

NEW

OAE/AABR

Otoport



LITE
FAST | EASY | CLEAR



FLEXI
OAEs DESIGNED FOR THE CLINIC



ADVANCE
WITH EXTENDED OAE FUNCTIONS

NEW



Otoport

OAE / ABR

Otoport will meet your needs whatever your clinical requirements, size or type of screening program. It's a compact, easy to operate handheld device featuring unrivalled adaptability.

The Otoport brings together over 35 years of expertise in one portable device. Otodynamics was the first OAE company and we pioneered methods that set the OAE gold standard. The reliability and performance of Otodynamics' ABR screening algorithm has been proven in universal newborn hearing screening programs around the world.

For screening, select the Otoport Lite model with the test combination you prefer. From infant screening with ABR, OAE, or ABR+OAE to Paediatric screening with OAEs. High specificity relies on good testing conditions and here the Otoport Lite scores by assessing the testing environment and providing essential feedback.

For investigations, the Otoport has powerful clinical analysis models with fully customisable OAE protocols. Each test is saved with the actual physiological response. Choose the Otoport Advance model for clinical research and access to selected research functions for IRB approved projects.



HIGHLY ADAPTABLE
Meeting your screening & clinical needs



FULLY CUSTOMISABLE
Up to 16 protocols available



ANY TEST COMBINATION
DP | TE | ABR | DP+ABR |
TE+ABR | DP+TE+ABR



VISUAL DISTRACTION DISPLAY
Friendly Paediatric animations



QR SCAN
For data entry & login

CHOOSE YOUR OTOPORT MODEL

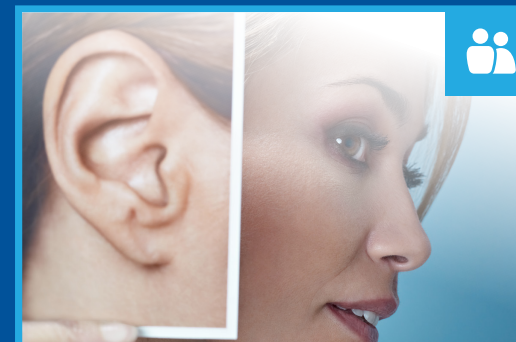
Every Otoport has the same hardware, ensuring reliability, uniform performance, and upgradability. Three distinct firmware versions provide levels of functionality tailored to three application areas.



The LITE model

LITE *Fast | Easy | Clear*

The Otoport Lite has been expertly designed to be flexible, simple, easy-to-use, and fast, while meeting all your screening needs from newborn screening through to paediatric assessments. Screeners are aided to identify problems by on-screen messages, to improve their techniques, and thereby improve overall performance of the program. Choose any one or a combination of DPOAE, TEOAE and ABR tests Upgrade later with a QR licence activation. Each test type delivers reliability and performance with ultra fast, accurate and clear results.



Includes Lite model

FLEXI *OAEs designed for the clinic*

The Otoport Flexi has exactly what's needed for clinical OAEs at a highly competitive price. Six powerful customisable protocols, including 12 frequency 1-8kHz DPgram with normative range markers. Clinical OAEs have real clinical value with adults and older children, alerting you to the possibility of both conductive and cochlear losses. The Otoport Flexi includes all the Otoport Lite functions and beyond. With one touch, the Otoport Flexi can be configured for adult, paediatric or infant screening applications.



Includes Lite & Flexi model

ADVANCE *With extended OAE functions*

Benefit from the full range and power of the Otoport Advance. Boasting 16 fully customisable protocols, the Otoport Advance model will perform in the most demanding of clinics. Incorporating all the functions of the Otoport Lite and Flexi models, the Advance has three additional investigational OAE functions. DP ZOOM explores DP-gram features at up to 100 points per octave resolution. Stimulus levels are configurable in 1dB steps. DP GROWTH provides multi stimulus level DPOAE measurements at any frequency 1-8kHz. MULTI TEST function linking up to 4 loop-able test protocols allowing you to build a sequence of different DP and/or TE tests.



