

SPORTS VISION PERFORMANCE

GIVES ATHLETES THE COMPETITIVE EDGE!

A recent research study, published in the *Journal of Sports Science and Medicine*^{*}, concluded that certain visual abilities are trainable and can be improved by means of an appropriate visual training.

SPORTS VISION PERFORMANCE from M&S quickly tests EIGHT aspects of vision that are critical for optimal sports performance:

1. VISUAL ACUITY
2. CONTRAST SENSITIVITY
3. VISUAL PROCESSING SPEED
4. EYE MOVEMENT/COGNITIVE SKILLS
5. DYNAMIC ACUITY
6. FUSIONAL ABILITY
7. EYE ALIGNMENT
8. DEPTH PERCEPTION

See reverse side for details of
Sports Vision Performance

*“How you test athletes in your office makes
all the difference on the playing field”*

The Sports Vision Performance protocol can be administered from a laptop or from the full SmartSystem[®] Visual Acuity Testing System.



FEATURES OF SPORTS VISION PERFORMANCE (SVP):



VISUAL ACUITY TESTING: SVP allows the administrator to test for visual acuity down to the physiological threshold of 20/8. The randomized charts eliminate any chance of memorization. The protocol is calibrated to settings that comply with the ANSI and ISO standards for vision testing.



DEPTH PERCEPTION/CONTOUR STEREO TESTING: Tests the dimensional capabilities of the athlete's vision, a critical component of many sports. Normal ocular health and good visual acuity scores are not indicative of optimal distance stereopsis for athletes, therefore this is a key test for athletes.



LETTER CONTRAST SENSITIVITY TESTING: Contrast Sensitivity has been found to be a significant differentiator in a player's performance. Whereas visual acuity measures the *quantitative* aspect of vision, contrast testing measure the *qualitative* aspect of vision – from locating a baseball in the air on a cloudy day to picking out a hockey puck against a background of spectators' clothing.



DEVELOPMENTAL EYE MOVEMENT: This test helps find a differential diagnosis between cognitive function and any eye movement problems. The athlete reads aloud a set of numbers *without* using any horizontal eye movements and then reads aloud the same number of digits using horizontal eye movements.



EYE ALIGNMENT: The eye alignment test measures the tendency of the athlete's vision to turn in or out, up or down. Results are compared against normal deviations of 3 or less prism diopters in the inward direction, 5 or less prism diopters in the outward direction, and less than 2 prism diopters up and down.



FUSIONAL ABILITY: Measures how well the eyes are working together. The visual targets are separated until the athlete reports seeing double. This test also indicates how well the athlete can compensate for eye alignment issues. The better the fusional ability, the better the athlete can compensate for alignment problems.



DATA COMPARISON: SVP analyzes and compares the athlete's results based on norms from an established database of his/her peers. This allows the eye care professional to identify areas that may need to be improved for maximum visual function in athletic endeavors. *Note: Database participation is optional; requires a subscription.*



AUTOMATED PROTOCOL: SVP is designed to step the administrator through the protocol with ease and precision; in other words, the protocol does the work. This eliminates biased interpretation, and assures consistency and accuracy from test to test, visit to visit.

BENEFITS OF M&S SPORTS VISION PERFORMANCE:

- Results in a comprehensive vision exam
- Increases patient traffic which leads to increased sales in frames, contacts, etc.
- Portable protocol when used on a laptop
- Updates via the internet (with subscription)
- Technical support from trained technicians



M&S holds U.S. Patents 7,354,155; 7,926,948; 8,419,184; 8,167,429; 8,419,184 and 8,550,631. Other patents pending.

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Vision Testing Systems

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