

# VITALOGRAPH PC-BASED AUDIOMETERS

with Spirotrac Software



**Vitalograph®**  
Your cardio-respiratory partner

Data you can rely on. People you can trust.

# PC-BASED AUDIOMETERS

with Spirotrac Software

The Vitalograph range of screening and diagnostic audiometers offers comprehensive and easy to use audiometry testing options for occupational health, primary care and audiology professionals.

All devices are PC-based, and connect via USB to Vitalograph Spirotrac® Software, whether loaded onto a PC/Laptop or as part of the Vitalograph COMPACT™ Medical Workstation.

## Vitalograph Audiometer Range

The range offers:

- On-screen audiometry via user-friendly Spirotrac Software
- Fast and easy PC-connection via USB (plug & play)
- Customised settings according to user preferences
- Extensive database and storage capacity
- PDF report generation
- Data exchange with primary care and occupational health electronic medical record systems
- 2 year warranty

## Screening Audiometers (70409 & 70410)

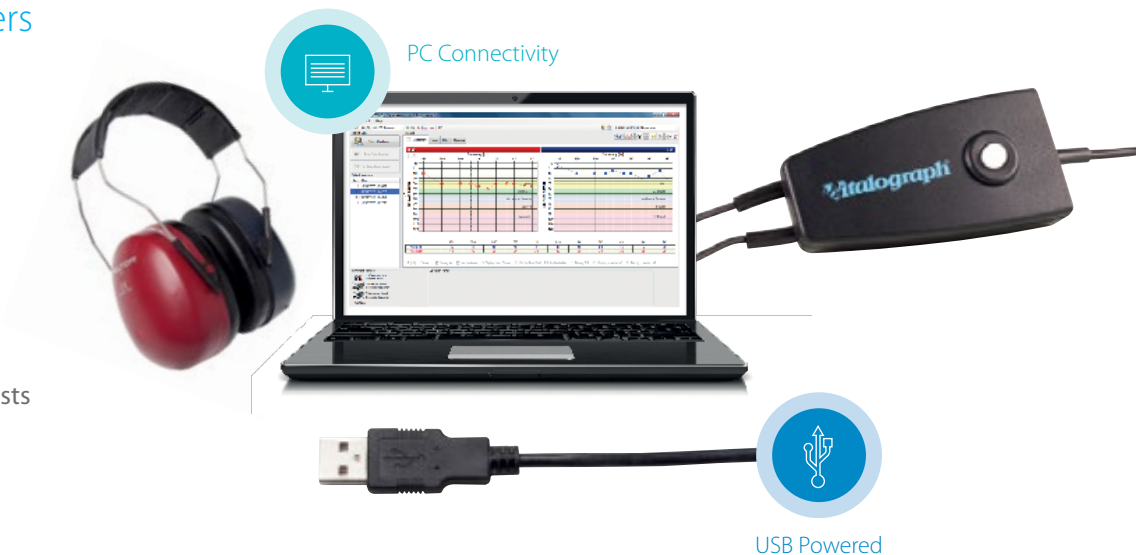
Tests available:

### 70409

- Manual Test
- 20dB Auto Test

### 70410

- Manual Test
- 20dB & xdB Auto Tests
- 20dB & xdB Random Auto Tests
- Hughson Westlake Test
- Ear Protector Test
- MCL & UCL Threshold Tests



## Ear Protector Test (70410 & 70411)

Workplace Noise-Induced Hearing Loss (NIHL)

Excess noise is one of the most common occupational hazards. Based on the WHO definition, about 16% of hearing loss worldwide is attributable to occupational noise exposure.

Hazardous noise and occupational hearing health

To help companies whose employees work in noise filled environments prevent hearing damage and secure a healthy working environment, the Vitalograph Audiometer (70410) offers an innovative and easy to use solution for validating whether protective earplugs used by employees provide the specified level of protection.



