Unity™ 4 Fitting Unit

Modern aesthetics and compact elegance.

New hearing assessment and fitting unit

Our new Unity 4 fitting unit boasts a remarkably reduced physical footprint, showcasing our revolutionary stackable design. Embrace the perfect blend of functionality and space-saving elegance.

Experience a new era of best practices with our revolutionary audiometer and fitting unit solution. Offering flexibility through a wired option, our sleek and stackable device seamlessly integrated into any clinic decor, optimizing space while maintaining a modern aesthetic. Get accurate and reliable results for hearing evaluations with the new diagnostic audiometer and fitting unit. It is engineered with robust hardware for more accurate results, fewer cords and a more minimalistic design.

With advanced features like portability, wireless ready and precise diagnostic capabilities, the audiometer revolutionizes testing and increases efficiency and accuracy. Elevate the consumer experience, enhance workflow, and confidently deliver superior care with our hearing assessment and fitting unit.

Our audiological equipment and software seamlessly integrate to Noah and our modular architecture makes it possible to add specific modules you need

Elevate you customer experience

Step into the future of audiology with a game-changing solution. The diagnostic audiometer and fitting unit offer accurate results and the seamless comfort and effortless customer interaction.

It is engineered with robust hardware for more accurate results, fewer cables and a minimalist design that looks great in your clinic.

Discover the new Unity 4 system solution

With the new Unity 4, we put functionality and design first including the reduction of cables and the ability to hide them.

To match the fitting unit we have designed a new REM loudspeaker that blends in perfectly with the overall appearance. The loudspeaker can be placed on top of the fitting unit or separately on a stand.

Starting the wireless journey in 2024, we will additionally offer a wireless patient response button and a wireless bilateral REM probe headset and in a second step AC and BC transducers.

Diagnostic audiometer and fitting unit - one for all

The new audiometer and fitting unit features a contemporary design in an elegant aluminum look that blends perfectly with a modern and clean office design. It is built and rigorously tested for stability and robustness. Its small size and reduced cable connectors make it fully portable and easy to set up also for home visits.

The integrated two-channel power amplifier can drive high-efficiency speakers for sound field testing. Alternatively, two powered speakers can be connected to the line out connector, or the calibrated audiometer output signals can be routed to an external multi-channel receiver via the S/PDiff optical output.

The Unity 4 Audiometer offers pure tone testing with air and bone conduction, which is supported by a masking assistant that guides the operator. Threshold measurement can also be performed automatically using the Hughson-Westlake-Methode.

For Speech testing a wide range of recorded speech test material is supported for many languages. Further, live voice speech testing can be performed.

New patient response button

The new patient response button offers unmatched convenience. There is less risk of cable entanglement and falls, easier maintenance, and no risk of cable breakage. The operator always has full control over proper functionality, as the patient´s response is also indicated by an LED on the operator-facing side of the response button. The rechargeable battery lasts for several thousand hours of use.

Wireless REM probe

The wireless, bilateral REM probe makes your fittings much smoother.
The wireless REM probe headset comes with a stand that can either be placed nearby on the desk or attached to the back of the REM speaker to keep everything at hand with lowest possible footprint. The headset recharges when placed on the stand, so you always have a charged headset at your fingertips.

Hearing aid testing

Our current hearing aid Test Box is compatible with the new Unity 4 Fitting Unit. The new Fitting Unit integrates seamlessly into the existing design of the Test Box and can be easily attached to the back of the Test Box using the mounting kit supplied together with the Test Box.

This combination has all the tests you need to test, fit and verify hearing aids, regardless of manufacturer. The Test Box provides high ambient sound protection to work in normal office environments. The ability to monitor output signals and battery consumption over time, as well as perform free-style tests, provides an excellent set of tools for hearing aid service and maintenance. The system complies with IEC and ANSI industrial standards and is fully Noah compatible.

Unity 4 Software Suite

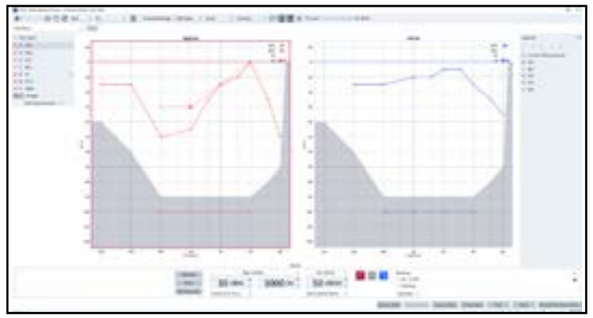
Unity Software Suite version 6 is a powerful tool to support hearing care professionals in their daily work. The suite combines several software modules under one hood, making them easily accessible and usable. It can be used either as a Noah 4 module or as a stand-alone application with a proprietary patient database that is shared with Connexx Fitting Software.

