

ERO•SCAN® Pro

OAE / Tympanometry

ERO•SCAN® Pro

The Ero•Scan Pro was the first system that had the capability of linking DP and TE protocols for diagnostic cochlear mapping. An optional impedance function can be added for tympanometry (226 Hz and 1000 Hz), and ipsilateral acoustic reflexes for an objective evaluation of the middle ear.

Features at a glance:

- Customizable settings and protocols
- Sequenced protocols permit a full test battery
- Test patient of any age
- Documented test results
- Portable hand held unit runs on alkaline batteries
- Small footprint to easily move from room to room
- Approved, verified protocols can be customized
- Open templates that can be customized
- Quick print to PC without a full transfer required

Advantages of OAE

- DPOAE high to low frequency testing
- Immediate stop of testing upon pass result
- Boys Town normative data included and visible on the hand held unit screen

Advantages of Tympanometry:

- Evaluates condition of middle ear
- Objective test method

DPOAE/TEOAE/Tymp and Ipsilateral Acoustic Reflexes

- One probe fit; run three tests without taking probe out of the patients ear. OAE, tympanometry and ipsilateral acoustic reflex.
- OAE and tympanometry can be completed in as little as 20 seconds
- Intuitive interface for fast, easy operation
- Advanced diagnostic OAE capabilities



Technical Data

DPOAE System

Primary Tones: Frequency: F2 from 1.5 kHz to 12 kHz
 Intensity: Up to 6 kHz: 40/40 to 70/60 dB SPL
 Over 6 kHz: 40/40 to 65/55 dB SPL

MIC System Noise: ≤ -20 dB SPL @ 2 kHz (1 Hz Bandwidth)

Artifact: < -20 dB SPL @ 2F1-F2 Frequency

F1/F2 Ratio: 1.2 (default) adjustable 1.1 to 1.4

F1/F2 Differential: 0 to 30 dB SPL

TEOAE System

Stimulus: Adjustable up to 83 dB SPL Broadband Click

Click Bandwidth: 500 Hz to 4000 Hz

Analysis Bands: 6 or 10 Bands

Artifact: < -10 dB SPL

Acoustic Reflex System

Stimulus: 500, 1000, 2000, 4000 Hz Pure tone
 Broadband noise, low pass noise, high pass noise

Probe Tone: 226 or 1000 Hz

Stimulus Intensity: 500-4,000 Hz 70-95 dB HL, in 5 dB steps
 Noise stimulus 60-90 dB HL, in 5 dB step

Standards: IEC60645-5; ANSI S3.39-1987

Parts & Accessories

The ERO•SCAN® Pro OAE System is available in three configurations: Screener, Standard and Clinical. The 12 frequency protocol will only appear on DP Standard or Combo Diagnostic instruments (supported by both OAE and Tympanometry probes). The Acoustic Reflex capability is available for any configuration of instrument, but requires a Tympanometry probe.



Applicable CPT Code(s):
 OAE: 92558, 92587, 92588
 Tympanometry Probe, option includes: 92550, 92567, 92568

Tympanometry System

Probe Tone: 226 Hz, 1000 Hz

Frequencies:

Probe Tone Level: 85 dB SPL with in-ear calibration

Air Pressure Range: 0.05cc to 3.0cc: +300 to -400 daPa
 3.0cc or greater: at least +200 to -200 daPa

Air Pressure Capacity: 0.05cc to > 5.0 cc

Air Pressure Speed: 60 daPa/sec. nominal
 500 to 700 daPa/sec (depending on ear volume)

Test Time: 2.5 seconds nominal (depending on ear volume)

Overpressure Limit: 1.0cc ear canal volume < 3 psi (2000 daPa)

STANDARD ACCESSORIES

- Eartip kit
- Cradle
- USB
- OAE external probe
- Probe tips (internal)
- Probe tips (external)
- Operation manual

OPTIONAL ACCESSORIES

- Printer
- Carrying case
- Tympanometry/OAE external probe
- Patient management software

