

AC40

Clinical Audiometer



The true clinical hybrid audiometer
– Stand alone & PC-based audiometry in one box



Interacoustics®

leading diagnostic solutions

AC40

Clinical Audiometer

A true hybrid audiometer

Full two channel audiometer

The AC40 clinical audiometer includes all the advanced features and functions needed by a modern clinic. It is designed to make the clinician's work day easier and more efficient.

A true hybrid audiometer

As the AC40 is a self-contained standalone audiometer allowing for complete independent use as well as full PC-based audiometry with full Noah and EMR/HIS integration, it is a true hybrid audiometer.

The AC40 provides the best of both worlds for those who like the familiar, classic feel of an audiometer keyboard while simultaneously engaging the power of the PC. With the AC40, you can choose to operate through the familiar user interface of the audiometer keyboard, PC keyboard or mouse.

- Operate the AC40 as a stand alone audiometer (no computer)
- Operate the AC40 via computer, and
- Operate the computer via the AC40

As a True Hybrid AC40 offers full control and the flexibility to work as you prefer; even if you clinic has multiple clinicians with individual preferences and needs.

A full counseling solution

The AC40 gives you counseling tools to help engage and connect with your client. Whether you use your main test window or attach an external monitor directly to the AC40, you can utilise the variety of counseling tools available in the Diagnostic Suite 2.0 PC software program. Customizable counseling overlays include phoneme examples, sound examples, speech banana and severity indications.

Design and efficiency

The well thought design of the AC40 is ergonomic and based on the clinician's needs. The AC40 includes an articulating, high-resolution 8.4 inch color display that presents crystal clear images for easy to read audiograms. The intuitive keypad design enables quick acclimatisation without losing efficiency or speed. Several display choices are available to customize the readout to your personal preference.



Counseling overlays in the Diagnostic Suite 2.0:

- Phoneme examples
- Sound examples
- Speech banana
- Severity indications



A wide range of applications

The AC40 is a true two channel clinical audiometer with two fully independent channels. It offers a comprehensive test battery for a wide range of advanced diagnostic and research applications. AC40 also includes features making it ideal for pediatric applications and hearing aid fitting. It comes with a powerful built in amplifier for sound field applications.

- **Multi Frequency** for tinnitus measurements and ototoxicity monitoring
- **Pediatric Noise** for frequency specific noise testing
- **Automatic Testing** using Hughson Westlake and Békésy
- **Masking Help** and **Auto Masking** (PC suite only)
- **Masking Level Difference (MLD)** – offers a mixture of phase controlled tone and noise stimuli for testing retrocochlear function and CAPD
- **QuickSIN** for automated speech in noise testing
- **TEN test** for diagnosing dead regions of the cochlear
- **Hearing Loss Simulator** and **Master Hearing Aid** for hearing aid verification
- **SISI** for differentiating between cochlear and retrocochlear disorders
- **ABLB** has its own dedicated screen where any recruitment can be shown in a clear, graphical manner
- **Weber** for distinguishing between a conductive and sensorineural hearing loss
- And more...



David A. Geddes, Aud
Audiology Supervisor, Health Partners, MN, USA

“The hybrid interface is the way of the future”

More highlights

- *Flexible reporting tools – combine results with an Interacoustics middle ear analyzer*
- *Large 8.4” articulating color display*
- *Exceptional power amplifier*
- *Fully EMR compatible (XML and PDF)*
- *Store results in Noah or OtoAccess™*
- *Internal storage for 1,000 patients / 50,000 test sessions*
- *Integrated pre-recorded speech*
- *Direct print options*
- *Direct HDMI output for external monitors*
- *High Frequency up to 20 kHz*



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Define multiple user test protocols on the fly

AC40 Test Screens

As a standalone audiometer AC40 provides all the necessary air, bone and masking features required for advanced diagnostic and clinical use. The built-in 8.4" high resolution color display offers dedicated test screens as well as many display and test options.

