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CAPTIVATE™

COLOR REDEFINED



# COLOR REDEFINED

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CAPTIVATE™ LENSES FILTER LIGHT,  
REVEALING VIVID DETAIL, VIBRANT  
CONTRAST AND OPTIMAL CLARITY.

**CAPTIVATE™ REDEFINES COLOR.**

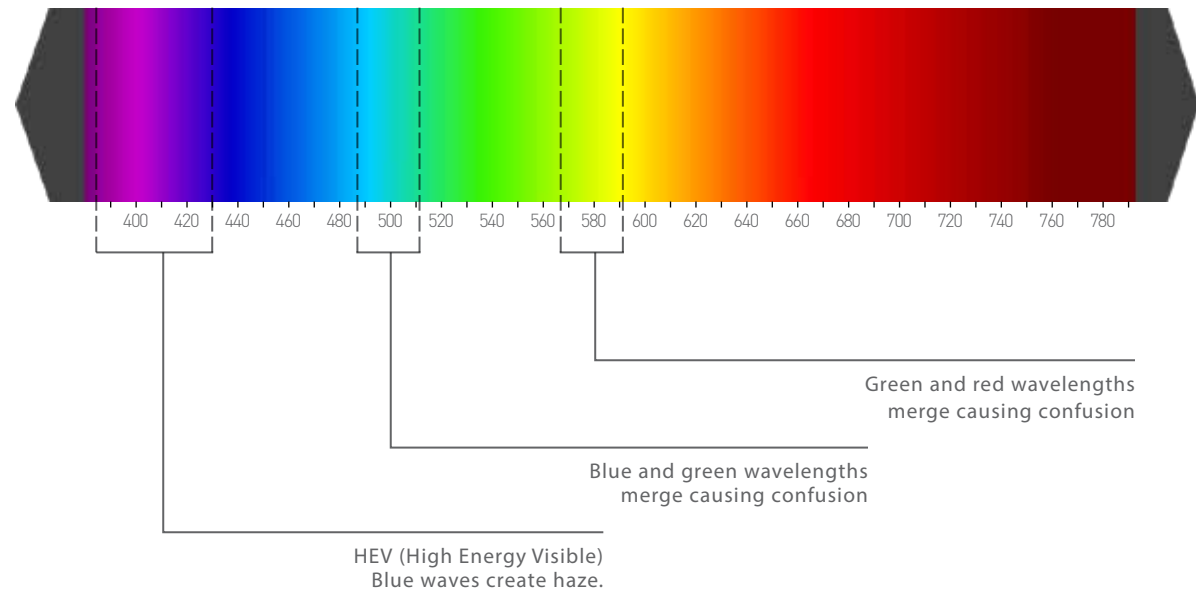


## VISUALIZING THE LIGHT SPECTRUM

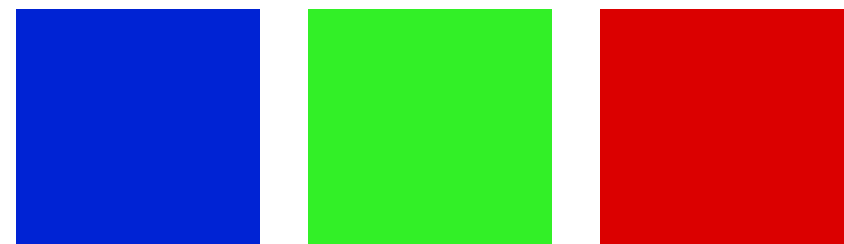
EVEN THOUGH THE HUMAN EYE CANNOT SEE THE ENTIRE LIGHT SPECTRUM. CERTAIN AREAS OF IT ARE DIFFICULT FOR THE EYES TO SEE CLEARLY, AND OTHER AREAS ARE VERY DANGEROUS TO YOUR EYES' HEALTH. CAPTIVATE LENSES FILTER OUT HARMFUL RAYS AS WELL AS LIGHT THAT CONFUSES THE EYE, INCREASING CLARITY AND DEFINITION WITH VIBRANT CONTRAST AND VIVID DETAIL.

