



## HORTMANN ENG Module

### Electronystagmography with CNG Analyser Software

Electronystagmography (ENG) measures eye movements using electrical signals from the eyes recorded by means of electrodes. ENG is the clinical standard for testing the vestibular system and complements VNG by adding the capability of recording nystagmus responses in patients unable to keep their eyes open.

Our HORTMANN ENG module is supplied together with the easy-to-use CNG Analyser Software and a two or four-channel preamplifier for connecting electrodes. This compact solution for vestibular testing requires a Medical PC; comprehensive software and hardware options enable it to be used in medical practices, clinics and for scientific research. In the basic version, the spontaneous, caloric and user-defined tests are available. With the addition of the optional Video Target System, it is possible to perform the optokinetic, smooth pursuit and saccadic tests. Our VNG and PDS 12 Rotary Reclining Chair systems complete the vestibular test battery for investigating the source of dizziness.



## HORTMANN ENG Module

### Electronystagmography with CNG Analyser Software

#### Technical specifications

##### Pre-amplifier and A/D converter

Number of channels	2 or 4
Time constants	1, 2 or 4 sec.
Upper limit frequencies	7.5; 15 and 30 Hz
Amplification	80 dB (pre-amplifier)
Common-mode rejection	120 dB
Resolution, A/D converter	12 bit
Scanning rate, A/D converter	50/sec. per channel
Power supply	AC 50-60 Hz, 115/230 V, 5 W
Dimensions	321 x 300 x 121 mm (W x D x H) 11.8" x 12.6" x 4.8"
Weight	4.3 kg, 9.5 lbs. (excl. accessories)
Protection class	Class I, unit type BF, complies with EN 60601-1

##### CNG Analyser software

CNG Analyser software 2	Tests: spontaneous, caloric, user-defined tests (e.g. position and positioning)
CNG Analyser software 3	Tests: same as CNG Analyser 2, with the following additions: optokinetic, smooth pursuit, saccadic and rotational chair tests
CNG Analyser software 4	Tests: same as CNG Analyser 3, but with 4-channel ENG module

**Details about the Video Target System and the PDS 12 Rotary Reclining Chair System can be found in our HORTMANN Vestilab brochure.**

*For further information, please contact:*

**GNI Otometrics**