FEATURES COMMON TO ALL MODELS

Learn more about the large number of features that are included in every Otoport model.



QUICKLOOK GUIDE

Review the quick look guide to compare, at a glance, each Otoport model and their related DPOAE, TEOAE and ABR specifications. See additional options for your Otoport

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PAGE 6

PAGES 7 & 8

PAGES 9 & 10

Otoport LITE

FAST | EASY | CLEAR

OAE / ABR

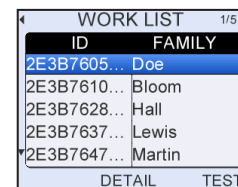
The Otoport Lite comes pre-configured for screening efficiency and arrives ready to go. Whether you choose AABR or OAE as your primary screen, Otoport requires minimal training to achieve fast and clear results. To meet your special requirements, you can also customise test protocols and use OAE and AABR in combination.

With Otoport you get multiple days of use between battery charges. Its robust design, large onboard searchable patient database and detailed response capture, means Otoport can meet all your screening and program management needs.

UNIQUE DISTRACTION DISPLAY

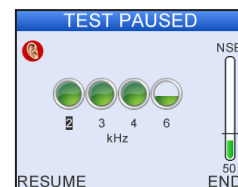
When conducting challenging paediatric OAE assessments, the Otoport has 6 visual distraction animations that helps to keep the child quiet and engaged. The child is encouraged to remain quiet as they watch the onscreen cartoon gradually filling with colour. If noise is detected during the test, the colours quickly fade and return when the child settles creating positive reinforcement.

STREAMLINED TESTING



Use the programmable Work List feature to plan your screening workload.

PAUSE CONTROL



Pause and resume a test at any time to check probe fit, adjust the environment or to allow time to settle a patient.

CHOOSE YOUR TEST TYPES

DP OAE



✓ INFANT ✓ PAEDIATRIC

Tests 4 frequencies (2,3,4,6kHz) with a choice of 3 preset stimulus levels, optimised for screening. Rapidly test infants and pre-school children.

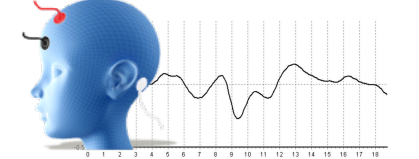
TE OAE



✓ INFANT

Tests up to 5 half octave frequency bands (1,1.5, 2, 3 and 4kHz) using our 'Quickscreen' click stimulation at 84dB SPLpe, proven in the worlds most extensive screening trials. TEOAEs are fast and effective for infant screening.

AABR



✓ INFANT

Tests using short Chirp stimulation, configurable between 35 and 45dBnHL designed for newborn screening. Results are fast and with continuous monitoring of Fsp and ABR waveform shape to ensure that a 'clear response' is a true response.

1. QUICK INPUT



Effortlessly enter patient details via QR code scanning*, worklist or enter manually.

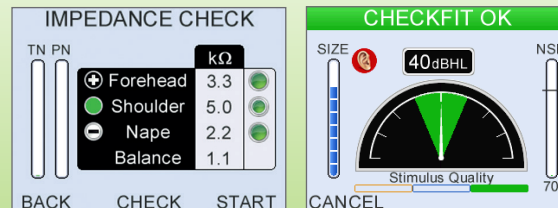
2. EASY FIT



Otodynamics right angled probe can be used for both OAE & AABR testing. Its unique design makes it easy to achieve a good probe fit.

Ear cups can also be used with the Otoport. However, using the probe inserted into the ear for AABR can reduce consumable costs. Otoport can perform single or dual probe testing.

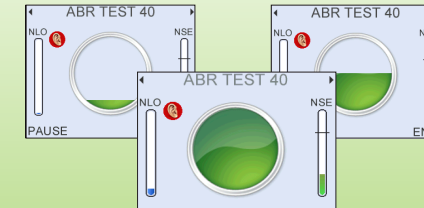
3. SUPERIOR PRE-TEST ANALYSIS



See test progress every step of the way, automated alerts are displayed if changes in stimulus levels, impedance, or excess noise that may effect the test.

