includes sun protection and laser defense, and a night-wear version with high ambient light transmission and laser defense.

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