



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 IP30	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

MDR 2017/745/EU Classification: Class IIa

Classification rule (Annex VIII, 2017/745): 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
- Electronic IFU
- Soft carrying case

OPTIONAL PARTS

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

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:

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