For AABRs, superior pre-test environment checks provides separate powerline & infant noise indicators and quickly identify if a specific electrode has high impedance.

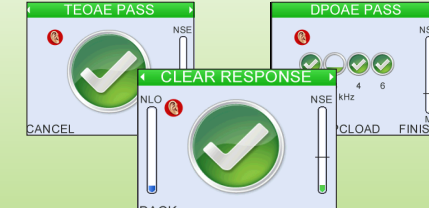
4. CLEAR TEST PROGRESSION



See test progress every step of the way, automated alerts are displayed if changes in stimulus levels, impedances, or excess noise levels that may effect the test.

For AABR there is continuous monitoring of Fsp and ABR waveform shape to ensure that a 'clear response' is a true response.

5. FAST ABR RESULT



The Otoport Lite is fast, easy and clear. With just 2 key presses**, achieve a clear response.

OAE in as little as 7 seconds
AABR average pass in 80 seconds

6. SMOOTH DOWNLOAD



Data transfer is quick and easy. Simply plug-in and tests can be automatically downloaded to Otolink PC software via wired or wirelessly

* Hospital QR and barcoded IDs vary. The specification of your facilities QR/Barcode format is required to confirm compatibility.
** Quick Start option enabled



Otoport **FLEXI**

OAEs DESIGNED FOR THE CLINIC

The Otoport Flexi model provides fast and accurate DPOAE recordings on adults, children, infants, and much more with extensive configurability and expandability.

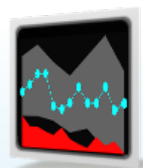
At the heart of the Flexi is a 12 frequency 1-8kHz DPgram with 1/4 octave resolution with 5 stimulus formats. Smart frequency sweep management optimises test time and settable normative range markers assist your interpretation of the results.

You can create customised DPOAE test protocols for special requirements. Use multiple levels to record cochlear function to high accuracy e.g. for the detection of changes with therapy or for monitoring cochlear status over time.

Every test stimulus is optimised using our unique 'in-the-ear calibration' process. Test details and responses are saved to the onboard patient records database, which you can search and review on the device. Or transfer results to PC, via USB or Bluetooth download, for more detailed examination with the included Otolink PC software.

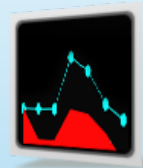
The Otoport Flexi includes all the OAE functions of the Otoport Lite with increased protocols and customisation.

KEY FEATURES



DP 12 FREQUENCY

Two customisable 1-8kHz DP-gram protocols with 1/4 octave resolution and 5 selectable stimulus formats. Smart frequency sweep management optimises test time and settable normative range markers assist interpretation



DP OAE

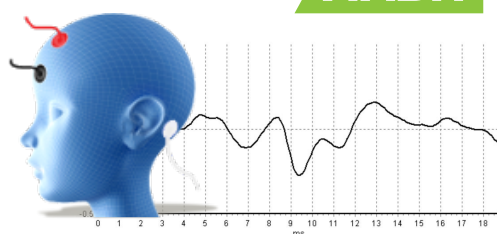
Two 1-8kHz customisable protocols with Half octave line-graph and frequency circle display.



ADD TE OAE

Increase the depth and power of your clinical investigations by adding our gold-standard 1-6kHz TEOAE analysis with half octave analysis between 800-6kHz and waveform display

ADD AABR



You can add AABR infant screening to the Otoport Flexi model, offering two AABR protocols customisable between 35 - 45dBnHL. Extend to 60dBnHL for non-screening training/research use. Display the emerging ABR waveform test in real time and detailed examination post test.



Otoport **ADVANCE**

WITH EXTENDED OAE FUNCTIONS

Top of the Otoport range, the 'Advance' model is an exceptionally powerful handheld auditory investigation device.

The Advance has all the features and options of the Otoport Flexi plus three additional investigational test modes: DP Zoom, DP Growth and MULTI-TEST. TEOAE is also included as standard with additional high-resolution spectral analysis from 0.5 to 6kHz.