The visible light spectrum runs in a range of wavelengths from Ultraviolet through to Infrared and is measured in nanometers. A typical human eye will respond to wavelengths from about 380 to 740 nanometers.

### LIGHT SPECTRUM SEEN WITH THE NAKED EYE



### LIGHT SPECTRUM SEEN THROUGH CAPTIVATE™



OUR PATENTED CAPTIVATE™ LENSES FILTER OUT HARMFUL UV / HEV LIGHT AND EYE-CONFUSING LIGHT TO MAKE THE COLOR SPECTRUM CLEARER. THE RESULT IS INCREASED CONTRAST AND GREATER CLARITY.

# THE VISUAL BENEFITS OF CAPTIVATE™ LENSES

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## **ENHANCED COLOR**

CAPTIVATE™ filters out the light where blue merges with green and green merges with red. This allows more light where it's easier for your eyes to see, resulting in enhanced blues, greens and reds for a true color experience.

## **GREATER CLARITY**

Blue light with shorter wavelengths and higher frequencies scatter light and create haze. By filtering out this "bad" blue light, CAPTIVATE™ removes the haze and allows distant objects to be seen more clearly.

## **INCREASED CONTRAST**

CAPTIVATE™ technology is offered in a variety of tint options so you can fine-tune your choice of lens based on the specific needs of your environment.

## **BETTER DEPTH PERCEPTION**

By eliminating the blue light haze while separating and enhancing colors in the visual spectrum, CAPTIVATE™ lenses will enhance depth perception.







## **INCREASED ALERTNESS/ELEVATED MOOD**

CAPTIVATE™ lenses allow the beneficial side of blue light to be seen. This helps maintain the body's Circadian biological clock and the sleep/wake cycle. This beneficial blue light also boosts alertness, helps memory and elevates mood.

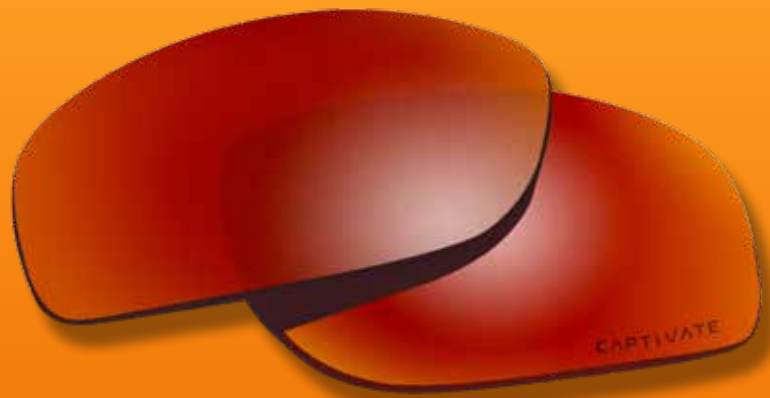
## **BLOCKS UV AND HEV RAYS**

CAPTIVATE™ blocks the UV/HEV rays of light that are harmful to our eyes, reducing the risk of damage to retinal cells and age-related macular degeneration.

