



# Neuro Equilibrium<sup>®</sup>

**Cutting-edge technology for  
diagnosis and treatment of  
vertigo & balance disorders**

# ADVANCED VNG MODEL 505

**NeuroEquilibrium™ VNG** is a state-of-the-art system — the most non-invasive, accurate, reliable and affordable way of evaluating the vestibular and oculomotor systems. It is the most advanced technology for observation, measurement and analysis of eye movement during various oculomotor and vestibular tests. This cutting-edge equipment eradicates the issue of myogenic and electrical noise seen in ENG.

NeuroEquilibrium™ VNG evaluates peripheral and central vestibular functions through the following protocols:

- Spontaneous nystagmus with and without optic fixation
- Gaze evoked nystagmus
- Saccades - Random Target Movement
- Smooth tracking with varying frequencies
- Optokinetic test
- Head shaking test
- Caloric test
- Positional testing, including Dix-Hallpike test, McClure's test, supine and deep head hanging
- Valsalva, hyperventilation and vibration-induced nystagmus
- Skew deviation



NeuroEquilibrium™ VNG has the industry's leading binocular goggle design.

- No adjustment required for focus or mirror setting.
- Lightweight with direct USB connection to a laptop or desktop computer.
- Easy fit magnetic cover allowing for both occluded and unoccluded measurements.
- Built in fixation light to simplify testing.
- Runs with an advanced eye tracking algorithm that eliminates errors caused by blinking.

# Product Specifications

**Real time analysis** of all parameters with real time recordings.

## Advanced video playback

- Pause, slow-motion, and beat-by-beat playback options allow playback in line with VNG tracings as you scroll through the recordings.
- Easy video storage and file transfer to external media storage.

## Superior oculomotor stimuli

- Projector image instead of traditional light bar to ensure better optokinetic stimulation along with fixed and random saccades, and smooth pursuit recording at varying frequencies.

## Comprehensive reporting

- Detailed, customized reports automatically created in easy format.
- Concise and organized reports, stored on the cloud, makes it convenient to view data from anywhere and share data easily.

## Intelligent Software

- The most advanced eye tracking algorithm.
- The NeuroEquilibrium™ algorithm automatically calculates the slow phase velocity and counts the number of beats per second.
- Automatically selects the best 30 seconds in caloric testing.
- Starts the built-in fixation light and calculates the fixation index automatically.
- Corrects the effect of spontaneous nystagmus in caloric index.
- Automatically calculates directional preponderance and canal paresis.
- Advanced algorithm to generate random saccades and remove anticipated saccades and automatically calculate latency, precision and velocity.
- Generates smooth pursuit at varying frequencies and automatically calculates gain.
- Automatically generates graphs of all parameters with easy visual comparison with normative data.

# Camera Speed

- Better recording with USB technology with high resolution video images and superior best-in-class cameras.
- Enhanced image quality because of a high frame rate camera.
- Easy torsional eye movement observation.



**NeuroEquilibrium™** provides systems for comprehensive management of vertigo and balance disorders by breakthrough innovations. Our strategy is to set up specialized advanced vertigo and balance clinics across the world in collaboration with leading ENT and neurology clinics and multi-speciality hospitals through:

- Neurotological evaluation with our suite of world class diagnostic equipment
- A team of neurotological specialists.

We are India's first robust diagnostic platform helping doctors diagnose and treat vertigo and balance disorder across the world.

Let's **get together** to  
restore **balance**



**Neuro  
Equilibrium**  
Diagnostic Systems Pvt Ltd.

140, Sri Gopal Nagar,  
Gopalpura Bypass Road,  
Jaipur - 302015  
India

info@neuroequilibrium.in  
www.neuroequilibrium.in



**An ISO 9001 and ISO 13485 certified company**