



# Triangle

Portable Screening Audiometer

**DESCRIPTION**

Triangle is a screening audiometer, capable of performing fast and accurate air and bone conduction threshold examination and screening test.

**CLASSIFICATION**

IEC 60645-1 / ANSI S3.6: Type 4

**AVAILABLE SIGNALS**

Stimulus: pure tone, warble tone  
Masking (optional, with "Bone Connectivity" license): NBN, WN

**SIGNALS SPECIFICATION**

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

**AVAILABLE OUTPUTS AND TRANSDUCERS**

AC: DD45 or DD65 headphones, ER-3C insert earphones  
BC: B71 bone vibrator

**AVAILABLE TESTS**

Manual Pure Tone audiometry  
Automatic Pure Tone audiometry (available algorithms: Hughson-Westlake, Quick Search, Fixed Intensity)

**PURE TONE: FREQUENCIES AND MAXIMUM LEVELS (dB HL)**

Frequency (Hz)	AC DD45	AC DD65	AC ER-3C	BC B71
125	65	65	80	-
250	85	80	90	35
500	100	95	100	50
750	100	95	100	55
1.000	100	95	100	60
1.500	100	95	100	60
2.000	100	95	100	60
3.000	100	95	100	60
4.000	100	95	100	60
6.000	95	80	90	40
8.000	85	80	75	35

**PATIENT – OPERATOR COMMUNICATION**

Talk over: built-in microphone  
Patient response trigger

**INTERNAL DATABASE**

Up to 100 patients

**CALIBRATION**

Validity: 12 months

**CONNECTIVITY**

USB driverless connection (opt.)  
Compatible software: Inventis Maestro

**DISPLAY**

Type: Graphical color TFT LCD, capacitive touchscreen  
Size: diagonal 2.8", 43.2 mm x 57.6 mm  
Resolution: 240 x 320 x RGB

**POWER SUPPLY**

Internal battery: Lithium-Ion rechargeable battery  
Battery life: more than 12 hours of continuous use  
Main Unit: 5 Vdc, 1.4 A  
External dedicated USB adapter: 100-240 Vac, 50/60 Hz, 0.3-0.15 A, IEC 60601-1 compliant

**MECHANICS**

Size (WxDxH): 21 x 16 x 4 cm / 8.3 x 6.3 x 1.6 in  
Gross weight: 425 g / 0.94 lbs

**FREIGHT PACKING**

Size (WxDxH): 40 x 30 x 18 cm / 15.8 x 11.8 x 7.1 in  
Gross weight: 2500 g / 5.51 lbs

**APPLICABLE STANDARDS**

Pure tone audiometry: IEC 60645-1, ANSI S3.6  
Calibration: ISO 389-1 (DD45), ISO 389-2 (ER-3C), ISO 389-3 (B71)  
Electrical safety: IEC 60601-1, Class II type B  
EMC: IEC 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]

**PRODUCT CODES**

11689: Triangle - Screening Audiometer. With DD45 headset  
11689-DD65: Triangle - Screening Audiometer. With DD65 headset with noise-excluding enclosures

**INCLUDED PARTS**

- DD45 supra-aural headphones or DD65 circum-aural headphones
- Patient response switch
- Medical grade power supply
- USB connection cable
- Audiogram cards
- User manual
- Soft carrying case

**OPTIONAL ACCESSORIES**

- 10833: ER-3C insert earphones
- 10179: Amplivox Audiocups noise excluding enclosures for TDH-39 / DD45 headphones

**OPTIONAL EXTENSION LICENSES AND PACKAGES**

- 11691: "Computer connectivity" license for Triangle
- 11692: "Bone Conduction" license for Triangle. Does not include the bone transducer
- 11693: "Bone Conduction" license for Triangle with calibrated bone transducer

Triangle is developed by:

**INVENTIS s.r.l.**

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