

Tru-Vu Omniscreen™ Eyeset for the DAVID PAL

Tru-Vu Omniscreen™ Eyesets are the Favorite of Most Experienced Users.

Our unique patented Tru-Vu Omniscreen™ Eyesets have been carefully designed to provide you with the most [effective and safe light and sound experience](#). The Tru-Vu Omniscreen™ Eyeset uses eight blue-tinted white, wide angle LEDs mounted over a silver reflector behind a translucent screen. This disperses the light evenly and protects the LEDs. These LEDs are extremely efficient and last for over 100,000 hours. Because they draw so little power, they also allow for longer battery use.



The maximum intensity of the lights in the eyesets is about 800 lux, spread out over two square inches per eye. This provides a well distributed illumination throughout the entire visual field allowing you to move your eyes in any direction (either up or down, left or right) without interfering with the smoothness of the light in the visual field. This coverage provided by the Omniscreen™ Eyeset far exceeds that of **any** other eyeset (which have an approximate coverage of 1/3 of a square inch). When an independent review was conducted of various light and sound products, the Omniscreen™ Eyesets rated 100% in light dispersion compared to the next highest rating of 46.7% in a competitor's eyeset. In this review, the Omniscreen™ Eyesets consistently rated the best out of all the other eyesets.

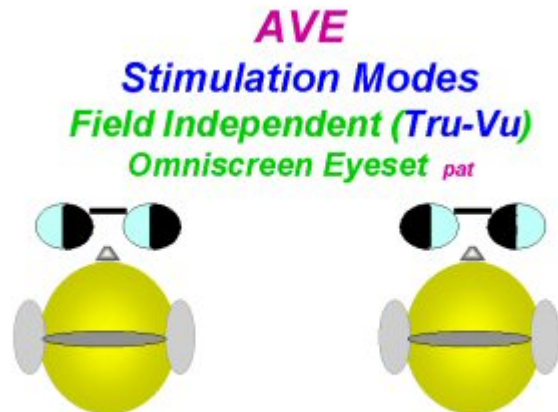
Not only are the Omniscreen™ Eyesets comfortable, but they are also built to last! They are made from sturdy, high quality sunglasses. The LEDs are protected and securely fastened behind the screen layer. This makes the Omniscreen™ Eyeset very popular with parents using the DAVID with their children. The cord is also detachable from the eyeset reducing the risk of damage to the cord.

Tru-Vu Omniscreen™ Eyesets Use Blue-Tinted White LEDs.

Our Tru-Vu Omniscreen™ Eyesets use small blue-tinted white LEDs. We believe that in order for you to achieve effective and safe brainwave entrainment, light blue should be used because:

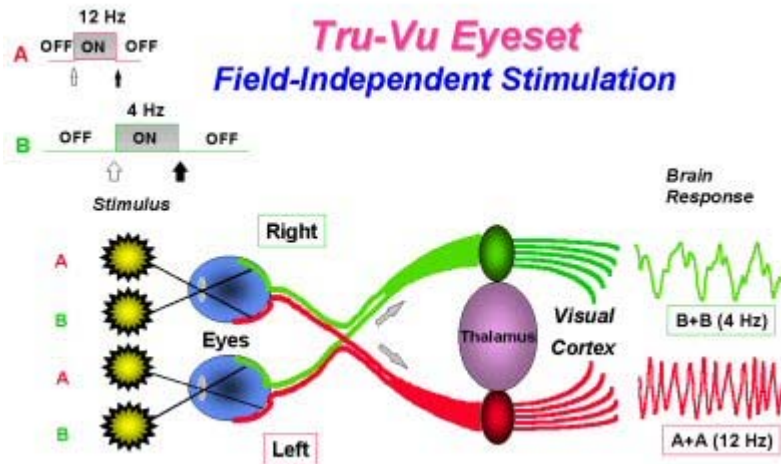
- White light offers full spectrum stimulation to ensure that the red, green and blue cones of the retina receive full stimulation similar to natural light spectrum.
- White light has been proven most effective in imagery relaxation and visualization.
- Research with chronic pain patients revealed that red light actually increased the user's anxiety and pain, however, white light produced beneficial results. Studies show that red lights actually increase GSR activity and muscle tension.
- A scientific study showed that red LEDs are more likely to cause a photo convulsive response in people who are photo epileptic.
- Because red LEDs stimulate only a portion of the total visual field and the eye is always moving, the "red spot" seen by the eye is always bouncing about within the visual field. The brain processes this as information and entrainment is often interrupted as a result.
- Clear encapsulated LEDs make a semi-laser light which may actually burn the retinas of the eyes if used with the eyes open.

Tru-Vu Omniscreen™ Eyesets Stimulate Each Visual Field Independently.



Comptronic Devices Ltd 1996

Our new Tru-Vu Omniscreen™ Eyesets are specially designed to allow for the left and right visual fields of each eye to be individually stimulated rather than the entire eye. Now you can experience a whole new dimension to light and sound stimulation! The Tru-Vu Omniscreen™ Eyesets are so unique that we have patented both the design and the process.



When using focus during light and sound sessions, the Tru-Vu Omniscreen™ Eyesets operate the same as with ordinary stimulation. But when using expand, hemistep or dual frequency, the stimulation is very different with the Tru-Vu Omniscreen™ Eyesets. This new approach reduces the brainwave frequency doubling effect that occurs when expand is used with the ordinary style of visual stimulation.

The visual pathways to the brain are routed via the nerve network called the optic chiasm. The optic chiasm connects the left visual fields of both eyes to the right hemisphere of the brain and vice versa.

Because the optic chiasm is wired this way the old, conventional method of expand rarely produces a visual evoked frequency at the same frequency as the stimulus. While expand stimulates each eye at different times, both visual fields and both visual cortexes are also stimulated with each flash of light. An 8 Hz alternating stimulus will flash in the left eye eight times and flash in the right eye eight times in one second, generating a visual evoked response of 16 Hz. In other words, the visual evoked response or brainwave entrainment (BWE) response is double the stimulus frequency when using expand or other alternate patterns of stimulation.

With the field-independent method, the eyeset flashes light into the left visual fields of both eyes, then alternately flashes into the right visual fields of both eyes. This approach allows the ability to stimulate either visual cortex with a frequency different from the other visual cortex. For example, a person who functions strongly from the left brain could have 8 Hz stimulated into the right visual field (and therefore the left brain) to slow down left brain function and have 18 Hz stimulated into the left visual field to increase right brain function. Using spectral analysis EEG, we have seen evidence of this effect.