





\* ERO·SCAN®

Webinar

### Agenda



- Introduction of Presenters
- 2. Audiological Background of OAE
- 3. Product Introduction & Main Features
- 4. Data Management What's New
- 5. Sales Configuration
- 6. Marketing Material



Please mute your microphone!
Remark: This webinar will be recorded

#### 1. Introduction of Presenter





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Manager Application and Audiological Services

Area Sales Manager





# 2. Audiological Background of OAE

### 2. Audiological Background of OAE

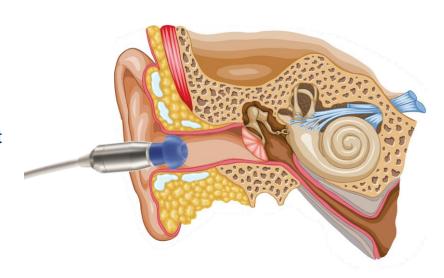


#### What are Otoacoustic Emissions?

- Otoacoustic Emissions are soft sounds returned by the inner ear as a response to a sound event
- These returned sounds can be measured with highly sensitive microphones
- OAEs only occur in a normal functioning inner ear
- If there is damage to inner or middle ear, OAEs can not be measured

#### What is an Otoacoustic emissions (OAE) test?

- Objective evaluation of the inner ear function
- Quick measurement with easy to interpret PASS/REFER result



### 2. Audiological Background of OAE



#### Two types of evoked OAEs are relevant for hearing testing

#### **Transient-evoked OAEs (TEOAEs)**

- Evoked using a click stimulus with broad frequency range
- Represent the average activity in a range of the cochlea (frequency band)

#### **Distortion product OAEs (DPOAEs)**

- Evoked using a pair of primary tones
- Represent the activity at a specific point in the cochlea (frequency specific)
- DPOAE perform better in noisy environments

#### **Newborn Hearing Screening:**

- TEOAE and DPOAE can both be used for NHS
- Sensitivity and specificity are similar





## 3. Product Introduction & Main Features

#### 3. Product Introduction



- Fast automatic OAE screening with Pass/Refer results
- Screening and diagnostic measurements with TEOAE and/or DPOAE
- Designed for testing patients of all ages
- Small, lightweight ear probe
- High noise immunity for operation in normal clinical environment
- Flexible data management solutions
- Wireless printing



#### 3. Main Features - Fast automatic OAE screening



- Comprehensive PASS/REFER result
- PASS will be displayed in green and Refer in orange.
- Non-experts can understand test results easily

#### → Very little training required





### 3. Main Features - Small and Lightweight



- Portable device allows testing at different locations
- Fits into pocket
- Device with probe weighs less then 250 g

#### → Supports convenient and flexible workflow





250 g

### 3. Main Features - One Finger Operation



4 curser buttons that can be operated with one hand

Start screening with 2 button clicks

→ Screening can be performed in no time

→ Very little training required

Start screening



## 3. Main Features - Small, Lightweight and Robust Probe



- Easy handling and probe placement in ear canal
- Probe remains in the ear without holding, avoids noise that interferes with the test

→ Reliable results and confidence in the handling of the device





#### 3. Main Features - Fast Bootup



- Bootup takes less than 3 seconds, screening can be started right away by selecting the test ear
- Time saving and easy operation
- → More time to focus on the patient

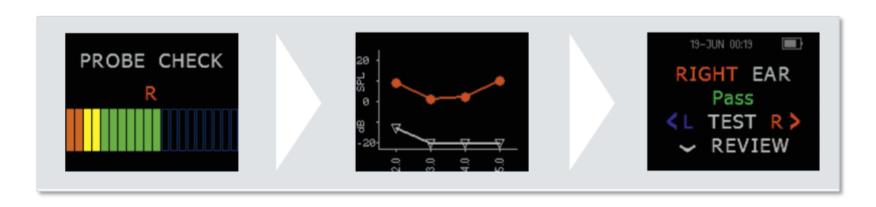


#### 3. Main Features - Automatic Probe Fit Check



- Before an actual OAE measurement is started, the ERO•SCAN® performs a probe fit check
- Test conditions are evaluated
- Only if test conditions are good, the test starts automatically

