



## Determine central and peripheral disorders



### **Greater precision – faster diagnosis**

Central, peripheral or both? The oculomotor tests of ICS Impulse assist you in making this determination. With the innovative goggles and advanced test battery, determination of the presence of a central pathology is available at the bedside or in the clinic.

# Oculomotor test battery

## Gaze

Gaze includes the ability to assess for both gaze-evoked nystagmus and spontaneous nystagmus. These tests can be performed with vision or with vision denied. Gaze position displays the exact degree of eye movement. The Gaze graph displays an overview for gaze test, the direction of nystagmus and an indication of robustness.\*

## VOR (Vestibulo-Ocular Reflex)

VOR includes Visual VOR (VVOR) and VOR Suppression (VORS) tests. VOR tests identify the presence or absence of saccadic eye movement in order to simultaneously test for the coexistence of vestibular and cerebellar pathology. The unique design of the goggle presents the suppression stimulus from the goggle in order to assess VORS in any location.

## Skew deviation

Skew deviation assesses the patient's ocular alignment by identifying if vertical ocular misalignment occurs as a result of covering and uncovering the eye.

## Saccade

The 3-laser saccade test provides the ability to assess the visual and oculomotor system when presented with rapid goal-directed targets. The saccade test identifies if abnormal eye movements are present when the patient follows the horizontal saccadic stimuli. The stimuli are presented from the goggles. Amplitude, accuracy, velocity and latency of the eye movement are measured.



## Easy analysis

For Gaze tests, the superior SPV algorithm ensures that nystagmus beats are identified even if the nystagmus is weak. Analysis of the horizontal and vertical traces are automatically analyzed and displayed on the same screen. For VOR tests, easily observe head and eye velocity traces and determine the presence or absence of catch-up saccades. And for Skew Deviation, mark when the eye is covered and uncovered with the use of a presentation remote. The average eye position shift is calculated for both horizontal and vertical eye movement. The saccade test displays in 3 graphs with normative data.

## Superior playback

Eye position or velocity trace, head velocity trace, eye video, SPV graph, head position feedback or room video all play back synchronously. The data can be played back in normal speed or slow motion, with the option to play back the entire data collection or start from where the cursor is set. Playback allows you to review all components of the data collection.

\* Optional Torsional Analysis Available

## Start helping more vestibular patients today

Visit [hearing-balance.natus.com/impulse](https://hearing-balance.natus.com/impulse) for more product information, training and webinars.



COMPLIES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE NO. 50, DATED JUNE 24, 2007

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