

PLUS



AURICAL Plus networked audiology and fitting

AURICAL Plus

Hearing Assessment

Fitting Systems

Balance Assessment

GNI Otometrics

More features. More convenience. More flexibility.

With more than 10,000 installed systems worldwide, it's no wonder MADSEN Aurical has become the gold standard for audiologic diagnostics and hearing instrument testing, fitting, and programming. And now, the AURICAL Plus gives you more features than ever before – plus full integration with your computer network for even greater flexibility and streamlined workflow.

Comprehensive, modular diagnostic and fitting system

Just imagine – a single AURICAL Plus can provide advanced audiometry (HL or SPL), automated loudness scaling, real ear measurements featuring openREM, real-ear-to-coupler measurements (RECD), HI-PRO hearing in-

strument programming, and hearing instrument testing, – or any combination of the above. And because AURICAL Plus is modular, you can always upgrade your unit to include new features and functions as your practice grows.

The compact and highly portable AURICAL Plus forms the core of the GN Otometrics audiovisual fitting solution – and offers you connectivity to other audiologic instrumentation for video otoscopy and immittance.

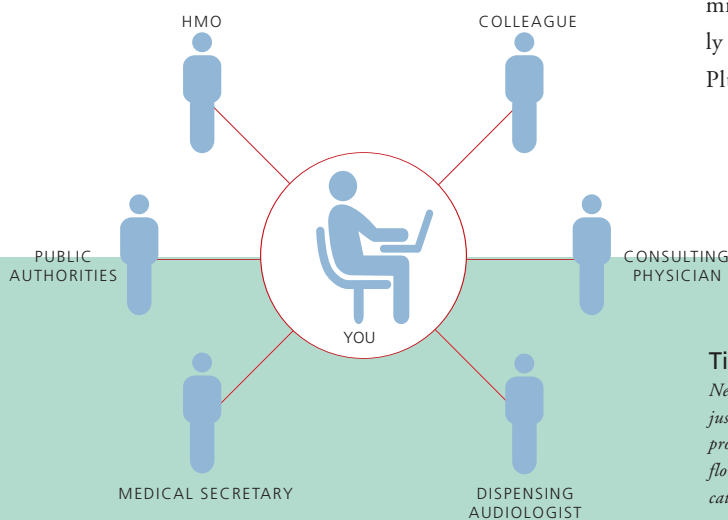
Make the most of your computer network

Now that most hearing instruments are programmable, it's only natural that each step in the fitting process – audiometry, real ear, hearing-instrument testing, fitting, and programming – can be controlled directly from your PC. AURICAL Plus provides the hardware and

software needed so you can streamline your examinations, save valuable time, and provide your patients with significantly better service. Moreover, because AURICAL Plus provides true networking capability and XML data export, it's easy to share patient data with other audiological devices in other test rooms, add information to electronic patient records, or even print out customized reports on your own printer.

Supplying the world's leading dispensers

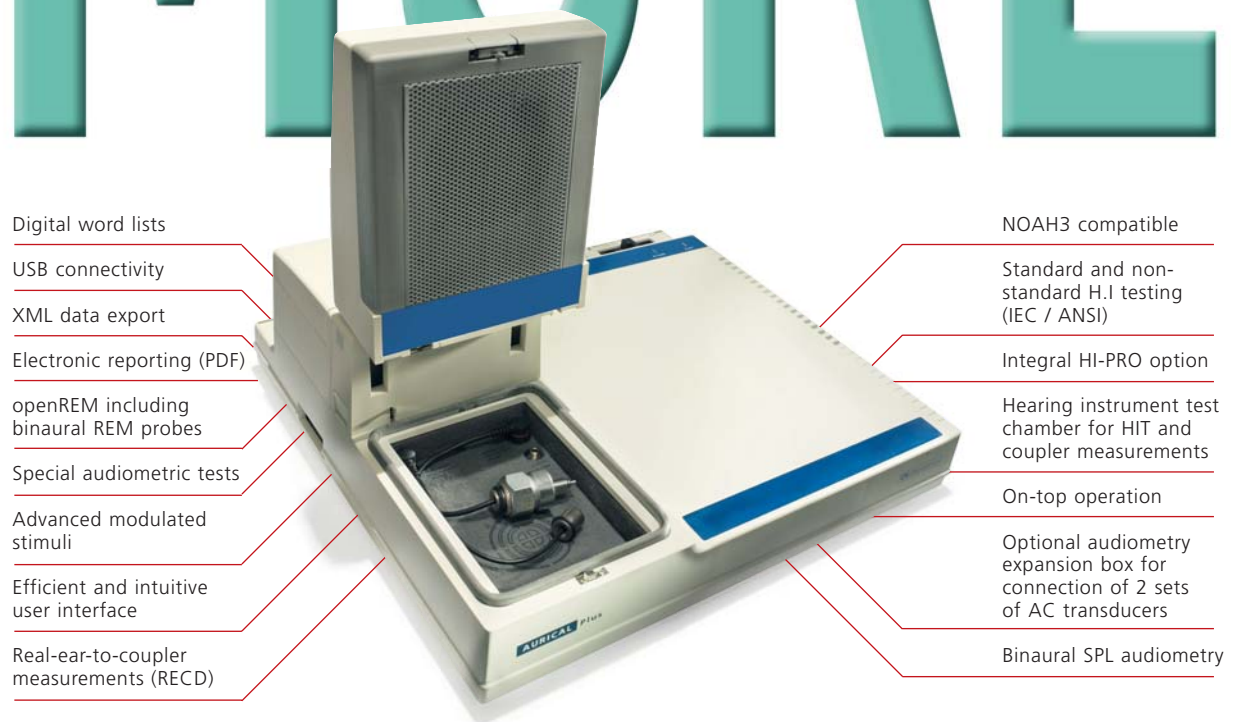
Thanks to its efficiency and connectivity, AURICAL has become the system of choice for many hospitals, teaching institutions, and leading hearing-instrument dispensers. Shouldn't AURICAL Plus become the centerpiece of your diagnostic and fitting solution, too?



