The next generation automated, all-in-one hearing screener

▶ Compact, handheld multi-modality hearing screener

▶ Incorporates TEOAE, DPOAE and ABR capabilities

▶ Clinically proven algorithms

Device shown actual size.

Multiple screening configurations. One compact device.

The all new Echo-Screen III hearing screener combines advanced capabilities never before available in a single device. This versatile system uses the same proven and trusted algorithms with automated, pre-set screening parameters that have been used in millions of screenings[1], so you can feel confident in the quality of your results.

The Echo-Screen III device is available in any combination of modalities – TEOAE, DPOAE, and ABR – providing all the screening tools you need at your fingertips. Modalities are field upgradeable in moments should you decide to expand your options at a later date.

The trusted technology you know from the past, now available in a device ahead of its time.

Integrated Barcode Scanner

Integrated Hook

Probe Test Chamber

ABR Test Fixture

Docking station for charging device/spare battery and data transfer

Comprehensive Patient Data

DPOAE Start Screening

TEOAE Testing in Progress

ABR Screening Result

Flexible data entry, expanded input options and seamless data management.

The Echo-Screen III device features both a hard key QWERTY keyboard and a touch-screen, so you can enter data the way you prefer. Integration with audble® Desktop data management software enables configurable, comprehensive data management with tight integration with Microsoft Word® for custom letters and reports, while incorporating Conflict Resolution to assist in identifying and correcting data entry errors.

Integrated

▸ Fully automated results with standardized, pre-set screening parameters

- Automatic pass/refer results that require no interpretation
- Clinically proven algorithms utilizing binomial statistics for optimal accuracy

▸ Artifact rejection system distinguishes between external noise and patient response

▸ Seamless integration with audble Desktop data management software (included at no additional charge) for planning, data reporting and device management

audble Data Management

Versatile

▸ Incorporates multiple screening capabilities:

- Auditory Brainstem Response (ABR) for detecting auditory neuropathy in newborns
- Transient Evoked Otoacoustic Emissions (TEOAE) for detecting even mild hearing loss
- Distortion Product Otoacoustic Emissions (DPOAE) for frequency-specific screening
- Screening modalities are user upgradeable in just minutes

▸ Data entry via hard-key QWERTY keyboard or touch-screen interface

▸ Choice of CHIRP or click stimulus at multiple levels provides additional screening and research options

▸ Fully configurable for simplified operation or comprehensive data capture

▸ Appropriate for patients of all ages

Convenient

▸ Docking station enables data transfer, charging of the device and spare battery simultaneously and includes integrated ABR test kit

▸ Compatible with Natus Flexicouplers®, Jelly Tabs™ and Ear Tips

▸ Integrated hook for hanging on a bassinet or for use at a comfortable angle when placed on flat surfaces

▸ Integrated barcode scanner (optional)

▸ Wireless Bluetooth® label printing (optional)

▸ Built-in OAE test chamber

Ordering Information

ITEM	PART NUMBER	
	w/ Barcode	w/o Barcode
Echo-Screen III PRO Hearing Screener TEOAE set	013500	013510
Echo-Screen III PRO Hearing Screener DPOAE set	013501	013511
Echo-Screen III PRO Hearing Screener ABR set	013502	013512
Echo-Screen III PRO Hearing Screener TEOAE & DPOAE set	013503	013513
Echo-Screen III PRO Hearing Screener TEOAE & ABR set	013504	013514
Echo-Screen III PRO Hearing Screener DPOAE & ABR set	013505	013515
Echo-Screen III PRO Hearing Screener TEOAE, DPOAE & ABR set	013506	013516

Set contents: Device with integrated hook, travel/storage case, docking station with 2 rechargeable batteries, integrated barcode reader (optional), OAE probe, accessory ear tip box, USB cables. Includes audble Desktop PC-based data management software. Printer optional. ATA cable included when ordered with a set including ABR.

