

VIDEONYSTAGMOGRAPHY

The videonystagmography performed by a camera and infra red 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 oculomotricity (ocular saccades, pursuit, optokinetic nystagmus) and the study of the vestibular system (spontaneous and positional nystagmi, rotary tests, caloric tests). NYSSTAR II is a nystagmography system and is able to record simultaneously both eyes movements, as well horizontal, as vertical. The calibration carried out by camera is stable and should only be made once at the beginning of the examination. The recording by camera removes all artefacts due to the changes of polarity between the electrodes and the skin like with the interferences of electric and electrophysiological origin.

DISOFT II

NYSSTAR II is accompanied by powerful data-processing software, which simplifies the task of the doctor.

According to the tests carried out, the software analyzes and measures various parameters:

- number of jolts or ocular movements
- amplitude, frequency
- slow phase speed of nystagmus
- latency, phase, distortion
- gain
- symmetry or asymmetry of the responses
- paresis or labyrinthic hypoexcitability, directional preponderance of nystagmus
- comparison of the answers opened eyes, closed eyes and measure of ocular fixation indices

THE NYSTAR II SYSTEM

NYSSTAR II is based on two USB cameras. Connected to a computer, they permit to localize the center of each pupil in real time. NYSSTAR II is provided in its case with its accessories: mask with two cameras, cap and USB interface.

TECHNICAL SPECIFICATION

- Number of channels: up to 4 (horizontal and/or vertical, on each eye)
- Resolution: 640 x 480 pixels on each eye
- Sampling rate: 50 Hz - 200 Hz (option)
- Connection: USB 2.0
- 100-240V - 50/60Hz 0.5A
- Requires a computer following Difra's specification available on request

NYSSTAR II meets EN 60601-1 Standard and Directive 93/42/EEC.

NYSSTAR II



Ref.	Description
DI 140501	NYSTAR II VNG Free field mask with 2 USB 2.0 cameras
DI 14050X-BASIC	VNG Tests module