



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

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, 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.



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 audible® 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 audible Desktop data management software (included at no additional charge) for planning, data reporting and device 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



audible data management



Ordering Information

Item	Part #	
	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 two rechargeable batteries, integrated barcode reader (optional), OAE probe, accessory ear tip box, USB cables. Includes audible 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 #	Item	Part #
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 w/power supply, case, shoulder strap, battery	011046
OAE pediatric foam tip (Qty 100)	203211	Barcode reader retrofit (factory installed)	013561
OAE 6mm blue tip (Qty 20)	203333	USB A to Micro B 6' 6" High integrity data cable	011029
OAE 6mm blue tip (Qty 100)	203353		
OAE tree tip (Qty 20)	203208		
OAE tree tip (Qty 100)	203218		
OAE preemie tree tip (Qty 20)	203209		
OAE preemie tree tip (Qty 100)	203219		
ABR Supplies		Modality Upgrades	
ALGO® PAK supplies (36/sets/box)	040546	DPOAE upgrade	013558
VALU-PAK supplies (288/sets/box)	040670	TEOAE upgrade	013559
Both ALGO PAK and VALU-PAK include Flexicoupler® earphones and Jelly-Tab™ electrodes		ABR upgrade (includes PCA and ATA cables, sample supplies)	013560
Jelly-Tab electrodes (40 triplets/120/box)	040587		
Printer Supplies		Data Management Software	
Printer labels, roll of 2" x 4" labels (66 labels/roll)	011529	audble Desktop	012257



ABR supplies



Bluetooth wireless label printer

Technical Specifications

General	
Device dimensions (L x W x H)	208.3 x 119.4 x 40.6 mm (8.2 x 4.7 x 1.6 in)
Device weight	454.6 g (16.0 oz) excluding battery; 576.1 g (20.3 oz) including battery
Docking station dimensions (L x W x H)	245.1 x 121.9 x 76.2 mm (9.7 x 4.8 x 3.0 in)
Test modalities	TEOAE, DPOAE, DPOAE+ and ABR
Patient storage capacity	300 patients
Test storage capacity	2000 test results
Power	Battery powered with AC adapter (not for screening)

Display	
Type	TFT Color LCD
Screen size	10.9 cm (4.3 in) diagonal
Resolution	480 (H) x 272 (V) pixels
Active area	95.0 mm (H) x 53.9 mm (V) (3.7 x 2.1 in)
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 7.0 mm (.28 in) 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.

Battery Charger	
AC adapter	100 - 240 VAC, 50 - 60 Hz, 0.6A, OUTPUT: +5V, 3.0 A
Connector	Barrel connector, 3.5 mm OD, 1.1 mm ID
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	2.0 m (6.5 ft)

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° (Horizontal), 25.4° (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° - 40°C (41 - 104° F)
Operating relative humidity	5% - 90% non-condensing
Operating pressure	700 to 1060 hPa
Transport/storage temperature	-30° - 55°C (-22° - 131° F)
Transport/storage relative humidity	5% - 90% non-condensing
Transport/storage pressure	230 to 1060 hPa

Applied Standard	
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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