# CAPTIVATE™ LENSES

CAPTIVATE LENS	VISUAL BENEFITS	DESIGNED FOR	VLT	CONDITIONS
 <p>CAPTIVATE POLARIZED PLATINUM FLASH (GREEN BASE)</p>	<ul style="list-style-type: none"> <li>Reduces harmful blue light that can cause negative short-term and long-term effects on the eye</li> <li>Reduces glare across reflective surfaces</li> <li>Provides a balanced color perception</li> </ul>	<ul style="list-style-type: none"> <li>General daytime driving. Improves the ability to see the road and identify potential hazards</li> <li>Deep water fishing to maximize the reduction of excess blue light that's reflected by the water</li> </ul>	<p>13% +/- 3%</p>	Bright Sun
 <p>CAPTIVATE POLARIZED RED MIRROR (GREY BASE)</p>	<ul style="list-style-type: none"> <li>Red light reduction with ~15-20% infrared protection</li> <li>Reduces yellow and orange peaks to allow blues and greens to appear more vivid</li> <li>Reduces glare across reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Reduces excess blue light reflected off of water, allowing for comfortable vision white boating or fishing in salt or freshwater</li> <li>Activities with green landscapes such as hiking or playing golf</li> <li>Comfortable driving lenses that prevent eyestrain</li> <li>General daytime outdoor activities</li> </ul>	<p>13% +/- 3%</p>	Intense Sun Bright Sun
 <p>CAPTIVATE POLARIZED GREEN MIRROR (COPPER BASE)</p>	<ul style="list-style-type: none"> <li>High-performance on slightly cloudy/overcast days</li> <li>Minimizes blue light that's reflected from white (lines on the road) and blue objects</li> <li>Greens, oranges, and blues appear more vivid</li> <li>Reduces glare across reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Activities with green landscapes such as hiking or playing golf</li> <li>Moderate deep to shallow water fishing to allow for better depth perception that highlights rocks in underwater landscapes in rivers and streams</li> <li>General day driving with high-performance on roads with white lines</li> </ul>	<p>12% +/- 3%</p>	Bright Sun Changing Light
 <p>CAPTIVATE POLARIZED COPPER (COPPER BASE)</p>	<ul style="list-style-type: none"> <li>Colors are evenly distributed based on wavelength strength for increased contrast and performance</li> <li>Reduces blue light to allow more saturation of colors in red, yellow, and green areas</li> <li>Reduces yellow light enabling the wearer to see more yellow shades in the environment</li> <li>Reduces glare across reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>High-performance on slightly cloudy/overcast days</li> <li>Heightens contrast/color throughout all environments for a variety of outdoor activities (hiking, biking, golfing, etc.)</li> <li>Shallow water fishing with red clay or brackish water</li> <li>Works well without altering too much of the color vision while driving</li> </ul>	<p>16% +/- 3%</p>	Bright Sun Changing Light
 <p>CAPTIVATE POLARIZED BLUE MIRROR (GREY BASE)</p>	<ul style="list-style-type: none"> <li>Equalizes visible light spectrum to help light come into the eye with more uniformity</li> <li>Keeps most colors neutral while enhancing greens</li> <li>Reduces glare across reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Deep water fishing to maximize the reduction of excess blue light that's reflected by the water</li> <li>Comfortable driving lenses that prevent eyestrain</li> <li>General daytime outdoor activities</li> </ul>	<p>10% +/- 3%</p>	Intense Sun Bright Sun
 <p>CAPTIVATE POLARIZED ROSE GOLD (GREEN BASE)</p>	<ul style="list-style-type: none"> <li>High-performance on slightly cloudy/overcast days</li> <li>Reduces orange and blue peaks to allow greens and yellows to appear more vivid</li> <li>Reduces glare across reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Reduces glare and heightens greens making this lens perfect for general water activities</li> <li>Activities with contrasting landscapes highlighting yellows and greens such as hiking or playing golf</li> <li>Ideal VLT% for changing light conditions making them good for morning to late-afternoon</li> </ul>	<p>15% +/- 3%</p>	Bright Sun Changing Light
 <p>CAPTIVATE POLARIZED GREY (GREY BASE)</p>	<ul style="list-style-type: none"> <li>Equalizes visible light spectrum to help light come into the eye with more uniformity</li> <li>Keeps most colors neutral while enhancing greens</li> <li>Reduces glare across reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Heightens contrast/color throughout all environments for a variety of outdoor activities (hiking, biking, golfing, etc.)</li> <li>Deep water fishing to maximize the reduction of excess blue light that's reflected by the water</li> <li>Comfortable driving lenses that prevent eyestrain</li> <li>General daytime outdoor activities</li> </ul>	<p>13% +/- 3%</p>	Intense Sun Bright Sun
 <p>CAPTIVATE POLARIZED BRONZE MIRROR (COPPER BASE)</p>	<ul style="list-style-type: none"> <li>Colors are evenly distributed based on wavelength strength for increased contrast and performance</li> <li>Reduces blue light to allow more saturation of colors in red, yellow, and green areas</li> <li>Reduces yellow light enabling the wearer to see more yellow shades in the environment</li> <li>Reduces glare across reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>High-performance on slightly cloudy/overcast days</li> <li>Any activity with lots of yellow landscapes such as hiking in grasslands</li> <li>Shallow water fishing with red clay or brackish water</li> <li>Works well without altering too much of the color vision while driving</li> </ul>	<p>15% +/- 3%</p>	Bright Sun Changing Light

