



I-VIS™ LENS TECHNOLOGY

Isn't it time for your lenses to work as hard as you do?

When you're in the field, your brain is constantly working: identifying threats, making quick decisions, and taking decisive action. No matter where you are in the world you need all your senses to be working in peak form.

Every theater of operation has a range of colors and lighting that define the overall environment:

- **JUNGLES AND FORESTS** contain lush greens with canopied lighting
- **DESERTS** are a sea of tans and browns lit by open sky
- **ALPINE** areas are crisply lit scree fields of browns and greys above the treeline
- **URBAN** areas are dominated by grays and variable light conditions
- **ARCTIC** areas feature vast snowfields of white and blue

While it would make sense for your eyewear to be adaptable to each of these environments, most protective lenses leave all the work to your eyes and brain to adapt, leading to eye fatigue.

That's why we developed our new I-Vis lens technology. Using artificial intelligence, we are able to quickly determine the best lens color for each environment based on the color palette of the location along with the prospective light conditions.

An easy way to understand how our I-Vis lens solutions provide a more accurate vision, is by looking at the four images below. They are printed at the same pixel resolution, but with varying levels of color depth. As the number of colors rise, so does the amount of detail. Our lenses boost certain colors in your environment so you can better see the detail.



4 colors

16 colors

256 colors

16,777,216 colors

The result is a system of lenses that allow you to experience greater color depth in a given environment versus the naked eye. This greater color perception provides faster recognition of threats, both static and active. For example, a soldier using the environmentally appropriate lens is more likely to notice the difference between two shades of brown that indicates the disturbed earth around a buried IED, or it will make a trigger wire stand out from background colors more readily.

It's eyewear innovation at a whole new level.

LEGEND

CAT3		Bright, Sunny Reflective Light
CAT2		Sun/Shade, Partly Cloudy Skies
CAT1		Overcast, Flat Lighting

I-VIS LENS SOLUTIONS

Custom-engineered lens solutions - each designed to maximize visibility, minimize interference, reduce eye fatigue and optimize performance for the environment you are operating in.

LENS				VISIBLE LIGHT TRANSMISSION (VLT)*
ALTO  CAT3 		GEOGRAPHICAL LOCATION	Suited to dry, high-altitude environments dominated by grays, tans, and blues such as those found in northern Afghanistan.	12%
		LENS PERFORMANCE	Brings out differences in prevalent landscape colors to help troops read terrain and notice foreign objects, roads, and people.	
UMBRA  CAT1 		GEOGRAPHICAL LOCATION	Modeled for use in areas like northern Europe, Scandinavia, the Baltics, and Poland.	48%
		LENS PERFORMANCE	Brings out color contrast in overcast, snow-covered scenes that are dominated by whites and grays found in snowy wooded areas, rocks, and mountains. This lens will help soldiers better see the undulations of snowpack, identify recently covered tracks, estimate distances, and makes man-made structures, vehicles, and people stand out.	
CLARA  CAT3 		GEOGRAPHICAL LOCATION	Modeled for use in areas like northern Europe, Scandinavia, the Baltics, and Poland.	12%
		LENS PERFORMANCE	Brings out color definition and contrast in areas of white, gray, and blue found in snowy wooded areas, rocks, and mountains. This lens will help soldiers better see the undulations of snowpack, identify recently covered tracks, estimate distances, and makes unnatural objects stand out.	
AROS  CAT3 		GEOGRAPHICAL LOCATION	Developed for typical desert environments with browns, tans, small terrain changes and low rocks, shrubs and minimal plant life.	12%
		LENS PERFORMANCE	Brings out differences between similar shades of brown, tan, yellow, and orange colors while making man-made structures and objects stand out.	
CANO  CAT2 		GEOGRAPHICAL LOCATION	Modeled for dense, lush foliage including trees, rocky areas, and limited sky visibility through the canopy.	37%
		LENS PERFORMANCE	VLT is maximized for this lens since operations will be conducted in densely forested areas where the canopy heavily shades the terrain. Foreign objects will stand out, as will differences in the foreground landscape.	
VERSO  CAT3 		GEOGRAPHICAL LOCATION	Our most technically complex lens designed to thrive in the widest range of environments and settings.	19%
		LENS PERFORMANCE	Excels at separating colors, expanding the volume of color visible to the soldier in many environments. If the soldier is unsure of the mission profile, this is the lens to use.	

*VLT may vary +/- 5% based upon eyewear form factor, lens thickness and coatings.