

NysStar II

Video Nystagmography



- ✓ INNOVATIVE TECHNOLOGY FOR **PRECISE FUNCTIONAL ANALYSIS**
VARIOUS FUNCTION OF OCULOMETRY AND VESTIBULAR SYSTEM
- ✓ **FLEXIBLY ADAPTABLE AND MODULARLY EXPANDABLE –**
PERFECTLY COMPATIBLE WITH DIFRA'S VIDEONYSTAGMOGRAPHY
SYSTEMS (VNG CALORIC TESTING, VHIT, OPTOKINETIC
STIMULATION, AS WELL AS ROTATIONAL AND PENDULUM TESTS)

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VideoNystagmography



The videonystagmography performed by a camera and infrared light measures and records the eye movement, which is analyzed by the software. NYSSTAR II is the essential tool to study the various functions of balance, namely the oculomotor (ocular saccades, pursuit, optokinetic nystagmus) and the study of the vestibular system (spontaneous and positional nystagmi, rotary tests, caloric tests)



NYSSTAR II - COMFORT MEETS PRECISION

The Nysstar II system impresses with an exceptionally lightweight, offering high wearing comfort – ideal for a relaxed examination experience. The weight-optimised, two USB high-speed camera precisely captures the patient's left and right eyes movements and analyses them in real time.

Integrated sensors simultaneously measure head velocity and position directly at the camera unit offering 3D head position in positional tests.

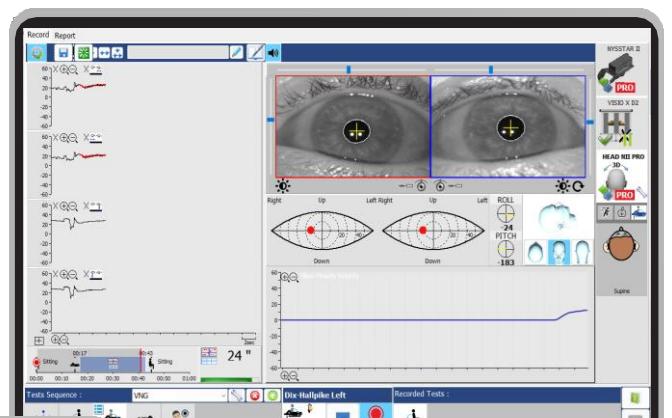
FLEXIBLE AND FUTURE-PROOF - THE MODULAR NYSSTAR II SYSTEM

Following software modules selected, Nysstar II can be used for oculography tests (saccadometry, pursuit, opk, ...), balance tests (Spontaneous, Gaze, positional, Calorics Tests, AHR, Rotational, ...) – all with a single device.

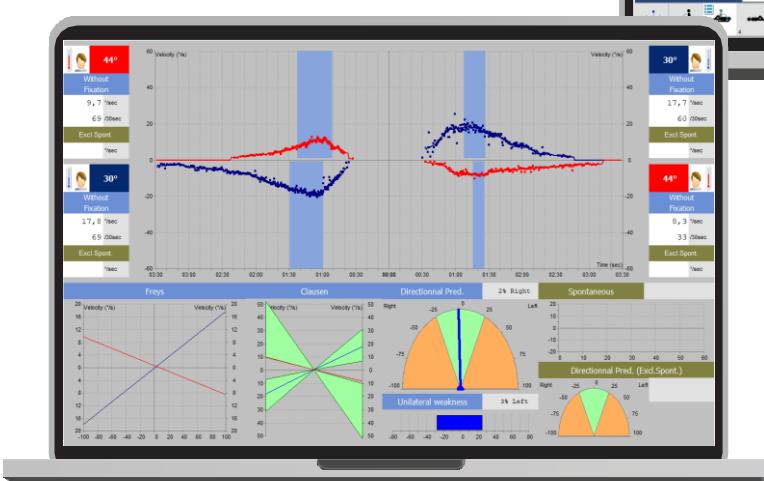
All examination results are conveniently captured using user-friendly software and stored centrally in a database – clearly organised, secure, and accessible at any time.

