

DAZZLE

Laser Defense Eyewear



Laser Threat Protection for Professional and Private Pilots

To combat emerging laser threats that may be encountered by pilots during critical phases of flight, Gentex has developed a line of laser protective flight-helmet mounted visors and spectacles, Gentex Dazzle Laser Defense Eyewear. The perfect choice for commercial pilots to combat the hazards of low-intensity lasers without compromising visual acuity, Dazzle Eyewear comes available as visors for the Gentex HGU-56/P and SPH-5[®] Rotary Wing Aircrew Helmet Systems and as spectacles to be worn with or without a flight-helmet. Both formats come in day and night versions, with all lenses designed to maintain see-through color perception. Low cost of ownership, comfort, equipment compatibility, and durability round out the benefits of Gentex Dazzle Laser Defense Eyewear.



Above: Gentex Dazzle Defense Visor (Night)
Right: Gentex Dazzle Defense Visor (Night)
shown on a HGU-56/P Helmet

KEY FEATURES

Optimal Protection from Commercial Laser Threats

With Dazzle Eyewear, pilots can easily maintain flight and personal safety during lasing incidents. Key protection comes from special absorbing optical-dye and lens coating technology, which shields pilots from hazardous reflected or scattered laser light (radiation). Maximum protection is provided in the green part of the visible spectrum, where the vast majority of reported lasing events have occurred. Red/blue protection is also provided in day models and blue protection provided in night models.



Spectacle and Visor Formats Seamlessly Integrate with Gentex Rotary Wing Aircrew Helmet Systems

Obtaining protection from commercial laser threats couldn't be easier. For Gentex HGU-56/P and SPH-5 Helmet users, Dazzle Visors are a cost effective upgrade that seamlessly integrate into existing helmet systems. For general aviators, Dazzle Spectacles are a perfect alternative to standard sunglasses and may be worn with or without a flight-helmet. The spectacles utilize Navy approved frame design for compatibility with additional headborne equipment such as Helmet Mounted Displays and Night Vision Goggles.



Above: Gentex Dazzle Defense Spectacles (Night) **Right:** Gentex Dazzle Defense Spectacles (Night)
shown worn without a flight-helmet.

(Continued on back)

Contact Us

Gentex is committed to designing advanced performance capabilities for worldwide aircrew personnel. For more information on Gentex Dazzle Laser Defense Eyewear, visit our webpage at www.gentexcorp.com/distributors to locate a Gentex's authorized distributor near you. For general inquiries, contact Gentex directly at sales@gentexcorp.com.

KEY FEATURES CONTINUED

Available for Both Day and Night Wear

Ready for day or night, Dazzle Eyewear day lenses provide sunshade protection under bright conditions, and can be used as a direct replacement for the neutral gray visor of Gentex HGU-56/P and SPH-5[®] Helmet Systems. Dazzle night lenses provide nearly three times as much visible light transmission as the day lenses to maintain visibility during dark conditions, while maintaining the same level of green and blue laser light protection as the day lens.

Advanced Materials for Ultimate Protection and Durability

Designed for comfort and to withstand the rigors of aviator wear, Dazzle Lenses are made of lightweight ballistic grade polycarbonate composites that meet MIL-V-43511 and ANSI Z standards. All visors contain a high abrasion-resistant coating to minimize scratching to extend the product life. Spectacles have a tough, corrosion resistant metal frame, plus anti-reflective and oleophobic-coated lenses to reduce glare and to minimize smudging.

Wide Applicability Across Platforms and Personnel

Leveraging decades of experience with military laser eye protection, Dazzle Eyewear can be used by aviators including those in general aviation, law enforcement, customs and border patrol, and emergency services. The lens technology is designed to maintain color perception to ensure compatibility with cockpit displays in all airframes.

Gentex Dazzle Laser Defense Day (Sunshade) Lenses



Outer Day Visor
for HGU-56/P



Outer Day Visor
for SPH-5



Spectacles

Gentex Dazzle Laser Defense Night Lenses



Inner Night Visor
for HGU-56/P



Inner Night Visor
for SPH-5



Spectacles

Dazzle Laser Defense Eyewear Specifications

Lenses	Protection			Visible Light Transmission	
	Blue (445 nm)	Green (532 nm)	Red (635 nm)	Day	Night
Day	>1.5 OD	>2.5 OD	>0.8 OD	15%	n/a
Night	>1.5 OD	>2.5 OD	---	30%	40%

CAUTION: Gentex Dazzle Defense products are designed to provide protection against the wavelengths and low energy levels described herein. Use of Dazzle Defense products at other wavelengths or higher energy level than those described herein could result in serious injury.

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