



Trumpet

REAL EAR MEASUREMENT SYSTEM - AUDIOMETER

DESCRIPTION

Trumpet is an advanced and easy-to-use Real Ear Measurement system, capable of performing quick and accurate in-situ measures thanks to its small lightweight probes and its built-in amplified speaker. Trumpet also incorporates a diagnostic audiometer for carrying out air, bone and speech audiometric exams.

PRODUCT CONFIGURATION

Trumpet is available in three configurations:

- Trumpet REM – Real Ear Measurement system
- Trumpet AUD – Diagnostic audiometer
- Trumpet REM & AUD – REM system and audiometer

STANDARDS

Real ear measurement

IEC 61669:2015 / ISO 12124 / ANSI S3.46-2013

Audiometer

EN 60645-1 / ANSI S3.6: Type 2
EN 60645-2 / ANSI S3.6: Type A

AVAILABLE SIGNALS

Real ear measurement

Stimuli: white noise, pink noise, ICRA, ISTS, rainbow passage, real speech, mixed environment sounds (e.g. doorbell, phone ring), frequency lowering-s, frequency lowering-sh

Audiometer

Stimulus: pure tone, warble tone
USB audio for speech audiometry
MIC input for live speech audiometry
Masking: NBN, WN, SN

AVAILABLE OUTPUTS AND TRANSDUCERS

Real ear measurement

In-situ headset
Built-in loudspeaker
Insert earphones for RECD (ER-3)

Audiometer

AC: Headphones (DD45 / TDH-39)
Insert earphones (ER-3)
BC: B-71 bone vibrator
Free field

AVAILABLE TESTS

Real ear measurement

- REUR / REUG - (single and bilateral)
- REAR / REAG - (single and bilateral*)
- REIG - (single and bilateral*)
- REOR / REOG - (single and bilateral)
- MPO - (single and bilateral*)
- Advanced - (single and bilateral*)
- Live speech - (single and bilateral)
- RECD

*: bilateral available only for in-ear measurements

Audiometer

- Pure Tone audiometry (HL and UCL)
- Auto threshold (modified Hughson-Westlake)
- Speech audiometry (SRT, WRS, MCL, and UCL)
- 2 independent channels Master Hearing Aid
- QuickSIN® test (optional)

REM: FREQUENCY, MEASUREMENT AND INTENSITY RANGE

Frequency range: 125 Hz – 12 kHz

Reference microphone measurement range: 40 – 110 dB SPL

Probe microphone measurement range: 40 – 130 dB SPL

Intensity range: 50 – 90 dB SPL

AUDIOMETRIC SIGNALS SPECIFICATION

Attenuator step: 1, 2 and 5 dB

Presentation: Continuous, Pulsed (0.5, 1, 2 Hz and custom)

PURE TONE: FREQUENCIES AND MAXIMUM LEVELS (dB HL)

Freq. (Hz)	AC (*) TDH-39 / DD45	AC (*) ER-3	BC	FF (2) (built-in)	FF (2) (external)
125	80	90	-	60	65
250	100	105	45	75	80
500	110	110	65	85	90
750	115	115	70	85	90
1.000	120	120	75	85	90
1.500	120	120	80	85	90
2.000	120	120	80	85	90
3.000	120	120	75	85	90
4.000	120	110	75	85	90
6.000	105	100	55	85	90
8.000	95	90	50	75	80

(1)The maximum intensities are obtainable only if the audiometer is powered with the mains adapter.

(2)When the device is powered via USB only the FF outputs are disabled

SPEECH AUDIOMETRY: MAXIMUM LEVELS (dB HL)

AC (1) TDH-39 / DD45	AC (1) ER-3	BC	FF (2) (built-in)	FF (2) (external)
100	100	55	70	80

CALIBRATION

Validity: 12 months

COMPUTER INTERFACE

Connection: USB (driverless)

Compatible software: - Inventis Maestro (Noah compatible)



Trumpet

REAL EAR MEASUREMENT SYSTEM - AUDIOMETER

MINIMUM COMPUTER REQUIREMENTS

Processor: Intel® i3 or above
RAM: 4 GB
Operative system: Windows 7 or above, 32 or 64 bits

POWER SUPPLY

Power supply: 15V, 2A cont., through an external medical grade 100-240 Vac 50/60 Hz power supply

MECHANICS

Size (WxDxH): 15.5 x 10 x 24.5 cm / 6.1 x 3.9 x 9.7 in
Weight: 1.5 kg / 3.5 lbs

APPLICABLE STANDARDS

Real ear measurement: IEC 61669:2015 / ISO 12124 / ANSI S3.46-2013

Pure tone audiometry: EN 60645-1, Type 2

Speech audiometry: EN 60645-2, Type A

Calibration: EN ISO 389-1 (TDH 39), EN ISO 389-2 (ER-3C), EN ISO 389-3 (B71), EN ISO 389-7 (FF), data from the manufacturer (DD45)

Electrical safety: EN 60601-1

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

INCLUDED PARTS

Real ear measurement (Trumpet REM)

- In-situ headset
- Probe kit (tubes, O-rings, probe tube guides)
- Monitor headset with boom microphone
- Headphones for counselling
- Inventis Software Suite
- User manual
- Medical grade power supply
- USB connection cable

Audiometer (Trumpet AUD)

- DD45 supra-aural headphones
- B71 bone vibrator
- Patient response switch
- Clip-on microphone for patient-to-operator communication
- Inventis Software Suite
- Medical grade power supply
- USB connection cable

OPTIONAL ACCESSORIES (with order code)

- 10833: ER-3C insert earphones
- 10247: TDH-39 supra-aural headphones
- 10533: QuickSIN™ test license
- 10938: AUD license for Trumpet REM – Includes the transducer set
- 10968: REM license for Trumpet AUD – Includes the REM probes

Trumpet is developed by:

INVENTIS s.r.l.

CORSO STATI UNITI, 1/3

35127 PADOVA – ITALY

PHONE: +39.049.8962 844

FAX: +39.049.8966 343

info@inventis.it

www.inventis.it

Follow us on Twitter

<http://twitter.com/inventissrl>



The Inventis Quality System complies with ISO 9001 and ISO 13485 standards.

Inventis® is a registered trademark of Inventis s.r.l.