

Introducing the latest technology for DPOAE and TEOAE tests with the **MAICO ERO•SCAN™**



- Measurement of otoacoustic emissions by DPOAE and/or TEOAE tests
- Light (300 g), ergonomic designed handheld instrument
- Easy to use with PASS / REFER and graphical test result display
- Fast automatic test (typ. 7 seconds) with accurate, reliable results
- Automatically short-form printout in 3 seconds
- Optional external mini probe operates in addition to built-in probe
- Test results can be downloaded to a PC via serial RS 232 cable

The MAICO ERO•SCAN™ for repeatable, accurate OAE-results within seconds

Fast automatic OAE evaluation

The MAICO ERO•SCAN™ system has been designed for a fast automatic testing of new-born babies, children and adults. It can be used in hospitals, clinics and medical offices. After a few seconds the test for one ear is typically done. PASS or REFER together with the frequency specific test result (DPOAE in the range of 1.5 to 6 kHz; TEOAE 0.7 to 4 kHz) is shown on the built-in graphical LCD-display. A printout is generated automatically when the probe is replaced in the cradle.

Easy handling

The MAICO ERO•SCAN™ system is easy to use, with uncomplicated operation and test analysis. The ERO•SCAN™ system consists of the lightweight probe, the cradle and the printer. When the probe is replaced in the cradle, a printout is generated automatically. The PASS / REFER result makes screening easy. In addition a detailed test report with test settings and results can be printed out.

Lightweight, high-accuracy probe

The lightweight (300 g including batteries) probe includes the complete test instrument. The mechanically-isolated probe tip permits handheld operation with no degradation in noise specification. Up to 50 tests are saved to the non-volatile memory.

Customizable to individual needs


Three models with DPOAE+TEOAE, TEOAE and DPOAE are available. The front panel programming allows easy change between the basic and a custom test setting. An advanced setup menu allows individual programming of test parameters like frequency range, pass criteria, time/date etc.

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ERO•SCAN™ system with optional external probe

Technical Data

Probe:	
Measurement type:	TEOAE and / or DPOAE
Frequency range:	1.5 to 6 kHz (DPOAE) 6 to 12 kHz (DPOAE-only with external probe) 0.7 to 4 kHz (TEOAE)
Stimulus intensity range:	DPOAE: 40 to 75 dB _{SPL} TEOAE: 83 dB _{SPL} Peak equivalent (± 3 dB)
Maximum output:	90 dB _{SPL}
Microphone system noise:	- 20 dB _{SPL} at 2 kHz (1 Hz BW) - 13 dB _{SPL} at 1 KHz (1 Hz BW)
Stimulus sampling rate:	31.25 Hz
Power supply:	6 V- batteries - four AA cells
Battery life:	typical 300 tests
Probe weight:	300 g (including batteries)
Display:	LCD-display 4 lines x 10 characters
Printer:	
Printer type:	Thermal dot matrix
Speed:	> 10 lines / second
Operating noise:	< 50 dB _{SPL}
Power supply:	Mains 100 ... 240 V 50/60 Hz
Printer weight:	630 g
General:	
Standards:	IEC 601-1 according to medical Directive 93/42/EEC  FDA 510 (k) #980533 23.3.1998
PC-interface:	serial RS 232
Standard Accessories:	Probe with four AA-batteries, cradle, printer with power supply, replacement probe tips, set of eartips
Optional Accessories:	Carrying case, printer with rechargeable batteries, external mini probe

Specifications are subject to change without notice



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