Take advantage of all Advance's sophisticated tools to go beyond routine clinical DPOAE recordings towards clinical research investigations. Capture detailed test information including physiological responses for in-depth analysis in our Otolink PC software, which can also export data for research.

Otoport records high resolution DPOAEs from 0.5kHz to 8kHz. Sweep frequency automatically or under manual control to focus on difficult frequencies. Achieve unrivalled frequency resolution with DP Zoom. Explore cochlear function with input-output measurements using the Advance DP Growth test. Link up to 4 tests together in a repeatable test sequence using the MULTI-TEST macro programmer.

KEY FEATURES



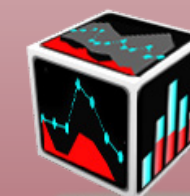
DP ZOOM

Allows you to investigate a specific range of frequencies from 0.5 to 8kHz in high resolution of up to 100 pts/oct. Explore details of DP-gram features such as notches to establish their true extent and depth. Export data for analysis and research.



DP GROWTH

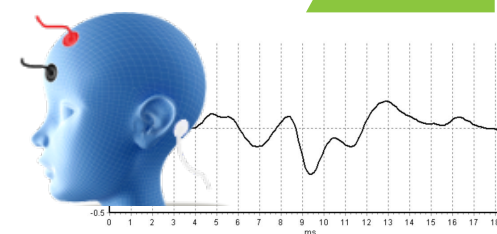
Select any frequency and see how DPOAE intensity grows with stimulus level. Stimuli are optimised by the 'scissor' formula. Plot either dB/dB or uPa/dB growth. Automatic regression analysis provides slope and DPOAE threshold data for sufficiently linear uPa growth results.



MULTI TEST

Four fully customisable loop-able test protocols. Allows you to build a sequence of DP and/or TE tests at different levels. Collect vast amounts of data automatically.

ADD AABR



You can add AABR infant screening to the Otoport Advance model, offering two AABR protocols customisable between 35 - 45dBnHL. Extend to 60dBnHL for non-screening training/research use. Display the emerging ABR waveform test in real time and detailed examination post test.

Otoport

COMMON FEATURES ACROSS ALL MODELS

SCREENING STREAMLINED

WORK LIST	
ID	FAMILY
2E3B7605	Doe
2E3B7610	Bloom
2E3B7628	Hall
2E3B7637	Lewis
2E3B7647	Martin

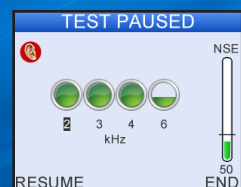
Use the programmable Work List feature to plan your screening workload.

LARGE STORAGE

Thomas	
DPOAE	DPOAE PASS
OAE 15.7dB	OAE1: 70-70dB
Time 88sec	1.5 2 3 4 6 8
30 Jul 24	10:16 ADN

Store up to 2000* tests listed in chronological order with on-screen test result summary table.

PAUSE TESTING



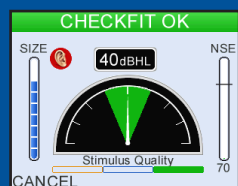
Pause and resume testing at any time to address any issue impacting a test, such as noise, probe or electrode fitment.

QUALITY ASSURANCE

QA AREA	
1	Probe Test
2	OAE Cavity Test
3	Occlusion Test
4	Real Ear Test
5	ABR Cavity Test

Dedicated QA test area with optional enforced daily QA. View QA history with on board Probe test facility and Probe ID tracking.

ACCURACY



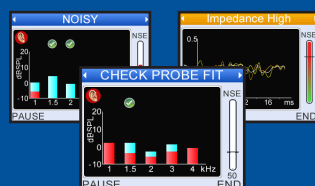
Every test starts with automated 'in-the-ear' calibration ensuring accurate results.

ADMIN CONTROL

USERS		
USER	PASSWORD	A
Admin	ADN	A
Doe	DOE	
Evans	EVA	
Hall	HAL	
Dean	DEA	

Create multiple user profile logins with password protection and Admin management control and security.

