

# Euterpe & Euterpe 2007

## acoustic software packages

### for environmental noise monitoring

Euterpe and Euterpe 2007 are similar software applications that turn your PC into a sound level meter. Euterpe and Euterpe 2007 are powerful tools to measure, calculate, display, report and respond to sound levels. Euterpe and Euterpe 2007 were developed to perform long-term environmental noise monitoring but they can also be used as general acoustic tools.

With **Euterpe 2007** measurements are obtained that are **type 1**.

With **Euterpe** measurements can be **very accurate** but they are not type 1.

The screenshot displays the Euterpe software interface with several key components:

- Top Left:** A bar chart showing sound level measurements over time, with a y-axis from 0 to 120 dB(A).
- Top Right:** A panel for device settings (Com3 SC-20c) and status indicators (Weighting: A, Overload: no, Battery: ok, LCPk: 0.0).
- Middle Left:** A table of task settings including 'Repeat time', 'Change report line', and 'Enable logging External SLM data'.
- Middle Center:** A table of frequency analysis data with columns for Band, Frequency (Hz), LF (A), and LF (L).
- Middle Right:** A 'Fast Function' control panel with dropdown menus for 'Frequency weighting' and 'Time weighting'.
- Bottom Left:** A 'Task description' panel with a 'Task' dropdown and 'Start now'/'Cyclic' options.
- Bottom Center:** A 'Log directory' and 'Log External SLM' configuration panel.
- Bottom Right:** A 'Report time' table showing data for various dates (20:54:03 to 20:49:02) and a 'Definition of Tonal sound' panel.

### Applications where we can use Euterpe & Euterpe 2007 to perform noise monitoring:

Environmental noise  
Public event noise  
Railway noise

Industrial noise  
Transportation noise  
Airport noise  
Building & construction site noise

Recreational noise  
Road traffic noise  
City noise



## What can Euterpe & Euterpe 2007 measure?

- Acoustical parameters LF (Fast), LS (Slow), Leq (time averaged equivalent level) and SEL
- Frequency spectra up to 1/96 octave band (1/1, 1/3, 1/6, 1/12, 1/24, 1/48 and 1/96)
- Statistical percentiles Ln (L1 to L99)
- All results can be A, B, C, D and lin-weighted
- Audio recordings (.wav files format) based on trigger levels where different trigger levels can be set for different parts of the day / week
- Graphical, real-time representation of the time-domain and the frequency spectrum
- Scheduling tasks (changing the settings) at user-defined moments
- Recording is only limited to the size of the PC memory
- Log weather data when a weather station is connected
- Automatically send out information by SMS (text message / SMS notification)
- Connect to other PC's at a distance to allow reading out measured data
- Build a network of noise monitoring stations
- ....

## What can Euterpe 2007 do additionally & how does it get type 1 results?

The innovative Euterpe 2007 software can obtain type 1 measurements if we connect the digital interface of a basic, hand-held, type 1 certified sound level meter to an E-PC (a PC that runs Euterpe 2007).

Euterpe 2007 is capable of reading out all the 'type 1' measured data of the connected hand-held sound level meter in real time and storing this data into the E-PC's internal memory.

*Euterpe 2007 does not measure the type 1 data,  
it just stores the data measured by the type 1 sound level meter.*

### Available versions

Euterpe Free \*

Euterpe Plus

Euterpe Pro

Euterpe 2007 Basic

Euterpe 2007 Enhanced

Euterpe 2007 Full

\* Euterpe Free is a freeware version of the Euterpe software, it is available at [www.SLMsolutions.be](http://www.SLMsolutions.be)