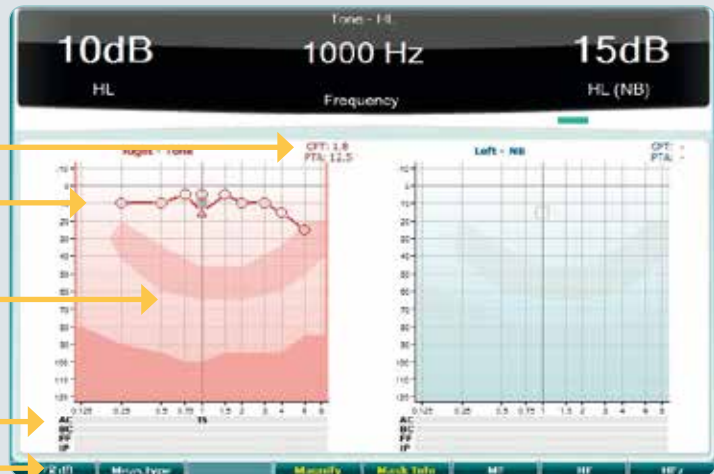
Automatic CPT and PTA calculation

User defined symbol scheme

Speech banana

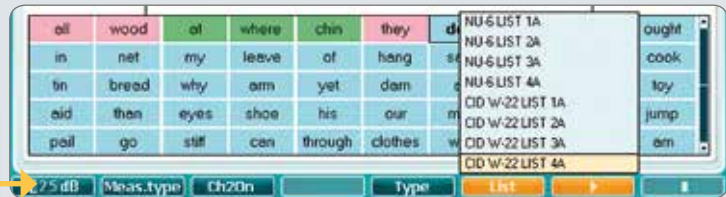
Display masking information

Easy access to main functions



Tone screen with masking info table – single audiogram mode also available

Built-in media player for playing prerecorded speech material



Dedicated QuickSIN™ test screen

Speech audiometry test features

- Live Voice, CD/MP3 or Wavefile presentations
- SRT, Word Recognition, MCL, UCL
- Recorded Word Recognition Scoring
- Binaural speech for CAPD applications
- Speech Stenger
- Built-in Wavefiles (optional)
- QuickSIN™ (optional)

Diagnostic Suite 2.0 Test Screens

Connecting the AC40 to a PC via the Diagnostic Suite 2.0 software, enables the audiometer to be used as a true hybrid audiometer.



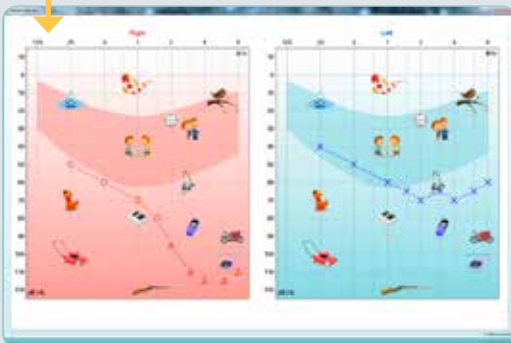
Tone screen – with speech banana and phonemes



Speech screen – with wave files and tone audiogram view



Counseling features



Patient counseling window – here with sound examples

Enhanced usability

- User defined test protocols, reports, and print layouts
- Audiogram comment section
- Customizable user interface
- Easy access to all transducers/signals
- Quick keys for all functions available
- Large patient monitor window to display counseling
- Full EMR interface with XML and PDF export options
- Phoneme scoring
- Audiogram comparison



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Combinations & Specifications

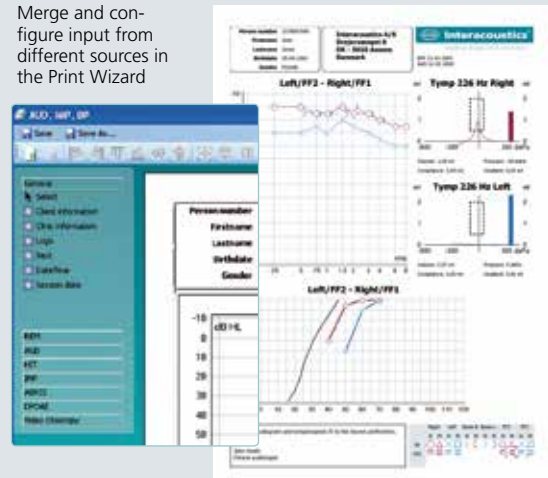
Design your own reports

Interacoustics software suites include a common embedded print wizard. This is a flexible tool that supports reporting requirements for streamlining workflow.

The Print Wizard combines audiometric, impedance and fitting data for full patient reporting.

Unlimited customized templates permit useful alternative templates for different test applications.

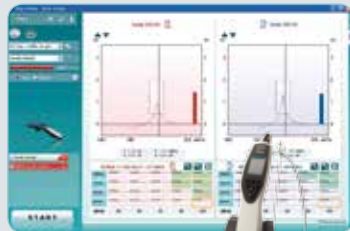
Merge and configure input from different sources in the Print Wizard



Popular combinations

EMR
(Electronic medical records)

Combined
Reporting
Print Wizard



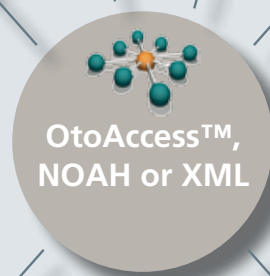
Titan Suite
Tympanometry, OAE &
Automated ABR



VIOT™ Video
Otoscope Suite



Diagnostic Suite
Supports all
Interacoustics stand
alone audiometers and
tympanometers



Affinity^{2.0} / Equinox^{2.0} /
Callisto™ Suite
Audiometry, REM, HIT, and
Visible Speech Mapping

