



# 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: IEC 60645-1 / ANSI S3.6: Type 4  
 Plus: IEC 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, ER-3 / IP30 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 IP30	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

(\*) Transducer supported but no more available for purchasing

### 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 Maestro

### HYBRID TECHNOLOGY

Description: Bell can be controlled either as a stand-alone or as a PC-controlled audiometer  
 It requires Inventis Maestro software.

### 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

Main unit: 6V, 1.67A  
 External adapter: 100-240Vac 50/60 Hz 0.3-0.1A medical grade responding to IEC 60601-1 standard

### 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: IEC 60645-1, ANSI S3.6  
 Calibration: ISO 389-1 (TDH 39 and DD45), ISO 389-2 (ER-3, IP30, ER-5), ISO 389-3 (B71)  
 Electrical safety: IEC 60601-1, Class I type BF  
 EMC: IEC 60601-1-2

### CE CERTIFICATE

MDR 2017/745/EU Classification: Class IIa  
 Classification rule (Annex VIII, 2017/745): 10  
 Notified body: TÜV SÜD Product Service GmbH (0123)

### PRODUCT CODES

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

### INCLUDED PARTS

- TDH39 or DD45 supra-aural headphones
- B71 bone vibrator (Bell Plus only)
- Patient response switch
- Plastic cover sheet
- Medical grade power supply
- USB connection cable
- User manual

**OPTIONAL PARTS (with order code)**

- 10833: ER-3C insert earphones
- 11748: IP30 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

Bell is developed by:

**INVENTIS S.r.l.**

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