





PRODUCT SPECIFICATIONS



For any additional information please contact: support@resonance-audiology.com

GENERAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

- L x W x H: 180 x 135 x 41 mm
- Net weight: 450 g
- · Case: self-extinguish ABS UL 94 VO

DISPLAY

- 7" TFT resistive touch screen display
- 800 by 480 resolution at 133 pixels per inch (ppi) 262K colors

DATA TRANSFER

- · Bluetooth 2.1
- Via USB cable

COMMUNICATION PORT

- No. 1 USB slave
- No. 1 USB host

COMPLIANCE/REGULATORY STANDARDS

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

EN 60645-6 Safety: EN 60601-1 EMC: EN 60601-1-2

ENVIRONMENTAL CONDITIONS

OPERATING ENVIRONMENT

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

POWER

POWER SUPPLY

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

BATTERY LIFE (RECHARGEABLE BATTERY)

- Up to 3 hours of continuous testing
- Charge time with external medical power supply: 80% in 2 hours. Charging cradle provided as a standard.



TEOAE

SAMPLE RATE

• 24 bit 44,1ksps

STIMULUS RATE

• 66 Hz

WINDOW OF ANALYSIS

• 512 samples (3 - 15 ms)

STIMULATION

• non-linear click

ACQUISITION BANDWIDTH

• from 750 Hz to 5 kHz

ARTEFACT LEVEL

• from 20 to 60 dB SPL

TEOAE PROTOCOLS

Туре	Frequencies	Averaging Time (s)	Pass SNR (dB)	Passing frequencies for test Pass
Screening	1, 1.5, 2, 3, 4 kHz	30 - 75	3, 6, 9, or 12	2-5
Diagnostic	1,1.5,2,3,4 kHz	30 - 75	3, 6, 9, or 12	2-5

3 configurable protocols Stimulus intensity: 70 - 90 dB pe SPL

DPOAE

FREQUENCY RATIO F2/F1

ARTEFACT LEVEL

• from 0 to 40 dB SPL

DPOAE PROTOCOLS

Туре	Available frequencies	F2 Frequencies (kHz)	Pass SNR (dB)	Passing frequencies for test Pass
Screening	2 - 6	1.5, 2, 2,5, 3, 3.3, 4, 4.5, 5, 5.6, 6	3, 6, 9 or 12	2-6
Diagnostic	Up to 15	1.5, 2, 2.5, 3, 3.3, 4, 4.5, 5, 5.6, 6 6.6, 7, 8, 10, 12 Selectable by the user	3, 6, 9 or 12	2 - 15

3 configurable protocols L1/L2: Stimulus level F2

Average Time (per frequency): Automatic or 2, 4, 8, 16s





MEASUREMENT TYPES

Screening and Diagnostic Testing

TEOAE

• 0.7 to 5 kHz, Stimulus 70-90 dB pe SPL

DPOAE

• 1.5 to 12 kHz, 30 to 70 dB SPL

PROBE

- Connector: LEMO push-pull, circular
- · Description: Integrated microphone and receivers in probe head
 - Calibration data stored in the probe
- · Cable length: 130 cm
- · Weight: 5 g
- Ear tips: Disposable multi-size Resonance ear tips

CRADLE

For battery charging and desktop use

DATA

Over 1,000 tests in the unit

Internal database: Available and with possibility

of reviewing test results

Transfer to PC: via Bluetooth 2.1

via USB cable

STANDARD ACCESSORIES

- · OAE Probe
- Medical Power supply
- · MDS Software suite
- Disposable Ear Tips starter kit
- · Calibration Cavity
- · User's Manual
- Carrying bag
- · Pen Drive
- · Touch screen pen

OPTIONALS

- Wi-Fi printer
- External keyboard
- RE-VO USB Video otoscope
- Wallmount kit

r14o CONFIGURATION OVERVIEW

The r14o is available in 5 different configurations. The available protocols for each configuration are summarized below:

	r14o TEOAE Screener	r14o DPOAE Screener	r14o TEOAE Advanced Screener	r14o DPOAE Advanced Screener	r14o TE/DPOAE Advanced Screener
SKU	4300103010	4300103015	4300103030	4300103040	4300103050
TEOAE SCREENING	•	•	•		•
TEOAE DIAGNOSTIC			•		•
DPOAE SCREENING				•	•
DPOAE DIAGNOSTIC				•	•