

Affinity AC440 Module

- Efficient Audiometry

Clinical audiometer

The Affinity becomes a full-featured PC-based clinical audiometer when combined with the AC440 audiometry software.

The AC440 module includes all the traditional clinical testing capabilities such as air, bone and speech. But when combined with the flexibility of a PC, you get the unprecedented flexibility to use the standard test protocols or customize your own – choose which tests you run and in what order, set your levels, make short-cut keys and save your settings as your own personal procedure. In fact, each user can have a unique procedure. It's like having a personalized audiometer for each test administrator, but the expense of just one unit.

Full integration

The AC440 is interconnected to hearing aid fitting tasks. All client data can be saved directly to NOAH or Interacoustics' own database during the audiometric evaluation. You no longer have to print the data and transcribe it into another database or another machine to start your next procedure. Simply gain immediate access to the data when you begin the

hearing aid fitting and finish by creating a customized report at the end of the session.

While you can operate all the audiometric testing from the PC itself you can also choose instead to perform the tests from a dedicated audiometry keyboard. Since the audiometry keyboard is part of the Affinity system your data will still interact with the software on your PC. The benefit is that you can enjoy the familiarity of working with traditional audiometer keys rather than a PC keyboard.

Other benefits of the AC440 module:

- Easy to generate professional, tailored reports
- On screen comparisons to previous audiograms
- Advanced sound field applications
- Full client communication connections
- Report page for session notes
- Separate modules available for speech from hard-drive, high frequency audiometry and MLD test

The functionality of the Affinity will make it an integral part of your daily routine, while the all-in-one, elegant design makes it a welcome addition to your office.



A dedicated keyboard is available.

Leading diagnostic solutions



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General Technical Specifications

Standards:

Safety: EN 60601-1, Class I, Type B,
UL 2601-1, CAN/CSA-C22.2
No. 601.1-M90, EN 60601-1-1.
EMC: EN 60601-1-2.

Medical CE-mark:

The CE-mark indicates that Interacoustics A/S meets the requirements of the Annex II of the Medical Device Directive 93/42/EEC. Approval of the quality system is made by TÜV – identification no. 0123.

Computer Communication:

Built-in USB1.1 computer interface.
Optical isolation available.

PC Minimum Requirements:

Processor/clock speed: 800 MHz Pentium 3 or better. System RAM: Minimum 128 MB
Screen Resolution: Minimum 800 x 600
Harddisk space: Minimum 500 MB free disk space. Operating System: Windows 98 SE/2000/ XP/ME.

Construction: Painted metal cabinet bottom and moulded plastic top.

Weight: 5.5 kg / 12.1 lbs.

Dimensions: LxWxH: 42x38x15 cm/
16.5x15x5.5 inches.



Technical Specifications - Affinity AC440 Audiometry Module

Audiometer Standards:

Tone: EN60645-1/ANSI S3.6 Type 1
Speech: EN60645-2/ANSI S3.6 Type A or A-E.

Calibration:

AC: ISO389-1, ISO389-2.
BC: ISO389-3.

Maximum Hearing Levels:

	AC dBHL	AC dBHL	BC dBHL	NB dBHL	Ext.FF dB SPL
Hz	TDH39	EAR- Tone5A	B71	TDH39	
125	90	95		75	80
250	110	100	45	95	95
500	120	110	65	110	100
750	120	120	70	110	105
1000	120	120	70	110	105
1500	120	120	70	110	105
2000	120	120	75	110	105
3000	120	120	80	110	110
4000	120	120	80	110	110
6000	120	105	50	110	105
8000	110	100	50	100	85

Extended Range Function:

If not activated, the AC output will be limited to 20 dB below maximum output.

Input:

Tone, Warble Tone, CD1, CD2, Mic1,
Mic2, wave files.

Masking Stimulus:

Narrow Band Noise or White Noise or
Speech Noise.

Outputs:

AC Left + Right, BC Left + Right, Insert
Phone Left + Right, Insert Masking, FF1
and FF2. (Line/power 2x10W/4Ω).

Transducers:

TDH39 Audiometric headset.
EAR-Tone 5A Insert phones (optional).
HDA200 Audiometric headset (optional).
HDA280 Audiometric headset (optional).
KOSS R80 High Freq. headset (optional).
B71 Bone conductor.

Tone Presentation:

Manual or Reverse. Single or multiple
pulses.

Patient Signal:

One or two (optional) hand held push
button.

Patient Communication:

Talk Forward and Talk Back.

Monitor:

Channel 1 and Channel 2.

Storing Capability:

Tone audiogram: dB HL, MCL, UCL,
binaural, aided.
Speech Audiogram: SDS1, SDS2, SDS3,
MCL, UCL, aided, unaided, binaural.

Compatible Software:

NOAH 3, IaBaseII.

Included Parts:

Affinity AC440 CD
TDH39 Audiometric Headset
B71 Bone Conductor
APS2 Patient Response Button
Standard USB Cable
Power Cable 120 or 230V
Operation and Multilingual CE Manual

Optional Parts:

Audiometer Keyboard with live voice mic.
EarTone5A Audiometric Headset
ACC60 Affinity carrying Case
CIR22 Insert Masking Earphones
Audiocup Enclosures
Peltor Noise Excluding Headset
HDA200 Audiometric Headset
HDA280 Audiometric Headset
KOSS R80 high frequency headset

MTH400 Headset
EMS400 Talkback Microphone
AP12 Power Amplifier 2x12 Watt
AP70 Power Amplifier 2x70 Watt
ALS7 Loudspeaker
AFC8 Sound Cabin Installation Panel
UCO15 Optical USB Extension Cable
Value-add modules: SFH440, MLD440,
HF440, HLS440, MHA440, MF440

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