

ICS® Impulse



A faster way to
balance treatment

natus
formerly otometrics

All the tools you need for efficient balance assessment

ICS Impulse is a complete, customizable balance solution that enables you to quickly screen and triage balance patients. Choose between Video Frenzel, Video Head Impulse with SHIMP and age-based normative data, Positional, Oculomotor and Caloric – or choose all five. Now you can shorten the patient journey, reduce diagnostic time and free up resources to drive more efficiency in your clinic.

Superior pupil detection and fast, simple calibration

Superior pupil detection provides error free data. Calibration can be performed anywhere using the ICS Impulse goggles with built-in lasers, allowing you to assess even more patients. All you need is a small surface from which to project the laser dots, and within seconds you will be ready to test.

Improved workflow

All features of ICS Impulse have been designed to work with your preferred workflow. The innovative Vision Denied Solution enables you to suppress fixation and collect data with vision denied. The external monitor gives you better viewing of the patient's response, especially during positional testing and repositioning maneuvers. The handheld remote control means you can stay close to your patient during data collection.

Customizable workflow

Configure and perform an automatic protocol which takes the guesswork out of patient assessment and increases efficiency.

An automatic protocol performs the tests in the order you choose and eliminates the need for manual test setup.

Extensive reporting and data sharing

Natus, formerly Otometrics designed the ICS Impulse with a customized report function with vector-based graphics to meet documentation requirements. Third-party data-sharing interfaces directly with third-party EMR systems, and ASCII and raw data export are also available.

Superior playback

The data can be played back in normal speed or slow motion. Playback the entire data collection or start from where the cursor is set. Playback allows you to review all components of the data collection.



**3 - 5
YEARS**
THE TYPICAL TIME
IT TAKES A PATIENT
WITH VESTIBULAR
DISORDERS TO BE
DIAGNOSED

Source: Vestibular Disorders Association

ICS Impulse: The result of decades of research

1 High-speed USB camera

The superior camera provides the best available technology for measuring eye movements. The camera provides the ability to record the eye and identify catch-up saccades (overt and covert), nystagmus and skew deviation.

2 Superior sensor

The nine axis motion sensor accurately measures the head movement allowing for direct comparison of head and eye movement. The sensor allows for Head Position Feedback. Head Position Feedback precisely tracks head motion in free space. The superior stability and response time provides instant feedback for correct head positioning during vHIT and positional testing.



3 Light weight

Weighing 60 grams, the goggle ensures no slippage and therefore provides quality data collection without missing any important eye movements. The lightweight design also makes the testing more comfortable for the patient.

4 Built-in calibration lasers

Without additional hardware, the lasers provide stimulus for calibration and oculomotor testing.



ICS Impulse makes it possible to test children and bed-ridden patients.

Greater precision – faster diagnosis



Video Frenzel

At the core of ICS Impulse is the powerful Video Frenzel, giving you easy and affordable access to vestibular assessment and treatment.



vHIT and SHIMP

Gold-standard accuracy – the only test that can assess all six semicircular canals. Validated against gold standard scleral search coils and approved by Drs. Halmagy and Curthoys.



Caloric

Expand your balance assessment toolbox with caloric irrigation. Head Position Feedback, 3D Nystagmus Assessment, external monitor and superior playback give you everything you need to understand lateral semicircular canal function.



Positional

Increase accuracy in assessing and treating patients with BPPV. Head Position Feedback, Head Velocity, 3D Nystagmus Assessment* and real time SPV make it possible.



Oculomotor

A new revolutionary approach to oculomotor testing, Oculomotor provides simple and quick tests that assist in determining if the disorder is central or peripheral.*

*Optional Torsional Analysis Available

ICS Impulse: Bringing diagnostic accuracy and efficiency into balance testing



2008 ▼

More than 20 years of research and development

A visit to Sydney, Australia creates excitement and spawns a collaboration for Natus, formerly Otometrics. The lateral video head impulse test is proven to have comparable results to scleral search coils.



2011 ▼

Gold standard vestibular testing in the clinic

ICS Impulse is launched proving reliable lateral vHIT data is possible and introducing the new gold standard.



2012 ▼

Assess all six semicircular canals

ICS Impulse is further developed to include the anterior and posterior canals (LARP/RALP), Operator Feedback, and Synchronized Room Video for the video record/playback mode.



2014 ▼

USB Impulse goggle

ICS Impulse continues to evolve with a USB goggle along with software enhancements: Head Position Feedback for LARP/RALP, Hex plot, and high-resolution vector based graphics.



2015 ▼

Unprecedented vestibular choice

Introduction of Monocular Video Frenzel, Positional and Oculomotor modules. Taking Head Position Feedback to the next level when assessing and treating BPPV. Expanding ICS Impulse with the ability to better determine if the disorder is central or peripheral. Always at the forefront with vHIT by implementing age normative data.



2016 ▼

Enhancing diagnostic accuracy

Gaze Position and Gaze Graph, Suppression Head Impulse Paradigm (SHIMP), Saccade test, Torsional Analysis for SPV tests provide the information needed to accurately diagnose the patient.



2019 ▼

A complete balance triage solution

ICS Impulse becomes a complete balance assessment solution with addition of the Caloric module. It has the tests and tools you need to quickly screen and triage balance patients.

Start helping more vestibular patients today



Visit hearing-balance.natus.com/impulse for more product information, training and webinars.

Healthcare solutions with one thing in mind. You.

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