#### → Guarantee of reliable test results



#### 3. Main Features - Feedback LEDs



- Operator is always informed about the test progress and status
- Charging status is indicated
- → Supports the operator in gaining reliable test results

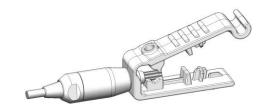


## 3. Main Features — Disposable Probe Tubes



- Disposable probe tube is replaced after every test and gets never blocked
- Dedicated probe tube removal tool to prevent damages of the probe
- → Saves the time needed to clean the probe tip
- → Avoids cross infection
- → More time to focus on the patient and documentation





## 3. Main Features — Wide Range of Sanibel Eartips



- Different sizes and shapes from premee, flanged, up to 15 mm mushroom
- Eartip box with compartments
- Convenient eartip removal tool
- → Ready to test patients of all ages





## 3. Main Features - Wireless Printing



- Battery powered and ready to go
- Results can be printed immediately by a wireless thermal printer
- → Support of convenient and fast documentation

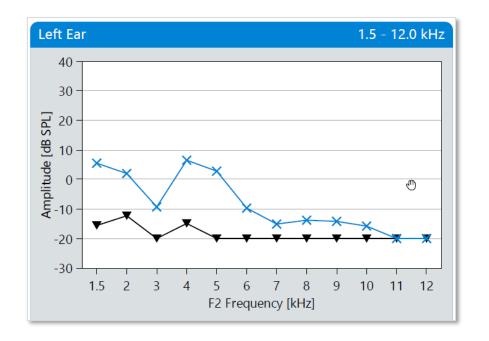


## 3. Main Features - High Frequency Measurement



- High frequency DPOAEs up to 12 kHz
- Auditory Monitoring
  - of ototoxic medication
  - noise-induced hearing loss

#### → Wide range of applications







4. Data Management - what's New

### 4. New Firmware Features (Version 113.05)





Storage Capacity

Now: 500 patients Before: 250 2

**Setting for Reverse Frequency Measurement** 

From high frequencies to low frequencies

or

From low frequencies to high frequencies

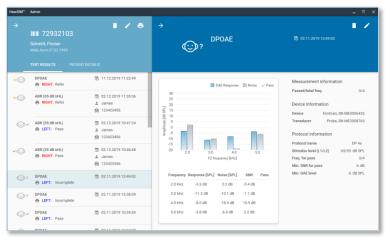
3

**Setting for Auto-Stop** 

Stop measurement early when PASS criterion was met

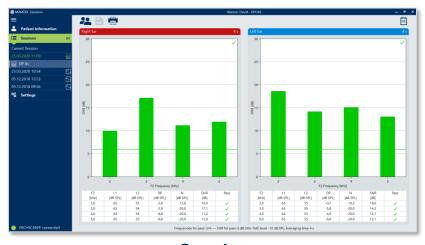
## 4. Optional Software Solutions





**HearSIM™** 

- Dedicated for newborn hearing screening
- Manage patients and test results
- Tracking data export



**Sessions** 

- Manage also diagnostic results
- Supports of many other MAICO devices, like touchTymp, MA 25e, MA 27e and MA 28
- Flexible database and EMR integration
- $\rightarrow$  You can add the software solution for your personal needs

### 4. Sessions (optional)



- Standalone, with OtoAccess® Database or NOAH
- EMR integration interface (XML and GDT)
- Combined support of audiometry, tympanometry and OAE devices
- All OAE diagnostic and screening results supported
- With OtoAccess Database:
  - Patient/result up- and download from PC to ERO•SCAN®
  - Optional: Worklist HL7 integration



## 4. HearSIM™ (optional)



- Management of patients and tests
- Review and print test results
- Transfer patients to the device
- Perform tracking data export
- Suitable for full featured screening programs

Please note: Only compatible with the ERO•SCAN® Screening versions



## 4. Compatibility



Туре	Application	Protocol	HearSIM	Sessions
TEOAE	Screening	TE 64s	✓	✓
		TE 32s	✓	✓
	Diagnostic	TE 1.5-4.0		✓
		TE 0.7-4.0		✓
DPOAE	Screening	DP 4s	✓	✓
		DP 2s	✓	✓
	Diagnostic	DP 2.0-5.0		✓
		DP 1.5-6.0		✓
		DP 1.6-8.0		✓
		DP 1.5-12		✓





Questions?