Associate with Disoft II software, Nysstar II system represents systems from Difra.

It enables precise recording and direct evaluation of eye movements following targeted stimulation of the vestibular organ – in real time and with maximum accuracy.



Thanks to a wide range of optional stimulation modules, the system is ideal for use in private practices as well as for the demands of everyday clinical settings.



CUTTING-EDGE INFRARED TECHNOLOGY FOR CRYSTAL-CLEAR RESULTS

The new USB infrared camera delivers an impressive resolution of ensuring excellent video quality during recording.

In combination with the innovative Disoft II software, the system enables precise tracking and analysis of both horizontal, vertical, torsional eye movements and pupil diameter.

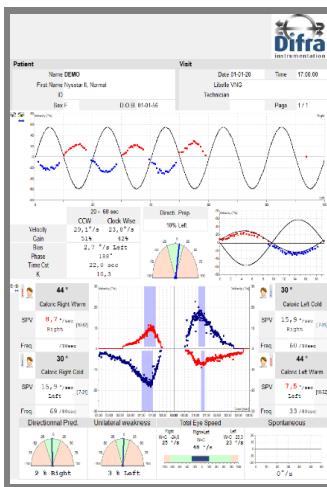
An integrated control window allows live monitoring of the patient's eye – without the need for an additional monitor.

When used with a laptop PC, the system can also be deployed flexibly and portably – ideal for both practice and clinical environments.

INDIVIDUALLY CUSTOMISABLE ANALYSIS - FLEXIBLE AND USER-FRIENDLY

Both the evaluation criteria and preferred display formats can be customised to suit the examiner's specific requirements.

The software reliably performs automatic nystagmus analysis, which can be reviewed and adjusted manually at any time if needed.



FOCUS ON INNOVATION AND TECHNOLOGY

High-end solutions for modern vestibular diagnostics.

In addition to proven systems for caloric stimulation, the manufacturer also offers innovative rotary and swing chairs as well as highly precise visual stimulators. These high-tech components optimally complement the diagnostic portfolio and enable precise, standardised examinations at the cutting edge of technology.

A key advantage: **all auxiliary devices can be conveniently and centrally controlled via a single, user-friendly software platform** – ensuring maximum efficiency and intuitive operation throughout the diagnostic workflow.

Also optionally available: the *IDEAS III ENG* system for recording and analysing eye movements using electronystagmography further expands diagnostic capabilities and is ideally suited for specific clinical questions in neurology.



TECHNICAL SPECIFICATIONS

(As of: 12/06/2025)

PC Requirements: (min. specifications)	1 x USB 3.1 Gen 1 or higher Windows PC or notebook meeting the system specifications
	USB Type-A SuperSpeed, transfer speed of 10 Gbit/s
Operating System:	Windows 10 Pro Windows 11 Pro
Equipment:	Comfortable mask with two high-resolution USB 3.0 infrared video camera 4.5 m USB cable camera pupil centering by Software Database with HL7/GDT master data import
Camera weight:	290 g (without cable)
Video resolution:	Image Sensor 1600 x 1300 pixels
	Preview 1600 x 1300 pixels at 60 Hz
	VNG-Mode 640 x 480 pixels at 180 Hz
	Oculography-Mode 320 x 240 pixels at 250 Hz
Software Options:	<p>VNG Basis Spontaneous nystagmus, Positional and positioning nystagmus, Caloric testing</p> <p>VNG Oculography Smooth pursuit, Random saccades, Optokinetics, Pro/Anti Saccades.</p> <p>Rotation Testing Rotational, SHA, pendulum & trapezoid tests</p> <p>Ocular Counter Roll Testing</p> <p>Active Head Rot. Testing</p>
Recording Capabilities:	Binocular Horizontal, vertical, and torsional (3D) eye movement and pupil diameter

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