

ACOUSTIC ANALYZER 1200



TWO CHANNEL DIAGNOSTIC AUDIOMETER

The NOAH certified AA 1200 audiometer offers the flexibility and portability for a variety of diagnostic situations, including pure tone air, bone, masking and speech testing capabilities.



Feature Summary:

Pure Tone Test Frequencies of 125-8000 Hz

New Hearing Loss Simulator feature allows a person with normal hearing to experience the effects of the patient's impaired hearing.

Masking Noise Selections include narrow band, white noise and speech noise.

Speech Testing can be performed with either the two extendable microphones or the built-in CD player.

TDH Headphones and/or Insert Earphones can be used without paper correction factors.

Talk-Back and Talk-Forward features also make the AA 1200 suitable for two room testing.

Standard Accessories include TDH-39 headphones and B-71 bone oscillator assembly, free field speakers, built-in CD player and a patient response switch.

Internal Power Supply.

External Audio Input.

Audiogram Printing Capability.

Options:

ER 3A Insert earphones available.

Custom Monitor/Talk-Forward headset available.

External Power Amplified Sound Field System available for extended free field testing.

NOAH Driver and Serial Cable/USB available.

TECHNICAL SPECIFICATIONS



ACOUSTIC ANALYZER 1200

TWO CHANNEL DIAGNOSTIC AUDIOMETER

Twin Microphones

Built-In CD Player

Channel One Control

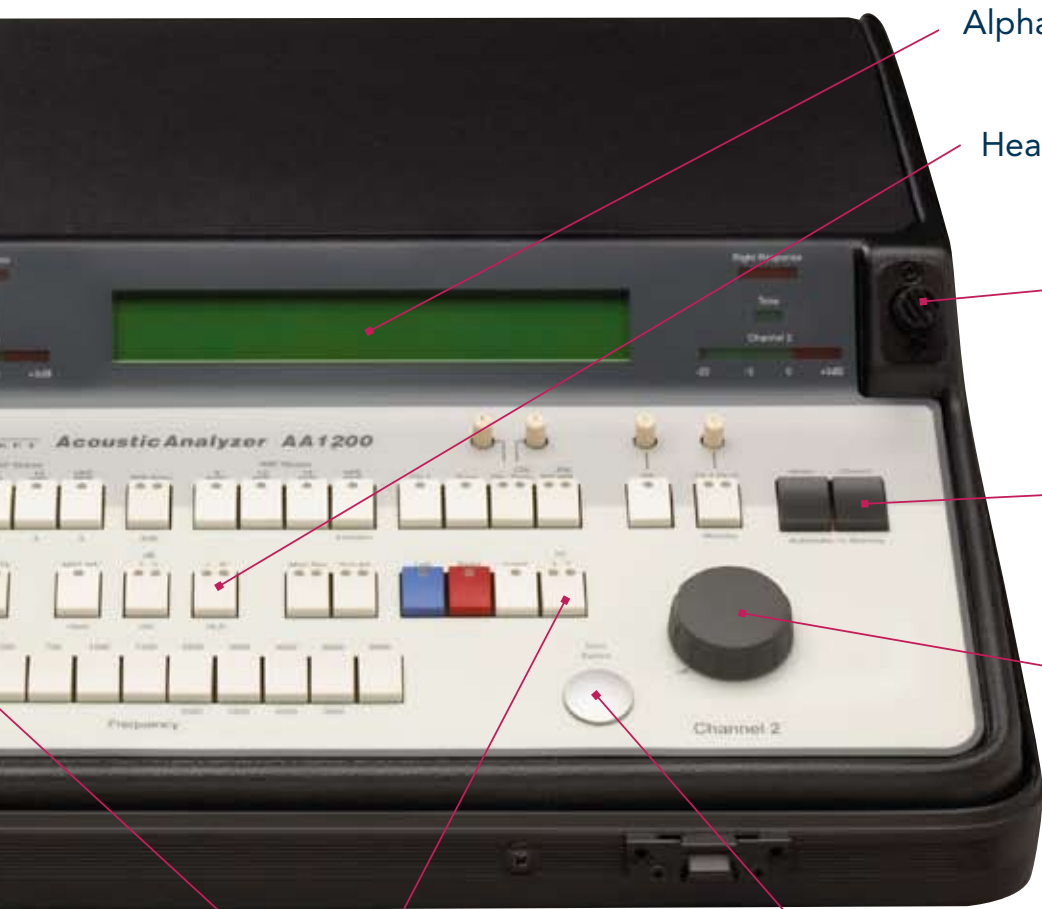
(both channels operate independently with gain and filter settings)

