

## ERO•SCAN

### For OAE Screening and Diagnostic Testing

#### Frequency Specific OAE Evaluation

The ERO•SCAN for frequency specific TEOAE and / or DPOAE comes with a real plus: The sharp organic LED display allows direct evaluation via SNR and value graph, thus making the handling even more comfortable. Appropriate to your needs you can choose between the ERO•SCAN with screening or diagnostic functions.

#### ERO•SCAN with Screening Function

The ERO•SCAN with screening functions comes with automated evaluation and is the ideal solution for screening newborns, infants, pre-school and nursery children.

#### ERO•SCAN with Diagnostic Function

The ERO•SCAN with diagnostic functions offers advanced applications – suitable for pediatricians, occupational health services and audiologists. Customizable protocol parameters and an extended frequency range makes it ideal for preschool screening and testing people of all ages.

#### Features at a Glance

- Screening and diagnostic measurements of TEOAE and / or DPOAE
- Fast automatic testing with PASS or REFER outcome
- Sharp, colored OLED display
- Graphical result display
- Diagnostic version with customizable protocols and DPOAE testing up to 12 kHz
- High noise immunity for operation in normal clinical environment
- Small and lightweight ear probe
- Optional with MAICO Sessions PC Software, OtoAccess® Database, Noah Database, HearSIM™ PC Software
- Optional wireless printer



## Technical Data

### Otoacoustic Emissions

|                          |                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement Type         | DPOAE (Distortion Product Otoacoustic Emissions)<br>TEOAE (Transient Evoked Otoacoustic Emissions)                                                           |
| Frequency Range          | Screening Version<br>DPOAE: 2.0 kHz to 5.0 kHz<br>TEOAE: 1.5 kHz to 4.0 kHz<br>Diagnostic Version<br>DPOAE: 1.5 kHz to 12.0 kHz<br>TEOAE: 0.7 kHz to 4.0 kHz |
| Stimulus Intensity Range | DPOAE: 40 dB SPL to 70 dB SPL<br>TEOAE: 80 dB SPL peak equivalent ( $\pm 3$ dB)                                                                              |

### Device General

|              |                                                                                                                    |
|--------------|--------------------------------------------------------------------------------------------------------------------|
| Dimensions   | W x D x H: 6.6 cm x 3.1 cm x 14.5 cm                                                                               |
| Weight       | 176 g                                                                                                              |
| Display      | Color OLED display                                                                                                 |
| Languages    | English, Arabic, Chinese, French, German, Italian, Japanese, Korean, Portuguese, Polish, Russian, Spanish, Turkish |
| Storage      | Maximum 500 tests                                                                                                  |
| PC Interface | Micro USB                                                                                                          |
| Battery Life | 1000 tests per charge,<br>minimum 15 hours on-time                                                                 |
| Power Supply | Output: 5.0 V DC, 1.6 A<br>Input: 100 V - 240 V AC, 50/60 Hz, 400 mA                                               |

### Micro-Probe Specifications

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| Microphone System Noise | -20 dB SPL at 2 kHz (1 Hz bandwidth)/<br>-13 dB SPL at 1 kHz (1 Hz bandwidth) |
| Cable Length            | 1.10 m                                                                        |
| Weight                  | 28 g                                                                          |

### Optional Printer

|               |                                      |
|---------------|--------------------------------------|
| Type          | HM-E200, 2" portable thermal printer |
| Printing Time | <5 seconds per test result           |
| Power Supply  | 100 - 240 VAC, 50/60 Hz              |
| Dimensions    | W x D x H: 8.5 cm x 13 cm x 5 cm     |
| Weight        | 234 g                                |
| Data Transfer | Wireless                             |

### Standards

|             |                                                                |
|-------------|----------------------------------------------------------------|
| OAE         | IEC 60645-6, Type 2                                            |
| Test Signal | IEC 60645-1, IEC 60645-3                                       |
| Safety      | IEC 60601-1, Type B                                            |
| EMC         | IEC 60601-1-2                                                  |
| CE 0123     | according to Medical Device Regulation (EU) 2017/745, Class II |

### Standard Components

ERO•SCAN device with rechargeable battery and probe, eartip box, eartip removal tool, replacement probe tubes, probe tube removal tool, carrying case, power supply

### Optional Components

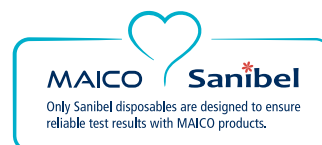
Wireless printer kit HM-E200, infant ear simulator

### Optional Software

MAICO Sessions - Standalone, with OtoAccess® Database or Noah, HearSIM™ with OtoAccess® Database (Screener version only)

### Sanibel

We highly recommend to use Sanibel disposables in order to guarantee optimal test results.



Specifications are subject to change without notice.



ERO•SCAN device



Probe



Eartip box



Carrying case

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