INFORMATIVE



With automated monitoring of the testing environment. Helpful on-screen notification is provided advising of any issue impacting a test such as noise, probe or electrode fitment.

NUMERICAL DISPLAY

GROWTH 1.0K					
L1	L2	SIG	NSE	SNR	NSE
70	66.7	99.4	11.5	2.1	9.4
65	64.9	84.8	7.4	3.6	3.8
60	62.8	59.7	8.3	1.7	6.6
55	60.8	54.6	7.2	0.9	6.3
50	58.9	49.8	3.0	-0.4	3.4
45	57.0	44.4	7.1	-1.4	8.5

Numerical table of test data. Signal, noise and SNR.

UNIQUE DISTRACTION DISPLAY

When conducting challenging paediatric OAE assessments, the Otoport's has 6 visual distraction displays that help to keep the child quiet and compliant. The child is encouraged to remain quiet as they watch the onscreen cartoon gradually fill with colour. If noise is detected during the test, the colours quickly fade and return when the child settles, engaging the child by positive reinforcement.



SCANNING

Built in QR/Barcode reader. Effortlessly scan patient details for easy data input or to search existing patient records**.

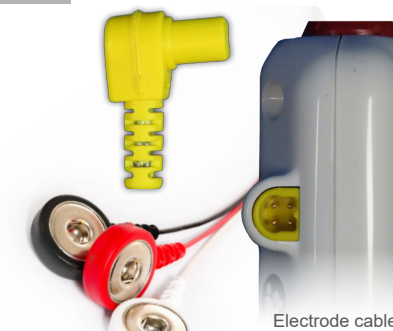
Scan user details for login access.

To upgrade Otoport or to tailor the test mode for specific applications, simply scan a different QR code licence***. With the Otoport you are not limited to one installation.



Easy push pull probe connection. Choice Single or dual probe testing

CONNECTIONS



Electrode cable



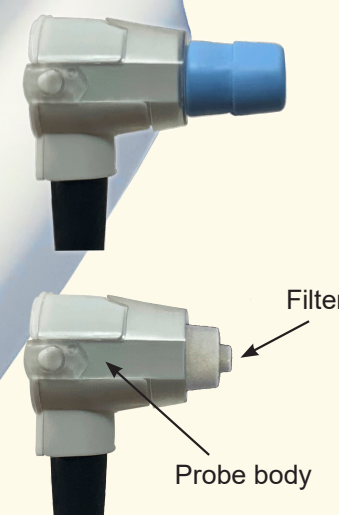
Transfer data to PC via Bluetooth® or wired connection.

PROBE & TIPS

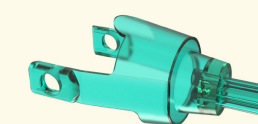
The Otodynamics XPD probe is designed to make daily maintenance and cleaning simple and quick. The new TIP HOLDER is fitted over the probe body and locates precisely with the sound ports when the TIP HOLDER tabs are clicked securely on the probe body.

OTOLINK PC DATA MANAGEMENT SUITE

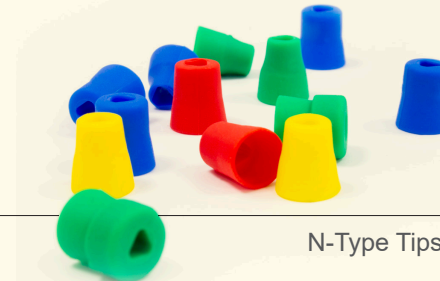
Download test results wirelessly or via USB from the Otoport or when docked in the docking station. Test details can be quickly reviewed, printed and archived. Printing reports directly to a PDF file is available. Data can be exported, for example, to OZ, HiTrack, GDT, Noah** or as CSV file. Patient Work Lists can be uploaded to the Otoport, assisting with managing workloads in busy environments. Otolink also provides access to firmware and application updates from Otodynamics via the internet. Compatible with Windows 10 and 11.



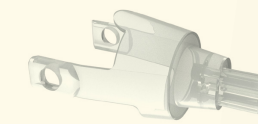
The XPD probe body benefits from the inclusion of an internal filter that fully protects the microphone and loudspeaker ports.