The user interface has been improved through years of experience to make it as intuitive as possible to use.
- All frequently used controls are right at your fingertips
- Rarely used functions available from expert level

Unity Software Suite further supports effective working through freely definable workflows of all elements of the software suite.
- Guides the user through the test sequence of a given protocol
- Provides all tests in the right setup and view
- Offers automatic quality checks for plausibility and completeness.

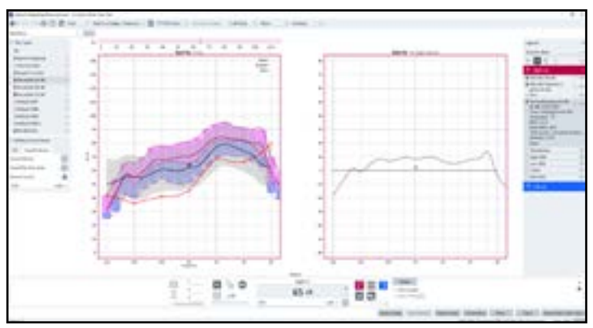
Available Software Modules in Unity Software Suite version 6:

Audiometer Module
Full clinical audiometer with pure tone and speech testing. Providing masking assistant and a range of nudging features to support operators.



Real Ear Measurement Module
Range of classical REM tests including RECD, 2cc-coupler testing and hearing aid transition.

Speech Mapping Module
Tests for directionality, speech in noise, frequency shifting, and percentile analysis.



Hearing Instrument Analyzer Module
According to IEC/ANSI standards plus customizable test definitions (compatible with Unity 3 HIT Unit).

Otoscopy Module
Compatible to e.g. ORL Vision OX2, Firefly DE500, and DE550.

Immittance Module
To display tympanometric results stored in Noah.

Hearing Loss / Hearing Aid Simulator

Technical Data

Standards	Audiometry	Tone: IEC 60645-1:2012, 60645-4:1994 / ANSI S3.6:2010 Type 1 Speech: IEC 60645-2:1997 / ANSI S3.6:2010 Type A or A-E
	REM	IEC 61669:2015, ANSI S3.46:2013, ISO 12124:2001
	Safety	IEC 60601-1:2005+A1:2012, Class 2, Type B
	EMC	IEC 60601-1-2:2014
	Calibration	ISO 389-7:2005
Tone Testing	Tests	HTL, MCL, UCL, BCL, FF, FF-A, Weber test, SISI test, Hughson-Westlake method, TEN test, Stenger test
	Output	AC, BC, and Free Field (2-channel amplified, line-out or optical output S/PDIF)
	Transducers	Insert Earphone, Bone Conductor - B71, DD45, DD450, DD65 v2, ER-3C Insert, Free Field Speaker
	Frequency Range	125 Hz to 16 kHz (with DD450 only)
	Hearing Levels	-10 dB HL up to 120 dB HL (max. output is limited by transducer capability)
	Stimuli Distortion	Less than 1%
	Stimuli	Pure tone, pulsed pure tone, warble, pulsed warble, narrowband noise, and pulsed narrowband noise
	Masking Noise	Narrowband noise, white noise, speech noise
	Extended Range	+20 dB
	Tone Switch	Manual or 0.1 - 5 sec. tone duration
	Client Response System	Handheld push button
	Monitoring	Operator Monitor for talk-back and stimuli monitoring
	Talk Over / Talk Back	Full bi-directional client communication
	Client Safety	Max. level limiter (max 100 dB w/o extended range, UCL limiter)
Speech Testing	Tests	SRT, MCL, UCL, SD, SD-A, SDN, SDN-A, and QuickSIN (CD required)
	Output	AC, BC, and Free Field (2 channel amplified, line-out or optical output S/PDIF)
	Transducers	Insert Earphone, Bone Conductor - B71, DD45, DD450, DD65 v2, ER-3C Insert, Free Field Speaker
	Stimuli	CD, Sound Library, or Live voice using operator microphone
	Masking Noise	Speech noise, white noise, CD and sound files
	Monitoring	Operator Monitor for talk-back and stimuli monitoring
	Talk Over / Talk Back	Full bi-directional client communication
REM/ SM Testing	Tests	in REM: REUR/REUG, REOR/REOG, REAR/REAG, REIG, RECD FF, RECD Insert, HA transition in SM: Speech Mapping, Noise Reduction, Speech in noise, REUR/REUG, REAR/ REAG, REIG, Percentile, HA transition
	Output	Free Field
	Transducers	bilateral Real Ear Probe (wired or wireless), Free Field speaker
	Stimuli	ICRA noises, ISTS, ISTS-MPO, white noise, pink noise, speech noise, speech noise – ILTASS, Live speech, Pre-recorded sound files, DSL 's' and 'sh' sounds
	Frequency Range	125 Hz to 16 kHz
	Frequency Resolution	1/3rd, 1/24th octave based on 2048 pt. FFT
	Signal Levels	50 - 90 dB SPL
	Stimuli Distortion	Less than 1%
	Monitoring	Operator Monitor for talk-back and stimuli monitoring
	Client Safety	UCL limiter