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## PC-Based Diagnostic Audiometer (70411)

Tests available:

**As per 70410 plus -**

- Bone Conduction
- Weber Test
- SISI Test
- Masking (NB)
- Decreasing 10dB Random Auto Test
- Decreasing 5dB Random Auto Test
- Ear Protector Test



## Multi-Parameter Test Packages

Audiometry can be performed on a PC, laptop or Windows® based tablet computer, or as part of the Vitalograph COMPACT Medical Workstation (pictured below).

As all of these system options utilise Spirotrac Software users are able to include additional diagnostic and screening tests, such as spirometry and 12 lead resting ECG, either at the time of purchase or at a future date.

Spirotrac provides users with the ability to achieve bi-directional data exchange with their Primary Care or Occupational Health electronic medical record (EMR) systems.



Please refer to the ordering information on the back page for details of the full range of optional configurations and add-on modules available.

## Ordering Info

### Audiometer Range

Part No.	Screening Audiometers		Diagnostic Audiometer
	70409	70410	70411
<b>Tests</b>			
Manual Test	•	•	•
20dB Auto Test	•	•	•
20dB Random Auto Test		•	•
xxdB Auto Test		•	•
xxdB Random Auto Test		•	•
Hughson Westlake Test		•	•
Ear Protector Test		•	•
MCL & UCL Threshold Tests			•
Bone Conduction Tests			•
SISI Test			•
Weber Test			•
Masking NB			•
Decrease 10dB Random Auto Test			•
Decrease 5dB Random Auto Test			•

### Audiometers

- 70409** Screening Audiometer – Standard with Spirotrac Software
- 70410** Screening Audiometer – Advanced with Spirotrac Software
- 70411** Diagnostic Audiometer with Spirotrac Software

#### Includes

Audiometer with integrated headset and patient response control, bone conductor headset (70411 only), Spirotrac Software and carry bag.



#### Other Spirotrac Compatible Test Devices

- 77700** 6800 Pneumotrac™ Spirometer
- 41300** BT12 12 lead resting ECG – Bluetooth®
- 70400** 7000 Pulse Oximetry Sensor - USB

#### Multi-Parameter Test Packages

- 77802** 6800 Pneumotrac Spirometer + 70409 Audiometer with Spirotrac Software
- 77804** 6800 Pneumotrac Spirometer + 70410 Audiometer with Spirotrac Software
- 77806** 6800 Pneumotrac Spirometer + 12 lead resting ECG + 70409 Audiometer with Spirotrac Software
- 77808** 6800 Pneumotrac Spirometer + 12 lead resting ECG + 70410 Audiometer with Spirotrac Software
- 67502** 6700 Compact + Spirometry + 70409 Audiometer
- 67504** 6700 Compact + Spirometry + 70410 Audiometer
- 67506** 6700 Compact + Spirometry + 12 lead resting ECG + 70409 Audiometer
- 67508** 6700 Compact + Spirometry + 12 lead resting ECG + 70410 Audiometer

#### Software

- 89001** Vitalink Software (Required for data exchange with EMIS, Vision & SystmOne electronic medical record systems\*)

### Technical Specifications

**Dimensions** 150 x 140 x 110 mm

**Weight** 500g

**Power Supply** 5V DC +/- 5% from PC USB port

#### Environmental Conditions for Operation

**Temperature** +15 to +35°C

**Relative Humidity** 30% to 90%

**Atmospheric pressure** 80kPa to 120kPa

#### Environmental Conditions for Storage

**Temperature** -10 to +50°C

**Relative Humidity** 95% or less (non-condensing)

#### Standards Compliance

**Safety Standard** IEC 60601-1

**EMC** IEC 60601-1-2

**Audiometric** IEC 60645-1

**Medical Devices Directive** 93/42/EEC

**Audiometers** ANSI ASA S3.6-2010

#### Classification

Group 1, class A, EN60601-1-2-2

\* Data exchange of certain test parameters with specific electronic medical record systems may be at different stages of development. Please contact Vitalograph for further details.



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