# CAPTIVATE™ LENSES ARE EXTREMELY RESILIENT



## **OLEOPHOBIC PROPERTIES**

Wiley X utilizes a proprietary oleophobic coating on all Captivate lenses to create a smoother lens surface, which helps to keep dust, dirt, oil, snow and water from sticking to the lens. This in turn helps prevent smudging and water spots, making the lenses much easier to clean than an uncoated, standard lens.

## **SCRATCH/ABRASION RESISTANCE**

Captivate lenses achieve a Bayer 7 rating\* for scratch resistance. A rating of 4 or higher equates to a premium coating.

### **\*BAYER ABRASION TEST, EXPLAINED <sup>[1]</sup>**

The Bayer test is one of the most often cited test methods for abrasion resistance. This test subjects both a coated lens and an uncoated lens to abrasion from oscillating "sand." After a set number of cycles, the haze gain is measured on both lenses. The ratio of haze gain of the uncoated lens to the coated lens is the Bayer Ratio. A Bayer Ratio of "1" means that the coating has equivalent abrasion resistance to uncoated lens. A Bayer Ratio of "7" means that the uncoated standard lens had seven times the haze gain as the coated lens. A common standard Bayer Ratio equal to "4" or greater is considered by the industry to be a premium coating.

[1] (November,2011). Testing Scratch Resistant and AR Lenses, <https://www.2020mag.com/article/testing-scratch-resistant-and-ar-lenses>.

# ANSI-RATED PROTECTION. ANSI-RATED CLARITY.

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## **ANSI Z87.1 RATED PROTECTION**

Founded on supplying military forces and law enforcement personnel with top-of-the-line ballistic eyewear, Wiley X continues to hold safety as a priority, adapting this approach to our entire line and building eyewear with the highest levels of protection available. Wiley X ANSI rated frames and lenses must withstand the impact of a 1.1lb. projectile dropped from a height of 50" to ensure your eyes are protected from unexpected blunt force impacts. They must withstand the impact of a .25" diameter steel ball traveling at 150fps.

## **ANSI Z87.1 RATED OPTICAL CLARITY**

All Wiley X lenses meet the strictest ANSI optical clarity requirements. We tirelessly test all of our lenses against ANSI's strict standards for the accuracy of vision.

### **RESOLVING POWER (CLARITY)**

Ordinary lenses can distort objects viewed from a distance. As measured in tests utilized for the ANSI standard, Wiley X lenses provide a clearer view.

### **REFRACTIVE POWER**

Inferior lenses can alter the true size of objects as if looking through another person's prescription lens. Wiley X ANSI safety rated lenses maintain true relative object size.

### **PRISMATIC POWER**

It is common for ordinary lenses to bend light, causing focal objects to appear off center. Wiley X ANSI safety rated lenses provide a true spatial relationship of objects in the field of view.



**ENHANCE  
YOUR  
PURSUITS  
WITH  
CAPTIVATE™**





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