Time to connect

Networking means more than just streamlining internal processes and improving workflow – it's also about communicating with other people, so you can give your customers better service and receive faster reimbursement from health-insurance providers.

MORE



- Digital word lists
- USB connectivity
- XML data export
- Electronic reporting (PDF)
- openREM including binaural REM probes
- Special audiometric tests
- Advanced modulated stimuli
- Efficient and intuitive user interface
- Real-ear-to-coupler measurements (RECD)

- NOAH3 compatible
- Standard and non-standard H.I testing (IEC / ANSI)
- Integral HI-PRO option
- Hearing instrument test chamber for HIT and coupler measurements
- On-top operation
- Optional audiometry expansion box for connection of 2 sets of AC transducers
- Binaural SPL audiometry

Open standards. **openREM.** Open communications.

As a true clinical audiometer, AURICAL Plus provides complete two-channel tone audiometry in HL or SPL plus a wide range of special tests. It's even possible to superimpose high-resolution color audiograms so it's easier to read and interpret test results, and compare them over time.

Advanced speech audiometry

For speech audiometry, AURICAL Plus provides both numeric and graphic screens. Our new, intuitive screen layouts mean that speech tests are easier and quicker to perform – for example, the on-screen word counter automatically tracks score. Moreover, the optional CD ROM control module lets you present speech material directly from your PC. And with digital word lists, there's no noise or delay – and you don't even need a CD.

Sharing data enhances efficiency

Our software is fully NOAH3 compatible. Not only does this help you manage large numbers of patients, AURICAL Plus can share data with the same PC or network you use to carry out other NOAH-compatible audiologic measurements. Naturally, all test data are automatically saved in the patient's electronic record.

In situ or coupler measurements

Target rules can be freely defined or you can choose other rules including NAL NL1 and DSL [I/O]. Real-ear measurements can be performed *in situ* with the binaural REM/SPL headset or our 2cc coupler for RECD, so you can easily fit hearing instruments on young children. Moreover, with the advent of non-occluding, open-fitted hearing instruments, dispensers need a probe

mic system capable of performing accurate real-ear measurements during the fitting process. AURICAL Plus' open-REM mode provides just that.

Integrated H.I. programming

AURICAL Plus can be equipped with an integral HI-PRO interface or connected to an external HI-PRO box. Any manufacturer's NOAH3-compatible fitting software can be used. For optimal H.I. programming, our REM module can run alongside proprietary fitting software so measurement curves appear on the same screen as the fitting module in real time.



openREM mode

Perform accurate real-ear measurements while fitting non-occluding hearing instruments.



CD ROM control

Enhance your speech testing by eliminating noisy and slow CD drives by utilizing virtual CD drives and assisted scoring of hard drive based word lists.



Outstanding interface

Easy-to read screen layouts mean that tests are easier and quicker to perform than ever before.

OPEN



*AURICAL Plus is truly open.
It keeps pace with changes in
technology. It can be updated.
It can be expanded. What's more,
it can be connected to any PC
via a standard USB cable for
easy integration with other
audiological instruments.*

Xtra time. Xtra **integration.** Xtra opportunities.

AURICAL Plus helps streamline the fitting process and save you valuable time. That means you enjoy higher throughput and improved economy, yet without sacrificing quality or customer service. For example, with all the necessary hardware close at hand, nothing is easier than performing a quick check on a hearing instrument whenever a patient comes into your practice.

Our HIT software performs all conventional hearing instrument tests in compliance with current IEC and ANSI standards. Measurement is fully flexible – tests may be done one at a time or performed in automatic sequences. And the built-in test chamber includes an integrated telecoil and a set of battery pills for battery simulation and current measurements.