Channel One Tone Selector

TDH-39
Headphones
(standard)

ER 3A Insert
Earphones
(optional)





Alpha Numeric Display Panel

Hearing Loss Simulator

Twin Microphones

Automatic % Scoring Function Key

Channel Two Control
(both channels operate independently with gain and filter settings)

Channel Two Tone Selector

Free Field Testing



B-71
Bone
Oscillator
Assembly
(standard)



Talk Back
Microphone
(standard)



Patient Signal
(standard)

SPECIFICATION AND TESTING DATA

Safety Standard: EN 60601-1

Audiometer Standard:

Tone: EN 60645-1/ANSI S3.6 Type 1

Speech: EN 60645-2/ANSI S3.6 Type A or A-E

Calibration: ANSI S3.6 2004

Extended Range Function: If not selected, the AC output will be limited to 20 dB below the maximum output.

Input: Tone, warble tone $\pm 5\%$, 5 Hz (true sine wave frequency modulation).

Masking Stimulus: Automatic selection of narrow band noise or white noise for tone presentation and speech noise for speech presentation.

Outputs: Left, Right, Bone L-R, Insert Phones, Insert Masking, FF1 and FF2.

Transducers: Standard TDH-39 Headset, B-71 OSC and optional Ear-Tone 3A Insert Earphones.

Communication:

Talk Forward: 0-110 dB SPL continuously adjustable on operation panel.

Talk Back: Microphone input and level adjustment on operation panel.

Tone Presentation: Manual or reverse, and single pulse. Multiple pulses 250-500 Milliseconds, On/Off.

Auto Threshold: Patient controlled Hughson Westlake procedure according to ISO 8253-1.

FREQUENCIES AND MAXIMUM HEARING LEVELS

Hz	AC dB HL TDH 39	AC dB HL EAR Tone 3A	BC dB HL B71	NB/SN dB HL
125	90	90	NA	80
200	100	95	NA	90
250	110	105	45	100
500	120	110	65	110
750	120	115	70	110
1000	120	120	70	110
1500	120	120	70	110
2000	120	120	75	110
2500	120	120	75	110
3000	120	120	80	110
3500	120	115	80	110
4000	120	115	80	110
4500	120	105	60	110
5000	120	105	55	110
6000	120	100	55	110
8000	110	95	50	100

FF
dB SPL
80 dB to
100 dB SPL
depending
on FF
system

Synchronous Masking: Locks channel two attenuator to channel one attenuator.

Automatic Scoring Store Function: Internal memory for AC/LR and BC/LR and full speech curve.

SISI Test: Auto score calculation (5 dB included for familiarization).

Stenger Test: Binaural pure tone stimulation.

Stenger Speech Test: Binaural speech test with monophonic signal.

Langenbeck Test: Tone in noise.

Two Channel Master Hearing Aid: Both channels operate independently with gain and filter settings (6, 12, 18, HFE).

Display: Alpha-Numerical display.

Patient Signal: Reed switch push button.

Interface and Printing: Bi-directional RS232C, output for laser printer with HP GL/2 language. Optional output for ink jet printer, and optional desk jet printer using HP PCL L3.

Attenuator Controls: Rotary switches.

Power Supply: Internal 100-240 V.



The AA 1200 (with optional printer module) offers easy printing and is compatible with a wide variety of printers.



A rugged hard plastic carrying case allows for easy portability and increased storage.

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