Instrument	Power Supply	USB-C powered. External power supply unit needed for elevated Free Field outputs
	Dimensions	140 x 140 x 55 mm (5.5 x5.5 x 2.1 in)
	Weight	415 g
	Connections	AC1 (HF), AC2 (HF), BC, Client Response, Option Connector (RECD), S/PDIF optical output, Left/Right Loudspeaker, Operator Monitor, Operator Monitor Talk Over/ Live Speech, Talk Back Microphone, Free Field (Line Out), USB-C, DC input for external power supply.
PC Minimum Requirements	CPU	Minimum 2 GHz processor (recommended 2 GHz or higher multi core) with 2 GB system RAM (4 GB or more)
	Hard Disk Space	2 GB free hard disk space for Unity 4
	Operating System	Windows 10 and Windows 10 Anniversary Update, Windows 11
	Screen Resolution	1280 x 1024 (1920 x 1080 recommended)
	Graphics Card	XVGA (dual monitor output recommended)
	Connections	CD drive required for speech test CD's. USB 3.0, USB-C connection required.
	Noah Compatibility	Noah 7 or higher

Standard & Optional Parts

Standard Accessories	21031197	Client Response
	10823944	DC Adaptor
		USB 3 cord (USB-A to USB-C)
	10823966	USB stick with software
	21031185	Quick Installation Guide
Optional Parts	21031196	Insert Earphone
	21031187	REM speaker
	21031190	REM Probe Flex
	21031193	Bone Conductor – B71
	21031192	DD45 supraaural headphone with HBA headband
	21031194	DD450 circumaural HF-headphone w. sound attentuating ear-cups
	21031191	DD65 v2
	21031195	ER-3C Insert Phone
	10940355	Headset with mic. -S (Talk over)
	10823941	Microphone (Talk back)
	10824086	Free Field Speaker LS01, 90dB SPL max.
	10823939	USB Isolation Cord
	21023717	Loudspeaker Small, Cambridge Audio, Mini12, 80dB SPL max.
	21031200	Sound chamber cable set w. ID chip
Consumables	10823943	Ear Hanger (4 Pieces)
	08786852	E-A-RLINK 3B (Small, 50 pcs)
	08786845	E-A-RLINK 3A (Medium, 50 pcs)
	08786860	E-A-RLINK 3C (Large, 24 pcs)
	10823956	Insert Tube with Nipples
	10823957	Probe tube guide (8 pcs)
	10823958	Probe tubes (40 pcs)

Smart Calibration Service Support

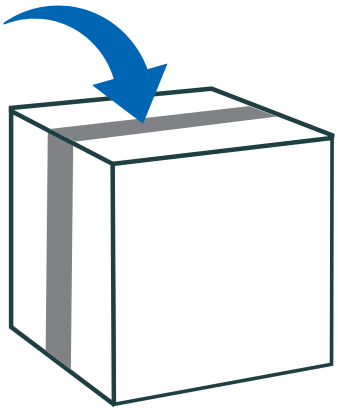
Make calibration downtime a thing of the past

The magic lies in the simplicity. With the SWAP service we ship calibrated transducers to you well in advance of the due date of the old ones. You plug in the new transducers, and you are ready for your next client without any interruption. You return the expired transducers and experience no downtime.

Step 1

RECEIVE

Step 2



PACK

Step 3

RETURN

Calibration stored in the transducer plug

The innovative software stores the calibration information in the plug. Which means all you have to do to get your software calibrated is to plug in a new set of earphones or probes, no hassle, no downtime. And your 12-month activation date begins the day you active the transducer in the software.

Keep the overview - Asset management cloud service

With Asset Management cloud service you can keep an overview of all your transducers and their calibration status. In the Asset Management cloud, you can view and check Transducer type, serial number, their location and IP location, latest calibration data and number of days until calibration. Keeping track of your transducers in the cloud means that you can easily plan your calibration SWAP and be prepared for Audits.

The Fitting System is manufactured and sold in the EU by:
Auditdata A/S, Wildersgade 10B, 1408, Copenhagen, Denmark