

GSI 61TM Clinical Audiometer

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

W x D x H: 50 cm x 39 cm x 32 cm (LCD raised)
Height with LCD lowered -- 15 cm
Weight: 8.7 Kg
Shipping Weight: 13.6 Kg
Power Consumption: 90 Watts

PURE TONE – CHANNELS 1 AND 2

Frequency Range:

Air Conduction: 125Hz to 12,000 Hz
High Frequency:* 8,000 Hz to 20,000 Hz
Bone Conduction: 250 Hz to 8,000 Hz
Sound Field:* 250 Hz to 12,000 Hz
(8,000 Hz to 16,000 Hz with High Frequency option enabled along with basic speakers)
Paired Insert:* 125 Hz to 8,000Hz
Single Insert:* 250 Hz to 6,000 Hz

Accuracy:

≤ 2% (earphones and paired insert phones*)
≤ 5% (bone vibrator)

Intensity Range: **

Air Conduction: -10 dB HL to 120 dB HL
High Frequency:* -20 dB HL to 100 dB HL
(with Sennheiser HDA 200 Phones)
Bone Conduction
Mastoid: -10 dB HL to 80 dB HL
Forehead: -20 dB HL to 70 dB HL
Sound Field (basic speakers):* -10 dB HL to 90 dB HL
Paired Inserts:* -10 dB HL to 110 dB HL
Single Inserts:* -10 dB HL to 100 dB HL

Masking Intensity Range: (Calibrated in effective masking)

Narrow Band Noise: Maximum dB HL is 15 dB below tone
White Noise: Maximum dB HL is 30 dB below tone

SPEECH – CHANNELS 1 AND 2

Microphone: For live voice testing and communications.
External A and External B: Accepts recorded speech material from external stereo tape cassette or CD player

Intensity Range:

Air Conduction: -10 dB HL to 105 dB HL
Bone Conduction
Mastoid: -10 dB HL to 65 dB HL
Forehead: -10 dB HL to 55 dB HL
Sound Field (basic speakers):* -10 dB HL to 90 dB HL
Paired Inserts:* -10 dB HL to 95 dB HL
Single Inserts:* -10 dB HL to 95 dB HL

Masking Intensity Range:

Speech Noise:

Air Conduction (TDH 50P and Insert Phones*)
and Bone Conduction: Maximum dB HL are the same as the speech type signals.
Sound Field (basic speakers): -10 dB HL to 80 dB HL
White Noise: Equal to Speech Noise

* Optional accessories ** NOTE: The maximum HL values are applicable to the middle frequencies only.

SIGNAL FORMAT

Steady: Tone Continuously present.
Pulsed: Tone pulsed 200 msec ON, 200 msec OFF.
FM: Tone modulated +5% of center frequency at a rate of 5 Hz.

SPECIAL TEST CAPABILITIES

ALT: Tone alternating between Channel 1 and Channel 2. Channel 1 is 400 msec ON, 400 msec OFF followed by Channel 2, 400 msec ON, 400 msec OFF.
SISI: An intensity increment is added to a tone in the selected channel for 200 msec, every 5 seconds. The HL increments are available in 1,2 or 5 dB steps.
High Frequency: Pure tone testing in the frequency range of 8,000 Hz to 20,000 Hz using High Frequency phones. The frequencies available for testing are: 8,000 Hz, 9,000 Hz, 10,000 Hz, 11,200 Hz, 12,500 Hz, 14,000 Hz, 16,000 Hz, 18,000 Hz and 20,000 Hz (Optional)

COMMUNICATIONS AND MONITORING

Talk Forward: Permits the tester to speak through the test microphone into the selected transducer at the intensity level set by the front panel controls.

Talk Back: Allows the tester to listen to comments from the subject in the testing booth.

Monitor: The monitor headset or monitor speaker can be used by the tester to listen to Channel 1, Channel 2 and/or Talk Back signals.

ACCESSORIES SUPPLIED

Test Headset (Matched set TDH-50P)	8000-0063
Bone Vibrator (B71)	8000-0130
Subject Response Hand switch	7874-0156
Test Microphone/Monitor Headset with coiled cord	1761-9623
Talk Back Microphone	8000-0039
Patch Cords, 6 ft. Grey (4/each)	4204-0505
Power Cords (Country and voltage specific)	
Instruction Manual	1761-0100

OPTIONAL ACCESSORIES

CD Player	1761-9621
Stereo Tape Cassette	1761-9622
Speakers, Basic (90 dB) with cables	1761-9630
Speakers, High Performance (96 dB) with cables	1761-9635
Booster Amplifier with cables, for use with the High Performance Speakers only	1761-9637-xx
Sound Field System, High Performance (Incl. High Performance Speakers (102 dB) and Booster Amp)	1761-9639-xx
Paired Insert Phones (EARTONE TM 3A)	1700-9606
Single Insert Phone (470 Ω)	1700-9609
High Frequency Headphones w/ booth cables	1761-9602
High Frequency Cables to GSI 61	1761-9605
Remote RS 232/Printer Interface	1761-9680
Printer, Color (120 V only)	1761-9610
Service Manual	1761-0110
Audio Tymp Module for Noah 3.1	1002-9600

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GRASON-STADLER

NICOLET BIOMEDICAL

NICOLET VASCULAR

TOENNIES

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GSI 61™

LANGUAGE KITS

English	1761-9650E
French	1761-9650F
German	1761-9650G
Italian	1761-9650I
Spanish	1761-9650S

QUALITY SYSTEM

Manufactured, designed, developed and marketed by VIASYS Healthcare Inc. NeuroCare Group under ISO 13485, ISO 9001 certified quality system.

COMPLIANCE / REGULATORY STANDARDS

Designed, tested and manufactured to meet the following domestic (USA), Canadian, European and International Standards:

ANSI S3.6, ANSI S3.43, IEC 645-1, IEC 645-2, ISO 389

UL 2601-1 American Standards for Medical Electrical Equipment.

IEC 601-1, EN 60601-1 International Standards for Medical Electrical Equipment.

CSA C22.2 # 601-1-M90

Medical Device Directive (MDD) (ID No.: 0344) to comply with "EC Directive" 93/42/EEC

NOTE: All specifications are subject to change without notice.