

# ALTIUS® Technology Research Overview

30 May 2024 Update

## RESEARCH RESULTS Summary:

- Absorbs 100% of UV
- Absorbs >99% of the Blue Light
- Is a viable alternative for individuals with photosensitivity complaints
- Is a viable option for individuals participating in water sports
- Can withstand a minimum of 5x the force to create a corneal abrasion
- Improves dynamic visual fixation (moving target tracking)
- Reduces perceived visual stress in bright outdoor conditions
- Provides better speed of visual recovery in bright sunlight
- Provides superior contrast sensitivity (discrimination) in bright outdoor conditions
- Enhances absolute threshold low contrast visual acuity by an average of ~13% in bright outdoor conditions
- Provides superior low-contrast acuity versus eye black grease in bright outdoor conditions
- Enhances speed-of-recognition of low contrast visual acuity by an average of ~25% in bright outdoor conditions
- Allows ~20% greater pupillary response when transitioning from bright to dim light conditions
- Provides superior contrast sensitivity (discrimination) when alternating between bright and shaded targets in bright outdoor conditions
- Provides superior contrast sensitivity in moderately lit indoor conditions
- Provides better overall visual target conditions compared to clear lenses in bright and shadowed outdoor conditions
- Reduces straylight scattering to the retinal receptors (improves visual sensitivity)
- Low handicap golfers perceived superior visual comfort on the green
- Low handicap golfers judged their ability to read greens was improved
- Professional soccer goalkeepers perceived superior visual comfort in both bright and overcast outdoor conditions
- Collegiate baseball players within a team demonstrated dramatic improvements in batting statistics while wearing *SportSight*™ tinted soft contact lenses versus non-participating team members.
- Provides greater perceived visual performance compared to sunglasses in both indoor and bright outdoor conditions
- Reduces perceived image degradation caused by stray light compared to sunglasses and clear contact lenses in both indoor and bright outdoor conditions
- Reduces perceived image degradation caused by lens reflections compared to sunglasses in bright outdoor conditions
- Eliminates perceived visual field restrictions present in sunglasses
- Provides an average of 47% larger monocular visual fields in all meridians compared to sunglasses
- Provides ~42% larger binocular visual fields (2-eyed use for stereo sensitivity / depth perception) than sunglasses

- Provides ~11% better physical comfort compared to sunglasses in bright outdoor conditions

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