

ELECTRONYSTAGMOGRAPHY

The electronystagmography is based on the fact that there exists around the eye an electric field. The modifications induced in this electric field by the eye movements are recorded by electrodes, filtered, amplified and analysed.

IDEAS III is the essential tool to study the various functions of balance, namely the study of the oculomotricity (ocular saccades, pursuit, optokinetic nystagmus) and the study of the vestibular system (spontaneous and positional nystagmi, rotatory tests, caloric tests).

IDEAS III is complementary with videonystagmography in case of the use of corrector optical is necessary. Moreover, the signal is not disturbed by the make-up on the eyelids or the nervous twitches.

DISOFT SOFTWARE

IDEAS III is accompanied by a powerful data-processing software which simplifies the task of the doctor.

According to the performed tests, the software analyses and measures various parameters:

- number of jolts or ocular movements
- amplitude, frequency
- low phase velocity of the nystagmus
- latency, phase, distortion
- gain
- symmetry or asymmetry of the response
- labyrinthine paresis or hypoexcitabilities, directional preponderance of nystagmus
- compare the answers opened eyes, closed eyes and measure the indices of ocular fixation

TECHNICAL SPECIFICATION

- Supply: DC 4,8V by rechargeable battery
- Number of channels: 2 or 4 equivalent to 1 or 2 in VNG
- Modes: AC and DC
- Input offset range: 100 mV
- Amplification gain: from 100 to 250000
- Low pass filter: 10 to 100 Hz, Bessel 8th order
- High pass filter (AC mode): 1 sec.
- Sampling frequency: 200 Hz
- Accuracy: 0,05% (12 bits)
- Isolation: 3 kV DC
- Connection: NAC
- Weight: 500 grams
- Size: 230 x 95 x 55 mm (W x D x H)

IDEAS III meets the actual IEC-601-1 standards Class I type B.

IDEAS III



Ref.	Description
DI 141001	IDEAS III 2-channels electronystagmograph, with software, without computer, without printer (Recupel included)
RECUEPEL 0/5	Recupel
DI 141001-4C	Option 4-channels for IDEAS III
DI 141001-VNG	Option IDEAS III 2-channels electronystagmograph for VNG
DI 000001	NAC Network board to connect all Difra devices to the computer

