GSI NOVUS™

AABR/OAE SCREENER

Technical Specifications

The Novus is an active, diagnostic medical product. The device is classified as a class IIa device according to the EU medical directive 93/42/EEC and a class II device according to the US FDA.

General Specifications

Environmental Conditions:

- + 15 °C... + 35 °C / + 59 °F... + 95 °F (operation)
- - 20 °C... + 50 °C / - 4 °F... + 122 °F (transport and storage)
- Maximum humidity 90 % (operation, non-condensing)
- Maximum humidity 95 % (storage, non-condensing)

Weight: 265 grams (with battery)
Dimensions: 158 mm x 83 mm x19mm
Display: 95 mm x 56 mm, color, 272 x 480 resolution
User Interface: Resistive touch screen
User Feedback: Integrated speaker
Language Settings: English, default. (15 options)
Memory: 1GB
Data Interfaces: USB, Bluetooth®
Boot Up Time: <5 sec
Battery: Li-ion battery 44794; Capacity: 3.7V/3850 mAh
Warm Up Time: No warm-up time necessary after boot

Instrument Specifications – AABR

Test Signals: CE-Chirp®
Stimulus Rate: 88/sec left ear, 92.5/sec right ear
Stimulus Level: 35 dB nHL (default protocol)
Data Collection: 22 kHz sample rate, 24 bit

Preamplifier

EEG Filter: 0.5 Hz – 5.0 kHz
Gain: 72 dB
CMRR: >100 dB at 100Hz
Sample Rate: 22.05 kHz

Instrument Specification – OAE

DPOAE

Stimulus Frequencies: 2000, 3000, 4000, 5000 Hz
Stimulus Frequency Range: 1500-6000 Hz
Nominal Frequency, F2/F1 Ratio: F2, 1.22
Level L1/L2: 65/55 dB SPL

TEOAE

Stimulus Type: Non-Linear Click (according to IEC 60645-3)
Stimulus Frequency Range: 1000 – 4000 Hz
Stimulus Level: 83 dB peSPL, peak to peak calibrated, AGC controlled

Cradle

ELECTRICAL ISOLATION

DC Power In: 5V/1.6A
Power Supply: AC 100 – 240 V, ~ 50/60 Hz, 400mA

Transducers

Radioear IP30 Insert Earphones
Probe for OAE and AABR testing

Printer (optional)

Type: Thermal
Connection: Bluetooth®
Battery: Lithium Ion, DC 7.4V, 1500 mAh
Charger: AC 100-250V, ~ 50/60 Hz, 1.0 A
Weight: 360 g / 12.7 oz
Paper: Thermal paper or labels

Standards Compliance

Standards:

- IEC 60601-1, Class II, Type BF
- IEC 60601-1-2
- IEC 60601-2-40
- ISO 389-2
- ISO 389-6
- IEC 60645-3
- IEC 60645-6 (2009), Type 2
- IEC 60645-7, Type 2

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