

## GSI 61 Two Channel Clinical Audiometer

### 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: 125 Hz 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 8,000 Hz  
Single Insert: \* 250 Hz to 6,000 Hz

#### Accuracy

< 2% (earphones and paired inserts 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 H D A 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 110 dB HL  
Single Inserts:\* -10 dB HL to 100 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 centre frequency at a rate of 5Hz**

### 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 are 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, 6ft 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	1761-9639-xx
(incl. High performance speakers (102 dB) and booster amp)	
Paired Insert Phones (EARtone 3A)	1700-9606
Single Insert Phones (470 Ω)	1700-9609
High Frequency Headphones w/booth cable	1761-9602
High Frequency Cables to GSI 61	1761-9605
Remote RS-232/Printer Interface	1761-9680
Printer, Colour (120 V only)	1761-9610
Service Manual	1761-0110
Audio Tymp Module fro Noah 3.1	1002-9600

### 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 60645-1, ISO 389, UL 2601-1** American standards for Medical Electrical Equipment. **IEC 601-1, BS 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" 93/41/EEC