



LAZRBLOC[®] LASER PROTECTIVE LENSES

For Military, Tactical and Aviation Protection Against Varied Laser Threats

As laser technology advances and becomes easier to acquire, forces the world over find themselves in the line of laser fire. Over the last decade, reported laser strikes have risen exponentially and not only are they more prevalent, but they are also more diverse. In an instant, laser strikes can cause vision disruption, distraction, disorientation, and even eye damage. In the field, any impediment to vision can be perilous, but lasers pose a particularly stealthy threat, occurring in numerous forms, wavelengths, and strengths. Forces exposed to laser incursions – whether in law enforcement, the military, or aviation – need to adapt quickly.

LazrBloc lenses encompass a suite of lenses designed to protect against a variety of visible and Near-Infrared (NIR) lasers. NIR energy is especially dangerous since it is invisible to humans and so the eye does not know to blink or look away to protect itself.

Revision LazrBloc lenses are manufactured in our Vermont facility with energy absorbing dyes that are inherent in the lens' polycarbonate, meaning they have all the same traits that you've come to expect from Revision eyewear:

BALLISTIC PROTECTION – laser lenses provide the same ballistic protection as standard lenses in the same product

OCUMAX COATINGS – since we can use our world leading anti-fog and scratch resistant coatings, the lenses are built to last

FLAWLESS OPTICS – precision manufactured lenses ensure distortion-free vision

MULTI-PLATFORM AVAILABILITY – tints available in a variety of platforms

LazrBloc laser protective lenses are integrated, interchangeable, situation-adaptable eye protection products. In a field where technological advancement is accelerating, Revision's LazrBloc ballistic lenses provide a robust and cutting-edge solution.








UNIQUE LASER SOLUTIONS

Revision is also your resource for information and development of new and unique laser solutions. With our R&D and engineering teams, proprietary software, research and testing labs, as well as our manufacturing facility, we can rapidly develop a solution, test, prove and manufacture at scale. Revision tests LazrBloc laser lenses in its state-of-the-art research and development and optical laboratories and has certified many of the lenses at 3rd party testing facilities. The spectrum of LazrBloc offerings, and the ability to conduct in-house R&D, molding, and coating, enables Revision to meet specific and varied laser protective measures, including single, multi-band, or broadband protection. Revision is committed to providing a full complement of high-impact, laser protective solutions for our customers' use in a wide variety of military and tactical environments.



REVISION LAZRBLOC LASER PROTECTIVE LENS SUMMARY

The six laser lenses below comprise the diverse LazrBloc family of laser protective products. Revision's laser protective ballistic lenses are made with innovative laser dye technology. This suite of lenses covers a large swath of the visible spectrum, with several options providing additional protection against invisible and damaging near-infrared light energy. These lenses have been carefully formulated to maximize protection—optical density (OD) – and minimize impact on the field of vision—maintaining the highest possible visible light transmission (VLT) – while providing ballistic fragment and impact defense in hostile situations.

IMAGE (FOR COLOR REFERENCE)	PRODUCT NAME	PROTECTED LASERS	OPTIMIZED PROTECTION		VISIBLE LIGHT TRANSMISSION (VLT)
	C5-6-10 (CRITICAL) NSN AVAILABLE	Violet, Blue, Green Red Ruby Near Infrared (NIR)	400-532nm 600-619nm 620-680nm 694nm 800-849nm 850-899nm 900-929nm 930-1064nm	OD 4.5 OD 0.5 OD 1 OD 6 OD 2 OD 3 OD 4 OD 5	17%
	G1-19	Violet, Blue, Green NIR	400-532nm 800-819nm 820-899nm 900-1064nm	OD 4 OD 4 OD 5 OD 6	25%
	FT-2	Violet, Blue, Green	400-532nm	OD 4	40%
	V6-10 (VITAL) NSN AVAILABLE	Red Ruby NIR	620-680nm 694nm 800-834nm 835-874nm 875-899nm 900-1064nm	OD 1 OD 6 OD 2 OD 3 OD 4 OD 5	45%
	GF-8	Green NIR	532nm 808nm	OD 2.5 OD 1.5	47%
	E2-5+	Violet, Blue NIR	400-445nm 800-820nm 821-849nm 850-1064nm	OD 4 OD 4 OD 5 OD 6	51%
	CALI-C	Violet Green NIR	405nm 532nm 1064nm	OD 3 OD 2 OD 1	59%

PLEASE NOTE:

- The VLT is reported using D65 illuminate which simulates noon-time, natural daylight.
- Not all laser formulations are available to all customers or markets.
- These ranges are based upon spectrophotometer readings from ICS Laboratories and Revision Military's laboratory.
- Individual lens protection ranges may vary.
- Revision's LazrBloc lenses provide a range of protection above and below the optimized protection wavelengths to varying degrees of optical density due to the inherent properties of the dye-based laser protection technology.
- Lenses can be custom modified to suit specific protection requirements. Please contact your Revision Military representative for more information.



OPTICAL DENSITY (OD):

The OD determines the amount of laser light which is blocked (by reflection or absorption) by the eyewear lens. Optical Density is measured at a specific wavelength and is defined as:

OPTICAL DENSITY (OD)	LASER LIGHT TRANSMITTANCE	BLOCKED LASER LIGHT	MAXIMUM PROTECTED LASER POWER
0.0	100.0%	0%	0mW
1.0	10.0%	90.0%	10mW
1.5	3.2%	96.8%	32mW
2.0	1.0%	99.0%	100mW
2.5	0.3%	99.7%	316mW
3.0	0.1%	99.9%	1,000mW
4.0	0.01%	99.99%	10,000mW
5.0	0.001%	99.999%	100,000mW
6.0	0.0001%	99.9999%	1,000,000mW