Screening - Tip holder



N-Type Tips



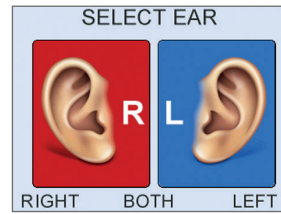
General - Tip holder



R-Type Tips

* dependent on Otoport device.
 ** Hospital QR and barcoded IDs vary. The specification of your facilities QR/Barcode format is required to confirm compatibility.
 *** additional option.

ADDITIONAL OPTIONS for your Otoport



ADD BINAURAL TEST
Seamless testing both ears reduces patient disturbance.



ADD MINI PRINTER
Wireless, compact, fast print time, numerical and band pass data. Battery powered.

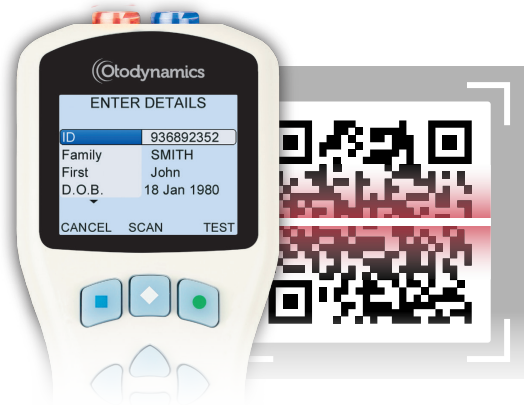


Noah 4

ADD NOAH
To the Otolink PC Data Management.



ADD CARRY CASE
To store and transport the Otoport and all related items.



ADD SCANNER

Built in QR/Barcode reader. Effortlessly scan patient details for easy data input or to search existing patient records*.

Scan user details for login access. To upgrade Otoport or to tailor the test mode for specific applications, simply scan a different QR code licence. With the Otoport you are not limited to one installation***.



Otoport

WHAT'S INCLUDED

Otoport

2 YEARS

INSTRUMENT WARRANTY

- OAE probe with cable clip
- Probe test cavity
- USB download cable
- Docking station
- Sample ear tip pack
- Sample infection control sleeve
- Otolink PC software
- Electrode Cable (with ABR option)

QUICK LOOK Otoport



LITE



FLEXI



ADVANCE

APPLICATION PACKS

NEWBORN SCREENING
PAEDIATRIC SCREENING
CLINICAL AUDIOLOGY
RESEARCH

	DPOAE	DPOAE	DPOAE
TEST CONFIGURABILITY	11 Parameters, 1 Protocol	20 Parameters, 4 Protocols	24 Parameters, 8 Protocols
PRESET FREQUENCIES (kHz)	2, 3, 4, 6 kHz, 4 frequencies	Up to 8 kHz, 13 frequencies	Up to 8kHz, 16 frequencies (audiometric or extract values)
FREQUENCY RANGE (kHz)	2 - 6 kHz	1 - 8 kHz	0.75 to 8 kHz
FREQUENCY RESOLUTION	Half octave	Up to 4 pts/octave	Up to 100 pts/octave with DP Zoom
FREQUENCY RATIO	1.22 (Fixed)	1.22 (Fixed)	1.22 (Fixed)
STIMULUS LEVELS (dB SPL)	60/55 or 65/50 or 65/55	60/50 to 70/70 (6 Presets)	60/50 to 70/70 (6 Presets) Custom 40 to 75 (Δ1dB)
DISPLAY	Graphic progress indicators / Numeric / Paediatric distraction / Line Graph	Graphic progress indicators / Numeric / Paediatric distraction / Line Graph / Histogram	Graphic progress indicators / Numeric / Paediatric distraction / Line Graph / Histogram
PASS CRITERIA	2Pass on 2, 3 or 4 frequencies	2 to 6 frequencies, 12 frequency DP	1 to 6 DP or 12 freq DP or 10-100% freq. with DP zoom
PASS SNR	6dB (Fixed)	6dB Configurable up to 14dB (Δ1dB) for automation. OFF for clinical evaluation. 3 noise criteria levels	6dB Configurable up to 14dB (Δ1dB) for automation. OFF for clinical evaluation. 3 noise criteria levels
FEATURES	Rapid DPOAE screening mode Interactive Paediatric distraction display Easy-to-use pass/refer result Automatic test progression and interpretation	Extensive configurability including 12 frequency DPOAE Configurable norms Includes all LITE functions Easy switching between applications	DP Zoom to 100pts/octave DP Growth I/O with scissor mode Access to selected research function for IRB approved projects. Multi test macro (4x protocols) Includes all FLEXI functions

