



Bell Basic - Plus

BASIC DIAGNOSTIC AUDIOMETER

DESCRIPTION

Bell is a basic diagnostic audiometer, capable of performing fast and accurate air and bone conduction threshold examination.

CLASSIFICATION

Basic: EN 60645-1 / ANSI S3.6: Type 4
 Plus: EN 60645-1 / ANSI S3.6: Type 3

AVAILABLE SIGNALS

Stimulus: pure tone, warble tone
 Masking: NBN, WN

SIGNALS SPECIFICATION

Attenuator step: 5 dB
 Presentation: Continuous, Pulsed (0.5, 1 and 2 Hz)
 Warble: 5 Hz sin wave modulating signal

AVAILABLE OUTPUTS AND TRANSDUCERS

AC: TDH-39 / DD45 headphones, HDA-280 headphones or ER-3 / ER-5 insert earphones
 BC: B-71 bone vibrator (Plus only)
 Insert masking earphone: IME-100 (Plus only)

AVAILABLE TESTS

Pure Tone audiometry
 Auto threshold (modified Hughson-Westlake)

PURE TONE: FREQUENCIES AND MAXIMUM LEVELS (dB HL)

Freq. (Hz)	AC TDH-39 DD45	AC ER-3	AC ER-5	BC
125	80	90	90	-
250	100	105	100	45
500	110	110	110	65
750	115	115	120	70
1.000	120	120	120	75
1.500	120	120	120	80
2.000	120	120	115	80
3.000	120	120	115	75
4.000	120	110	110	75
6.000	105	95	100	55
8.000	95	90	90	50

PATIENT – OPERATOR COMMUNICATION

Talk over: built-in or external (optional) microphone
 Patient response trigger

INTERNAL DATABASE

Up to 100 patients both AC and BC thresholds

CALIBRATION

Validity: 12 months
 All the parameters set through the device software

COMPUTER INTERFACE

Connection: USB (driverless)
 Compatible software: - Inventis Daisy with Maestro module
 - Noah with "Maestro for Noah" module

HYBRID TECHNOLOGY

Description: Bell can be controlled either as a stand-alone or as a PC-controlled audiometer
 It requires Daisy or Noah Maestro module

DISPLAY

Shows the complete audiogram during the test
 Type: Graphical colour TFT LCD
 Size: diagonal 4.3", 95 mm x 54 mm
 Resolution: 480 x 272

POWER SUPPLY

Maximum consumption: 9 Watts
 Power supply: 6V, 2A cont., through an external medical grade 100-240 Vac 50/60 Hz power supply

MECHANICS

Size (WxDxH): 32 x 32 x 9 cm / 12.6 x 12.6 x 3.5 in
 Weight: 1.8 Kg / 4.0 lbs

FREIGHT PACKING

Size (WxDxH): 47 x 40 x 35 cm / 18.5 x 15.8 x 13.8 in
 Gross weight: 4.2 Kg / 9.3 lbs

APPLICABLE STANDARDS

Pure tone audiometry: EN 60645-1, Type 3 (Plus) or 4 (Basic)
 Calibration: EN ISO 389-1 (TDH 39), EN ISO 389-2 (ER-3 and ER-5), EN ISO 389-3 (B71), data from the manufacturer (DD-45 and HDA-380 headphones)
 Electrical safety: EN 60601-1, Class I type BF
 EMC: EN 60601-1-2

CE CERTIFICATE

93/42/EEC classification : Class IIa
 Classification rule (Annex IX, 93/42/EEC): 10
 Notified body: TÜV SÜD Product Service GmbH (0123)
 Number of CE certificate: G1 12 09 65346 006

PRODUCT CODES

10143: Bell model Basic – Screening audiometer
 10144: Bell model Plus – Diagnostic audiometer

INCLUDED PARTS

- TDH-39 supra-aural headphones
- B71 bone vibrator (Bell Plus only)
- Patient response switch
- Plastic cover sheet
- Medical grade power supply
- USB connection cable
- User manual
- Inventis Software Suite CD

OPTIONAL ACCESSORIES (with order code)

- 10166: ER-3A insert earphones
- 10833: ER-3C insert earphones
- 10172: ER-5A insert earphones
- 10177: IME-100 insert masking earphone
- 10179: Amplivox Audiocups noise excluding enclosures for TDH-39 / DD45 headphones
- 10180: Cable set for sound booth
- 10182: Soft carrying case
- 10541: Trolley for audiometers / tympanometers

Bell is developed by:

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