Natus-approved Supplies and Accessories

ITEM	PART NUMBER	ITEM	PART NUMBER
OAE Ear Tips		**Accessories**	
OAE Jumbo Tip - qty 20	203200	Probe nozzles (for use with p/n 012625) – 5 nozzles	013570
OAE Jumbo Tip - qty 100	203210	OAE probe	012625
OAE Adult Foam Tip - qty 20	203202	ATA ABR cable - 4 ft.	010999
OAE Adult Foam Tip - qty 100	203212	PCA electrode cable - 4 ft.	009149
OAE Pediatric Foam Tip - qty 20	203201	Wireless label printer	011046
OAE Pediatric Foam Tip - qty 100	203211	w/ power supply, case, shoulder strap, battery	
OAE 6mm Blue Tip - qty 20	203333	Barcode reader retrofit (factory installed)	013561
OAE 6mm Blue Tip - qty 100	203353	USB A to Micro B 6' 6"	011029
OAE Tree Tip - qty 20	203208	High integrity data cable	
OAE Tree Tip - qty 100	203218		
OAE Preemie Tree Tip - qty 20	203209	**Modality upgrades**	
OAE Preemie Tree Tip - qty 100	203219	DPOAE upgrade	013558
ABR Supplies		TEOAE upgrade	013559
ALGO® PAK supplies - 36 sets/box	040546	ABR upgrade (includes PCA and ATA cables, sample supplies)	013560
VALU-PAK supplies - 288/sets/box	040670		
(Both ALGO PAK and VALU-PAK include Flexicoupler® earphones and Jelly-Tab™ electrodes)		**Data Management Software**	
Jelly-Tab electrodes - 40 triplets (120/box)	040587	audble Desktop	012257
Skin Prep Supplies		**User Documentation**	
NuPrep® skin prep gel 3 4-oz tubes	102566N	Echo-Screen III Reference Guide (CD)	011109
Wet prep pads - qty 200	109084		
Printer Supplies			
Printer labels, roll of 2"x4" labels (66 labels/roll)	011529		

Bluetooth Wireless Label Printer

ABR Supplies

Technical Specifications

GENERAL

Device dimensions (L x W x H)	208.28 x 119.38 x 40.64 mm (8.20 x 4.70 x 1.60 inches)
Device weight	453.59 g (16 oz) excluding battery 576.06 g (20.32 oz) including battery
Docking station dimensions (L x W x H)	245.11 x 121.92 x 76.2 mm (9.65 x 4.80 x 3.00 inches)
Docking station weight	567 g (20 oz)
Test modalities	TEOAE, DPOAE, DPOAE+ and ABR
Patient storage capacity	300 patients
Test storage capacity	2000 test results
Power	Internal battery powered - rechargeable and user changeable

DISPLAY

Type	TFT Color LCD
Screen size	4.3" (10.9 cm) diagonal
Resolution	480 (H) x 272 (V) pixels
Active area	95.04 mm (H) x 53.856 mm (V)
Backlight	LED, dimmable
Touchscreen	Projected capacitive (works with or without gloves)
Touchscreen construction	Glass sensor plus cover glass, optically bonded
Touch input type	Finger or minimum 7 mm diameter conductive stylus

BATTERY

Type	Rechargeable Li-ion 3.65 V, 5300mAh (nominal)
Battery level indicator	5-step battery level indicator (on screen)
Estimated battery life[1]	40 hearing screening tests or 16 hours of continuous use
Certifications	UN 38.3, UL1642, IEC 62133, Directive 2006/66/EC RoHS 2002/95/EC *[1]Actual results may vary based on device configuration and screening modality.*
AC adapter	100-240 VAC, 50-60 Hz, 0.6A, OUTPUT: +5V, 3.0 A
Certification	IEC 60601-1
Battery charge time	4.5 hours to 100%
AC adapter kit	North America/Japan, Australia, UK, EU, Korea, Argentina, and China

PC INTERFACE

Type	USB 2.0
Connector	Micro USB type AB
Max cable length	2 m (6 ft. 6 inches)

LABEL PRINTER (OPTIONAL)

Type	P/N 011046, Natus supplied battery powered label printer
Interface	Bluetooth (wireless)

BARCODE READER (OPTIONAL)

Imager type	CMOS
Scan angle	38.9 deg. (Horizontal), 25.4 deg. (Vertical)
Optical Resolution	752 (H) x 480 (V) pixels, 256 gray levels
Symbologies	Code 128 enabled, Code 39, Code 93 and Interleaved 2 of 5 capable

NOTE: Please check that your hearing program supports one of the symbologies listed above before ordering this option.

DOCKING STATION

PC Interface	USB 2.0, micro USB type AB
Battery charging	Built in spare battery charger
Battery charge time	4.5 hours to 100%
AC adapter	100-240 VAC, 50-60 Hz, 0.6A, OUTPUT: +5V, 3.0 A
Equipment check	Integrated ABR patient cable test fixture
Docking interface connector	Mill Max 12-pin interconnect header, gold plated, recessed

ENVIRONMENTAL

Operating temperature	5 to 38°C (41 to 100.4° F)
Operating relative humidity	5 to 90%, non-condensing
Operating altitude	0 to 3,657.6 M (12,000 ft.)
Shipping/storage temperature	-30 to 55°C (-22 to 131° F)
Shipping relative humidity	5 to 90%, non-condensing

APPLIED STANDARDS

Classification	Type BF, Class II
Patient safety	IEC 60601-1, CAN/CSA C22.2 No. 60601-1 IEC 60601-2-40, IEC 60601-1-4
EMC	IEC 60601-1-2
Other	CE Mark, RoHS Compliant

Note: Specifications are subject to change without notice.

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