	ADD TEOAE or TEOAE only	ADD TEOAE	TEOAE INCLUDED
TEST CONFIGURABILITY	14 Parameters, 1 Protocol	25 Parameters, 2 Protocols	28 Parameters, 2 Protocols
FREQUENCY RANGE (kHz)	1, 1.5, 2, 3, 4 kHz	1, 1.5, 2, 3, 4, 6 kHz	1, 1.5, 2, 3, 4, 6 kHz
FREQUENCY RESOLUTION	Half octave bandwidth	Half octave bandwidth	Half octave bandwidth
STIMULUS LEVELS (dB SPL _{pe})	Fixed 84 dB SPL _{pe}	60 to 90 dB SPL _{pe} (Δ1dB)	60 to 90 dB SPL _{pe} (Δ1dB)
DISPLAY	Graphic progress indicators / Numeric / Paediatric distraction / Histogram	Graphic progress indicators / Numeric / Paediatric Distraction / Histogram / TE Waveform	Graphic progress indicators / Numeric / Paediatric Distraction / Histogram / TE Waveform / high res TE spectrum / Stimulus Waveform & Spectrum
PASS CRITERIA	Customisable SNR in any of 2, 3, or 4 half octave bands, or wide / narrow bands	Customisable SNR in any of 1 to 5 half octave bands	Customisable SNR in any of 1 to 5 half octave bands
PASS SNR (dB)	6dB (Fixed)	6dB recommended variable up to 14dB (Δ1dB)	6dB recommended variable up to 14dB (Δ1dB)
FEATURES	Gold standard TEOAE Quickscreen Interactive Paediatric distraction display Easy-to-use pass/refer result Automatic test progress and interpretation	Up to 6kHz with configurable norms Choice of response window Easy access to all Otoport LITE features with additional protocol.	Access to Otoport FLEXI features

	ADD AABR or AABR only	ADD AABR	ADD AABR
TEST CONFIGURABILITY	8 Parameters, 1 Protocol	11 Parameters, 2 Protocols	16 Parameters, 2 Protocols
STIMULUS LEVELS (dBnHL)	30 to 45 (Δ1dB) (up to 40 with earcups)	30 to 45 (Δ1dB) (up to 40 with earcups)**	30 to 45 (Δ1dB) (up to 40 with earcups)**
STIMULUS TYPE	Chirp	Chirp	Chirp and Click
FEATURES	Superior pretest environment, with power-line & individual impedance analysis. Fast pass/refer result Choice in stim delivery ear cup/insert	Real time ABR waveform view ** 45 - 60 dBnHL insert only for training Includes all LITE functions. Easy switching between applications with additional protocol.	Real time ABR waveform view ** 45 to 60 dBnHL insert only for training Extendable FSP for AABR waveform capture Easy access to all Otoport FLEXI features

ADDITIONAL OPTIONS

	LITE	FLEXI	ADVANCE
Wireless Module	INCLUDED	INCLUDED	INCLUDED
Docking Station	INCLUDED	INCLUDED	INCLUDED
Integral Barcode / QR Scanner	OPTION	OPTION	OPTION
Add Binaural Testing	OPTION	OPTION	OPTION
Wireless Printer	OPTION	OPTION	OPTION
Add Carry Case from	OPTION	OPTION	OPTION

*** subject to advance information of facility's QR specification - charges apply

NEW



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