NeurOptics Introduces First Hand-held Variable Light Condition Pupillometer to Optimize Outcomes for Refractive Surgery and Premium Intraocular Lens Candidates

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IRVINE, Calif., Sept. 7, 2011 /PRNewswire/ -- NeurOptics, the worldwide leader in pupillometry, today announced the availability of the new VIP™-200 Variable Pupillometer for the measurement of pupil size under varying light conditions to enhance opportunities for successful outcomes for refractive surgery and premium intraocular lens candidates. Using infrared imaging technology, the VIP™-200 measures the pupil 30 times per second over a two-second period at scotopic, low mesopic and high mesopic light levels and provides the average pupil diameter and standard deviation with accuracy exceeding 0.1 millimeter. Pupil size measurement during a pre-operative evaluation is crucial for today's refractive surgeons when screening candidates for LASIK, and is particularly helpful for optimizing the premium IOL selection for the patient based upon the patient's stated preferences about the level of vision he or she values most (e.g., distance, intermediate or near), occupation, lifestyle, and frequency of nighttime driving. Pupil size affects vision with any IOL, but even more so for so-called "pupil-dependent IOLs". An avid reader, for example, especially one who reads in dim light, would be suited for a different premium lens than a golfer. The most pertinent information will be obtained by measuring a patient's pupils under varying light conditions which simulate real life conditions a patient may experience in daily life such as darkness, a dimly lit room, and driving at night with streetlights.

The VIP™-200 Variable Pupillometer is a single-button activation, battery operated hand-held device which very accurately measures pupil size with no user calibration required. This portable device can be taken to the patient and does not require a dedicated space in the clinic. The Pupillometer can instantly measure, record and report average pupil size and standard deviation and the measurement results are '/>"/>

SOURCE [1]

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