Non-standard H.I. testing

AURICAL Plus also features a “non-standard” testing mode that provides FFT measurement and lets you define all test settings including test type (gain, output, and distortion), signal type, level, and frequency. This makes it possible to test according to other standards or design custom test protocols to fit your own needs. And with our convenient “library” of hearing instruments, individual specifications can be entered for all your favorite hearing instruments and accessed from both the REM and HIT application modules.

Full audio-visual fitting solution

The rapid development of new hearing instruments has placed increasingly complex demands on hearing care professionals.

Patients, and their families, also have higher expectations. And H.I. manufacturers are fiercely competing to provide new, interactive fitting tools. GN Otometrics’ audio-visual fitting solution helps you satisfy all of these new demands. Because the system includes all the components needed to fit high-end digital hearing instruments, including open-REM, you can improve the fitting process by bringing all of the related steps into one room, or network among several rooms. In short, our solution integrates all the devices needed for both objective and subjective fitting of hearing instruments – with AURICAL Plus as the focal point.



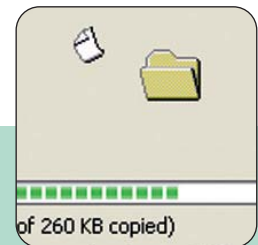
More efficient fitting

With AURICAL Plus, you enjoy higher throughput and improved economy, yet without sacrificing quality or customer service.



Integration with other equipment

AURICAL Plus integrates seamlessly with other GN Otometrics’ instrumentation for video otoscopy and immittance, via your computer network.



Paperless patient records

Electronic reporting makes it easy to file test results, or share information with H.I. manufacturers, insurance providers, etc.

XTRA



Networked diagnostics and fitting make both workflow and reporting more efficient so health-insurance reimbursements arrive faster. Not only does AURICAL Plus represent an excellent long-term investment, your patients will enjoy better service, which can give you a significant competitive advantage.

Technical specifications

Audiometry

Channels: two separate and identical channels

Reporting: configurable reports for paper reports or electronic reports using Adobe® PDF or data sharing via XML

Masking: contralateral, ipsilateral or binaural; white noise, speech noise, NBN, or external (CD/Tape)

Outputs: air (phones or insert phones), bone, free-field; probe for SPL audiometry; free-field loudspeaker option

Levels: -10 to 130 dB in 1 or 5 dB steps (maximum output is limited by transducer capability)

Tone mode: standard frequencies (125 - 8,000 Hz)

Stimuli: pure, warble, and pulsed tones, NBN, NBN masking

Tone switch: manual or 1.5 sec. tone duration

Speech mode: stimulus via mic. or CD/tape 1-2 with speech-noise masking. Word counter and automatic score calculation. Optional CD-ROM control for automatic playback of speech on CD

Patient: talkover, talkback, monitoring; assistant monitoring earphone

Real-ear measurements

Available tests: REUR, REOR, REAR, REIR, Coupler Response, RECD

Stimuli: tone, warble, white noise, speech noise; mod. White noise, mod. Speech noise

Frequency range: 100 -10,000 Hz

Patient safety: Programmable maximum level limiter (based on UCL)

Outputs: External loudspeaker via internal amplifier (7 W/4 Ω, 5 W/8 Ω) or external amplifier

Hearing-instrument testing (HIT), 2 cc coupler

Available tests:

ANSI S3.22

IEC 118-0, IEC 118-1, IEC 118-2, IEC 118-7

Non-standard mode

Instrument

Power supply: AC 50/60 Hz, 100 V - 240 V

Dimensions: 38 x 35 x 14 cm, 15" x 13¾" x 5½" (W x D x H)

Weight: 3.3 kg, 7¼ lbs

Approvals: CE-marked according to the Medical Devices Directive 93/42/EEC

GN Otometrics is the world's leading manufacturer of hearing and balance assessment instrumentation and software. Our extensive product portfolio ranges from infant screening applications, audiologic diagnostics and office management software, to balance testing and hearing instrument fitting.

As an organization, we are committed to developing innovative, integrated solutions that help healthcare professionals make the best possible decisions. This, in turn, helps our customers improve the overall standard of patient care wherever they are located.

Headquartered in Copenhagen, Denmark, and with a center of development in the United States, we maintain a global network of distributors and subsidiaries. GN Otometrics is part of GN Store Nord.



AURICAL Plus provides seamless integration with many other audiometric products from GN Otometrics, including the remarkable MADSEN OTOflex 100.

OTOflex features tympanometry reflex screening/threshold/decay, plus ETF – all in a single, compact, and highly flexible unit. Hang it on the wall, set it on your desk, or even put it in your pocket, you'll always have everything you need close at hand. **Find out more at www.gnotometrics.com**

Distributor:

Hearing Assessment

Fitting Systems

Balance Assessment

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