r27a LITE

2 CHANNEL
DIAGNOSTIC AUDIOMETER

RoHS2 COMPLIANT

PRODUCT SPECIFICATIONS

Please contact Resonance should you have any questions:
support@resonance-audiology.com

GENERAL SPECIFICATIONS

DIMENSIONS AND WEIGHT
- L x W x H: 370 x290 x180 mm
- Net weight: 3.5 kg

TEST TYPES
Pure Tone test, Autothreshold, Stenger, GAP, DLF (Difference Limen for Frequency), SISI (available on request)

DISPLAY
- 7" TFT Color display

USER INTERFACE
- Multilingual

PRINTER
- Directprintputoption onselectedprinters

REPORTS
- .pdf report created directly from the device and stored on USB Pen drive with possibility to add patient data and tests comments via the USB Keyboard (optional)
- Data transfer to PC using Resonance Management Data Suite

DATA TRANSFER TO PC
- Via cable through USB port

COMMUNICATION PORT
- Nr.1 USB host type A
- Nr.1 USB slave type B

WINDOWS® COMPATIBLE SOFTWARE
- Resonance MDS Management Data Suite

POWER

POWER SUPPLY
- 110 -240 V AC 50/60 Hz 40 VA
- Fuses: 2 x T 1 A L 250 V

CONSUMPTION
- Max current: 0.15 A
- Power consumption: 40 VA

ENVIRONMENTAL

OPERATING ENVIRONMENT
- Storage: -20° C up to +50° C
- Operating: +15° C up to +35° C
- Humidity: up to 90%, (non-condensing)
- Ambient pressure: from 700 hPa up to 1060 hPa

AUDIOMETRY OPERATING SPECIFICATIONS

RANGE
- Frequency range:
  125 - 8000 Hz (with DD45)
  250 - 8000 Hz (with B71W)
- Range stimuli level -10 up to 120 dB HL

ACCURACY
- Frequency < 0.5%
- Distortion < 1%
- Attenuator linearity 1 dB per 5 dB step, max 3 dB whole range
- Bone conduction -10 up to 80 dB

TYPE OF SIGNALS
- Pure tone: sine wave 125 to 8KHz signal
- Warble: ± 5% frequency sine wave modulated, modulation: sine wave 5 Hz
- Narrow band noise: 24 dB/oct filtered noise
- Speech noise: 1 khz 12 dB/oct filtered noise
- White noise
- External signal
- External mike
- On/Off rise – fall time: 40msec

OUTPUT TRANSDUCERS
- ACR, ACL: 10 ohm DD45 matched pair earphone IP30 Insert earphones (optional)
- BC: B71W Radioear
- INSERT: Insert transducer (optional)
- Free field output: 600 ohm impedance

STIMULUS PRESENTATION MODALITY
- Presentation: Normal, Reverse, Extended (present tone for 1 second from 20 dB below the maximum level)
- Modality: Continuous, Pulsed (rate 0.5, 1 and 2 Hz)

QUALITY SYSTEM

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

COMPLIANCE/REGULATORY STANDARDS

Designed, tested and manufactured to meet the European and International Standards:

- MDD 93/42/EEC and its revised versions: Class IIa (as referred to in Annex IX, rule 10 of said MDD 93/42 EEC)
- Safety: IEC 60601-1, 3rd edition, Class 1 Type B
- EMC: IEC 60601-1-2
- Audiometer: to IEC 60645-1; IEC 60645-2 and ANSI S3.6, Type 2A

STANDARD ACCESSORIES

- DD45 headset for audiometry testing
- B71W bone conductor
- Patient microphone (talk back)
- Internal speaker as monitor use
- Built-in talk forward microphone
- Patient response pushbutton
- Power supply cable (110 – 220 V)
- Device dust cover
- Multilingual Quick User's Handbook
- Pen-drive
- Resonance® MDS software with NoAH® module included (demo version)
- Spare fuse

OPTIONALS

- USB external keyboard
- Goose-neck microphone
- Insert-Transducer (for masking)
- Pediatric Headset (AC or BC)
- ADC Audiocups Noise reducing headset enclosures
- IP30 insert earphones
- Carrying bag
- MDS software license
- Silent cabin cables
- Free field loudspeaker
- Operator headset with microphone and speaker (talk over and monitor)
- Additional patient response pushbutton

Datasheet: REV MARCH 2020