



PORTABLE ENGPLUS SYSTEM

TWO CHANNEL ELECTRONYSTAGMOGRAPHY UNIT



VERTIGO | BALANCE | DISEQUILIBRIUM | DIZZINESS

TECHNICAL SPECIFICATIONS

STARKEY'S PORTABLE ENGPLUS SYSTEM

TWO CHANNEL ELECTRONYSTAGMOGRAPHY UNIT



ENG:

(electronystagmography)

A method of monitoring eye movement for the clinical study of dizziness and balance disturbance.

Available ENG Tests:

- Calibration
- Spontaneous Nystagmus Test
- Gaze Tests
- Pursuit Testing
- Optokinetic Test
- Positional Tests
- Dix-Hallpike Test
- Caloric Test

Optional:

- Vestibular Autorotational Test



Total weight is less than 20 lbs., not including computer or caloric irrigator.



SPECIFICATIONS

Input: Separate preamplifiers for horizontal and vertical EOG eye channels

Coupling: DC response on eye channels

Sampling Rate: 500 Hz each channel

Common mode rejection at the preamplifier: < 106 dB

Preset Software Acquisition

CALIBRATION

Stimulus: Green Laser Tracker (self-calibrating)

Parameters: Horizontal: ± 30 degrees, Vertical: ± 30 degrees

Length of time: 20 seconds

Target distance: Variable

GAZE

Stimulus: Green Laser Tracker

Positions: Left, right, center, up and down

Parameters: ± 30 degrees

TRACKING

Stimulus: Green Laser Tracker

Parameters: Horizontal: 20 degrees, Vertical: 20 degrees

Frequencies: 0.2 Hz, 0.4 Hz

OPTOKINETIC

Stimulus: Projector

Parameters: Left, right, up and down

Speed: 20 degrees to 60 degrees per second

POSITIONAL

Parameters: Sitting; Supine 0 degrees; Supine 30 degrees; Right lateral; Left lateral; User defined

DIX-HALLPIKE

Parameters: Head hanging right; Head hanging left

CALORICS

Stimulus: Air or water (optional)

Parameters: Right cool; Left cool; Right warm; Left warm; Right Ice; Left Ice

Minimum computer requirements: IBM™ compatible computer with an available serial port (com 1) or USB, 64 MB RAM, 500 MHz, Windows™ XP-Pro or VISTA operating systems, 1 GB hard drive

Optional: Vestibular Autorotation Test (VAT)