

Otoport **ADVANCE**

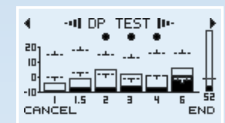
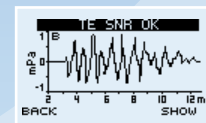
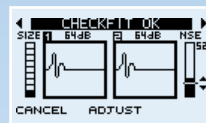
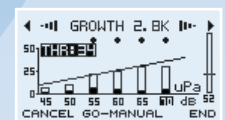
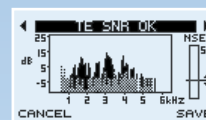
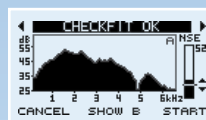


Gather, organize and examine high quality TEOAE and DPOAE data

Transfer to PC software for ILO compatible data analysis

Otodynamics

Advanced clinical OAEs



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Features

A powerful handheld clinical instrument delivering research quality OAE measurement and analysis.

Optimal design

- Ergonomic handheld format
- Powerful multi-processor internal architecture
- Clear, informative graphics and numeric data displays
- Long battery life with charge indicators and warnings
- Widely acclaimed Otodynamics probe
- Intuitive operation, with keyboard driven menus
- Automatic or manual test settings
- Extensive protocol control with login and administrator functions
- Configurable automatic test termination when data meets required signal quality or clinical pass criteria

OAE capabilities (expandable - Additional features see below)

- **DPOAE** DPgram 1-8kHz, 2-16 pts/oct, 1-13 frequencies
- Standard DPgram 6 pts ½ octave, with criteria based stopping
- Zoom DP mode up to 16 pts/oct resolution over a ½ octave
- Programmable DP stimulus 50-75 dB SPL
- DP growth I/O function analysis, dB/dB and scissor modes
- Customizable normative range display markers
- **TEOAE** Quickscreen with 'ILO' analysis
- Waveform display, dB SPL, SNR and Repro
- Frequency analysis 1-6kHz, 6 bands, ½ octave analysis
- High resolution spectrum (80Hz bandwidth)
- Powerful noise artefact rejection tools
- Intelligent or manual test progress management for fast testing
- 12 Test modes, 10 fully configurable and nameable
- Unique real-time probe check-fit accuracy displays

Onboard data storage

- Raw data recall and compare
- Patient data entry on illuminated mobile phone style keypad
- Extensive 3000 test 1000 name record database, searchable by name, ID and date, tester, DoB

Advanced data analysis and management

- USB transfer to PC for full ILO-V6 software analysis and tracked integration into Echoport V6 database, exporting to OZ, Hitrack, ASCII, XML, archive

Hardware facilities

- Full docking station with PC, printer and PSU inputs
- Optional wireless printing, barcode scanning and ID chip reader
- Fully updateable firmware from PC
- Power-on self test and probe calibration test functions
- Hardware expansion port options subject to minimum quantities, e.g. modem with web services

Additional features

Otodynamics is committed to enhancing the Otoport Advance's performance and its development team is currently working on four additional test features for the Otoport Advance, viz:

- Contralateral suppression (cochlear reflex) measurement (with optional probe and adaptor)
- Spontaneous otoacoustic emission recording
- Classic 'ILO' 20ms non-linear TEOAEs
- Macro-programming of mixed test sequences or up to 3000 sequential tests for monitoring

The next free Otoport Advance firmware update is scheduled for September 1st 2010 and will provide some or all of these new features, to be followed by further free updates.

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Otoport case



Full docking station, connects to printer, PC and charger



Wireless battery printer (optional)



Probe pouch



DP/TEOAE probe



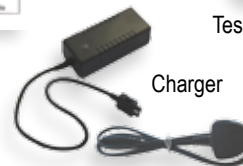
Probe tips



Test cavity



Probe cable clip



Charger



Grip strip (shown attached)



Integral barcode scanner (optional)



Infection control sleeve (shown fitted)

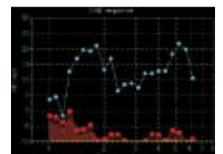


Otolink PC software and download cable

ILO V6 & EZ-Screen PC software for full analysis



PC not supplied



Accessories

Otoport Advance Standard Package

Includes all accessories except printer

Item OA-S

Otoport Advance Printer Package

Includes all accessories and wireless printer

Item OA-P

Technical Specifications

Interfaces: Probe connector (Otodynamics 8-pin). Data connector - USB 1.1/2.0 compatible PC connection for data and charging, also accepts Otodynamics PSU. Optional wireless interface to Otodynamics printer and for future data transfer expansions.

Keyboard: 19 key language specific alphanumeric with cursor control and menu buttons.

Power: Internal rechargeable 3.7v, 1000mAh lithium-polymer battery. Charge time - 3 hrs to 90% capacity, approx 4 hrs to 100%. Intelligent multi-level power control for charging/testing/idle/sleep/shutdown. Capacity up to 250 test cycles or one full working week. Max dissipation, testing, 720mW, charging, 2.5W.

Processors: DSP data acquisition and analysis engine 420 MIPS. Multiprocessor user interface. 8MB non-volatile database.

Analogue interface: 2 x 16bit (output) and 1 x 16 bit (input) channels. Frequency response (electrical) - 160Hz to 12KHz.

Hardware options: Wireless printing, internal barcode reader and RFID scanner.

Dimensions: 195mm x 70mm (max) x 30mm. **Weight:** 0.55 lbs (250g).

Operating environment: For indoor use: 5 to 40 deg C. Max humidity 80% to 31 deg C decreasing linearly to 5% RH at 40 deg C. For transport and storage: 0 to 40 deg C. Pressure: 23-101KPa. Humidity: 10% to 90% non-condensing.

Classifications and standards: Device Class 2a (Directive 93/42/EEC). BS EN ISO 13485:2001. ISO 14971. BS EN 60601. UL 60601. CSA-C22.601.

Features and Specifications subject to change