Safety standards	IEC60601-1:2005; ES60601-1:2005/A2:2010; CAN/CSA-C22.2 No. 60601-1:2008; IEC60601-1:1988+A1+A2
Classifications	Class I. Type B Applied parts
Audiometer standards	Tone: IEC 60645-1:2012/ANSI S3.6:2010 Type 1- Speech: IEC 60645-2:1993/ANSI S3.6:2010 Type A or A-E
Calibration	ANSI S3.6, ISO 389-1 TDH type; ISO 389-2 Insert; ISO 389-3 Bone; ISO 389-4 NB; ISO 389-5 HF; ISO 389-7 FF angle ISO 8253-2; ISO 389-8 HDA200 LF
Extended range function	If not activated, the AC output will be limited to 20 dB below maximum output
Input	Tone, Warble Tone, NB, Pediatric Noise, CD1, CD2, Mic1, Mic2, wave files
Masking stimulus	Automatic selection of narrow band noise (or white noise) for tone presentation and speech noise for speech presentation
Outputs	AC Left + Right, BC Left + Right, Insert Phone Left + Right, Insert Masking, FF1+FF2+FF3+FF4, HF Left + Right, HLS, Monitor headset. Assist Monitor
Transducers	DD45, TDH39, HDA200, HDA280 Audiometric headsets, B71 Bone conductor, EARTone3A/5A insert phones
Tone presentation	Manual or Reverse. Single or multiple pulses
Patient signal	Two patient response push buttons
Intensity	AC: -10 to 120 dB HL in 1, 2 or 5dB steps. BC: -10 to 80 dB in 1, 2 or 5 dB steps
Frequency range	125Hz to 8kHz. High Frequency: 8 kHz to 20 kHz - only with HDA200
Frequency selection	125Hz, 250Hz, 750Hz, 1500Hz and 8kHz may freely be deselected
Patient communication	Talk Forward and Talk Back
Monitor	Real stereo output through built-in speakers or through external earphone or assistant monitor
Internal storage	Internal storage for 500 patients/50,000 test sessions. Multiple user settings (protocols)
AC40 comes with different licence-based test configurations. The test battery includes	Speech from hard drive (wave files), ABLB, Stenger, Stenger Speech, Auto threshold, SISI, Langenbeck (tone in noise), Békésy Test, 2 channel tone/speech, 2 channel Master Hearing Aid, QuickSIN™, MLD, Pediatric Noise Stimuli, Multi Frequency, High Frequency, Hearing Loss Simulator
Display	8,4 inch high resolution colour display 800x600 pixels
Direct print (USB)	Supported printers: Please contact local distributor for a list of approved PC printers.
External devices	Standard PC mouse and keyboard (for data entry)
Compatible software	Diagnostic Suite - Noah, OtoAccess and XML compatible
Dimensions (LxWxH)	522 x 366 x 98 cm / 20.6 x 14.4 x 3.9 inch
Weight	7.9kg / 17.4lb
Power supply	Built-in power supply, 100-240 V, 50-60Hz, Max. 0.7A
Medical CE-mark	Yes
Included parts	Goose neck microphone DD45 Audiometric headset HDA200 High Frequency headset 125Hz to 20 kHz B71 bone conductor headset Monitor Headset with boom microphone 2 x APS3 Patient response switch Power cable Multilingual CE instructions for use
Optional parts	TDH39AA with Amplivox Headset Eartone 5A insert phones Eartone 3A 10 insert phones CIR33 insert earphone kit for masking or monitoring Amplivox audiocups, noise reducing headset Talk back microphone Sound field speakers SP90 (with external power amp) AP70 Power Amplifier 2x70 Watt Cable USB 2m Diagnostic Suite OtoAccess™ database

Interacoustics – the wise choice

With over 40 years of experience, Interacoustics is dedicated to supplying its customers with the best possible solutions for their audiological needs. This is accomplished by maintaining a continuous dialogue with healthcare professionals working in all sectors of audiology. Our equipment meets the highest possible engineering standards and we provide design expertise that can only come from close contact with clinical practice.

Solutions on every scale

Designing equipment for every size of clinic in so many countries puts us in the unique position of being able to offer solutions that fit your requirements exactly. Audiometry, tympanometry, electrophysiology, hearing aid testing, balance investigation are all within our scope and can be integrated to suit your needs.

Designed for diagnostics efficiency

We design equipment to make testing and interpretation easier. This means better interfaces, well designed screen layouts, printed reports and interaction over networks with databases and electronic records systems. In most cases, you can configure the settings and layout yourself.

Support worldwide

The Interacoustics name is not only your guarantee of quality and functionality, but also for support. We operate in over 100 countries worldwide through a well coordinated network of distributors and service centres to ensure that you receive total support and service.



Sales and service in your area:

Interacoustics A/S

Phone: +45 6371 3555 · Fax: +45 6371 3522
E-mail: info@interacoustics.com
DK-5610 Assens, Denmark
Web: www.interacoustics.com

Other audiometers:

- PA5 Pediatric Audiometer
- AS608/e Screening Audiometer
- AD226 Diagnostic Audiometer
- AD629 Diagnostic Audiometer
- Callisto™ Diagnostic Audiometer
- Equinox^{2.0} Clinical Audiometer

Audiometry and Middle Ear Analyzer in one:

- AA222 Audio Traveller

Video Otoscope:

- VIOT™



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Read more here:
www.interacoustics.com/AC40



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