neurolens®
Relief is in Sight

VISION. REDEFINED.

Take your practice to the *third power* with N3

Precision | Prism | Patients

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Vision Redefined

Powered by over *ten billion data points* on patient visual behavior and over ten years of proven patient outcomes, **Neurolens is proud to introduce N3—an immersive, engaging patient experience that educates while measuring**.

N3 provides an objective, accurate, and repeatable measurement of binocular alignment, which incorporates elements of heterophoria, fixation disparity, accommodative convergence response, and central and peripheral alignment.

Specifically, N3 measures eye misalignment at distance and near using a dissociative test where the eyes are shown independent non-fusible targets, and direction of gaze is measured. This measurement is combined with an associative test where peripheral fusion is attained, and central alignment is measured. Effectively, this measurement of eye alignment is an objective measurement of the angle of strabismus and/or an evaluation of binocular vision.

> *"N3 is such a great patient experience. I walked into the exam room to patients that were actually excited to talk about vision solutions—Neurolenses and beyond!"*
>
> Amanda Nanasy, O.D.
> Florida Institute of Sports Vision

N3 consists of a stereoscopic display and a sophisticated eye-tracking mechanism for an objective measurement that does not rely on subjective assessments from either the practitioner or the patient. The patient simply needs to be able to maintain a gaze at a target throughout the duration of the test, and the system does the rest.

The test consists of a distance measurement at 1.7m which is based on typical TV viewing distance, a key indicator of patient visual behavior, and a near measurement at 50cm which is based on typical reading distance, also a key indicator of patient visual behavior. Each measurement consists of a base alignment and fine alignment.

The base alignment is a dissociative test where the system presents each eye with non-fusible images, and the patient is instructed to look at a fixation target that is geometrically placed at the measurement distance. While looking at the target, the system measures the complementary eye for latent strabismus. This test is done while presenting the fixation target for one eye while the complementary eye is shown unrelated graphics.

Once the patient's natural phoric posture is determined, the system presents a moving peripheral fusible image binocularly at the patient's phoric posture while instructing them to look at a fixation target which is presented to one eye at a time. This fixation target will iteratively move to neutralize eye movement and determine the optimal binocular alignment of the patient at the testing distance. This test is most similar to a fixation disparity test.

In short, N3 is a fast and accurate way for any eyecare provider to measure eye misalignment down to a fraction of a prism diopter, regardless of binocular vision experience. In addition, N3 is also easy to use and staff-friendly, supported by a thorough implementation process and best-in-class ongoing customer support.

> *"Patient flow is a top priority in my practices, but N3 fit seamlessly within our existing processes. And having N3 in every exam lane created an environment where every OD was walking directly into a conversation with an engaged patient, every time!"*
>
> Brenda Montecalvo, O.D.
> Nova Vision Care

Combining years of experience in machine learning with cutting-edge VR technology, N3 delivers a 360° patient experience that takes your practice to the third power:

- The power of ***Precision***, delivering accurate and repeatable measurements
- The power of ***Prism***, leveraging the proven designs of Neurolenses
- The power of ***Patients***, with clinically-proven symptom relief

Learn more about becoming a provider at **neurolens.com**

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