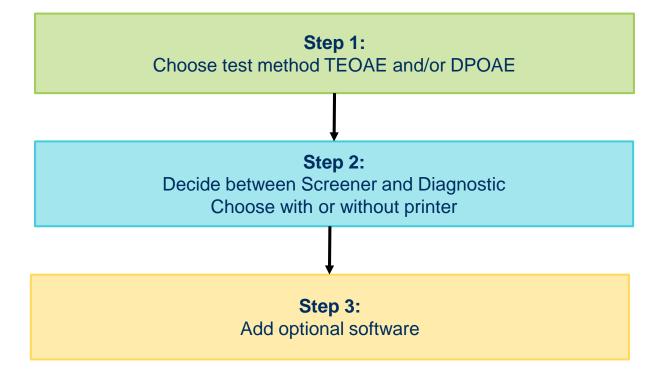




# 5. Sales Configuration

### 5. Sales Configuration





## 5. Sales Configuration - Overview



#### Step 1: Select Test Method

Step 2: Choose configuration Step 3:

Add optional accessories

- TEOAE
- DPOAE
- DPOAE and TEOAE

Select the required configuration of ERO•SCAN® Screener or Diagnostic, with or without Printer

- DPOAE Screener
- DPOAE Screener with printer
- TEOAE Screener
- TEOAE Screener with printer

. . . . .

#### **Optional Software**

MAICO Sessions
Standalone
With OtoAccess® Database
With Noah Database

HearSIM with OtoAccess® Database (ERO•SCAN® Screener only)

## 5. Components and Accessories



Standard Components



ERO•SCAN® device



Probe



Eartip set



Carrying case

Standard Components



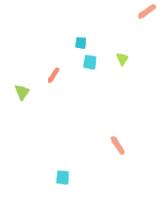




Printer







## Questions?

























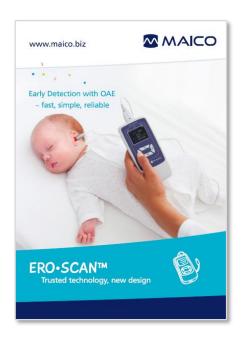


People & Product Pictures









Datasheet

**Brochure** 

Poster A1 Format









Roll-up

PowerPoint Presentation Template 16:9

E-Mail Footer





ABR SCREENING SERVICE

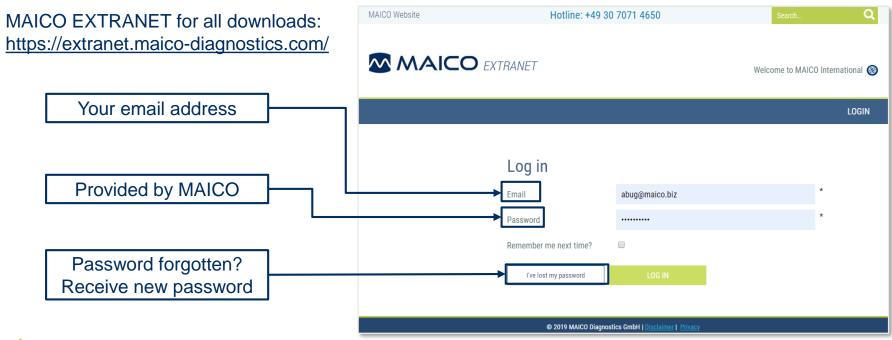
Designs according to theme of congress / exhibition adjustable

OAE



Graphics for Congresses/ Exhibitions







NEW Extranet will be online soon! We will keep you updated via email!





## **Questions?**



