

r17a HDA 280

SCREENING PORTABLE
TOUCH SCREEN AUDIOMETER

PRODUCT SPECIFICATIONS



GENERAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

- L x W x H: 7.09" x 5.31" x 1.6"
- Net weight: .99 lb.
- Body material: self-extinguishing ABS

TEST TYPES

- Pure Tone test, Speech Test (performed with on-board recorded speech material), Autothreshold, Resonance Play Audiometry (optional)

DISPLAY

- LCD touch screen
- 800 x 480 @ 133 ppi, 262k colors

USER INTERFACE

- Intuitive icon system

PC INTERFACE

- MDS* software with reporting and printing features
- Data transfer via Bluetooth® 2.1 and 4.0

USB PORT

- Nr. 1 USB host type A (pen drive connection for software upgrade)
- Nr. 1 mini USB slave (for patient response connection)

MICROPROCESSOR

- Operative system: Microsoft® Windows® Embedded Compact
- High performance: CPU ARM® dual core @ 1Ghz
- Energy efficient, low power: 0.8W typ. Fast boot: <6 sec.

POWER

POWER SUPPLY

- Built-in 3.6V / 3.1 Ah rechargeable lithium-ion battery
- External medical power supply/charger: Input 100-240Vac / 0.3A – 50/60Hz; Output +5Vdc / 2A

CONSUMPTION (WITH RECHARGEABLE BATTERY)

- Up to 3 hours of testing working on speech test modality
- Charge time with external medical power supply: up to 80% in 2 hours

ENVIRONMENTAL

OPERATING ENVIRONMENT

- Storage: -4°F up to 122° F
- Operating: 59°F up to 95°F
- Humidity: up to 90% (non-condensing)
- Ambient pressure: from 700hPa up to 1060hPa

AUDIOMETRY OPERATING SPECIFICATIONS

RANGE

- AC: 125 - 12500 Hz
- BC: 250 - 6000 Hz

ACCURACY

- Frequency < 0.5%
- Distortion < 1%
- Crosstalk > 70dB
- Attenuator linearity 1dB per 5dB step, max 3dB whole range
- Range stimuli level -10 up to 110dB HL

TYPE OF SIGNALS

- Puretone: sine wave from 125 to 12.5Khz
- Warble: +/- 5% frequency sine wave modulated, modulation: sine wave 5Hz
- Narrow band noise: 24dB/oct filtered noise
- Speech noise: 1khz 12dB/oct filtered noise
- White noise
- Speech material recorded on SD card NU-6
- On/Off rise – fall time: 40msec

OUTPUT TRANSDUCERS

- ACR, ACL: HDA280 headphones
- BC: B71W

STIMULUS PRESENTATION MODALITY

- Presentation: Normal
- Modality: Steady, Pulsed (rate 2Hz)
- dB step variation: 1dB, 2dB, 5dB

QUALITY SYSTEM

Manufactured, designed, and developed under an ISO 13485, ISO 9001 certified quality system. Medical CE marks and FDA approval.

COMPLIANCE/REGULATORY STANDARDS

Certifying body: IMQ S.p.A. Istituto Italiano Del Marchio Del Qualita

- MDD 93/42/EEC and update 2007/47/CEE: Class IIa (as referred to in Annex IX, rule 10)
- Safety: IEC 60601-1, 3rd edition, Class II Type BF
- EMC: IEC 60601-2
- Audiometer: IEC 60645-1 and ANSI S3.6: Type 3 IEC 60645-2 (only for the functions regarding the speech test; the device is not an A or B model)

STANDARD ACCESSORIES

- DHA280 headphones
- B71W bone conductor
- Built-in talk-over microphone for patient communication
- Patient response push button
- MDS software*
- Medical power supply (100Vac - 240Vac)
- Durable luggage-grade padded carrying case
- Charging cradle
- USB pen drive
- Touch screen pen
- Bluetooth 4.0 adapter

OPTIONAL

- External USB keyboard
- IP30 insert headphones
- Pediatric headset (AC or BC)
- RE-Play Play Audiometry for Children
- Wallmount kit

*Resonance Management Data Suite

Exclusive U.S. Distributor:

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