

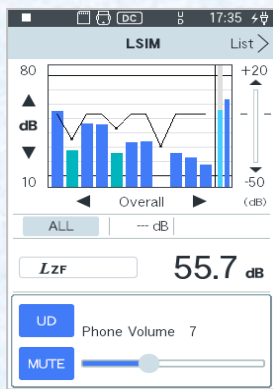
New Optional functions for LA-7000 series

Sound level meter
LA-7500 class1
LA-7200 class2

- **Level Simulator:** Trial listening during increase/decrease of band levels
- **Sound quality evaluation (LA-0708A):** Loudness calculation function upgraded
- **Offline analysis:** Sound Recording Function (LA-0704) added

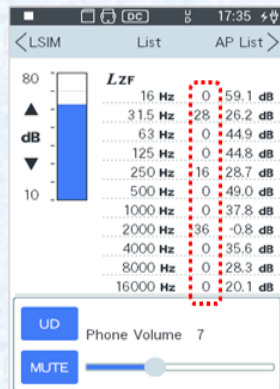
■ Level Simulator LA-0707

You can check the sound (virtual sound) before and after the countermeasure by simulating the concrete countermeasures, and find more effective way for noise control. Using RTA function is effective to confirm the frequency component that might be the cause of the problem. You can also obtain its overall value.



Simulation screen

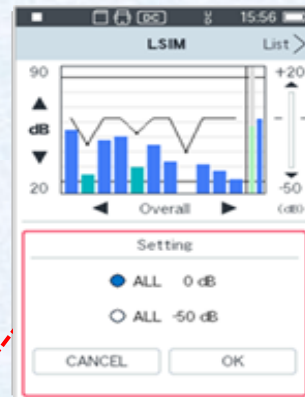
UD: Variable mode
AP: Original sound mode



List display

Increase/decrease value of each band level can be checked at a glance.

Band gain



Batch change

All 0dB : Increase/Decrease reset
All-50dB: Change to single band sound

■ Sound quality evaluation LA-0708A-Loudness/sharpness added

Two indicators (Sharpness, Comfort Index (CI)) * have been added to the steady sound loudness calculator (LA-0708). (LA-0708 is replaced by LA-0708A afterward.)

Loudness : The amount of the sound that human feel.
Sharpness: A metallic and squeak unpleasant sound
CI value *: Evaluation quantity in consideration of equivalent noise level and sharpness.
 Effective for evaluation of environmental noise and unpleasant sound
 (Effective fields of application are under study.)

<Specification>

◆**Target:** Stationary sound, diffuse sound field, or free sound field selectable.

Sound quality evaluation calculation items (LIST)

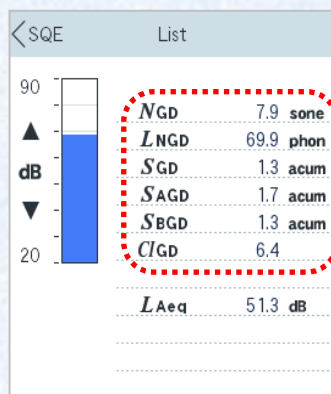
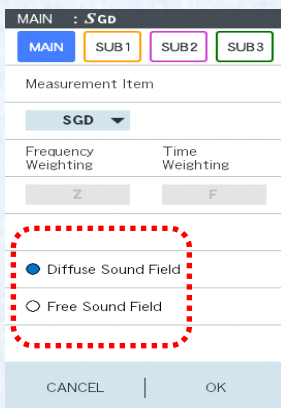
- Loudness (conforming to DIN45631)
- Loudness level (conforming to DIN 46531)
- Sharpness (conforming to DIN45692)
- Sharpness (Aures)
- Sharpness (Bismarck)
- Comfort index (CI)*

Simultaneous measurement

- Main: One from the above operation lists
- SUB1 :Laeq
- SUB2/SUB3: (one per SLM)

Measurement range: Normal range

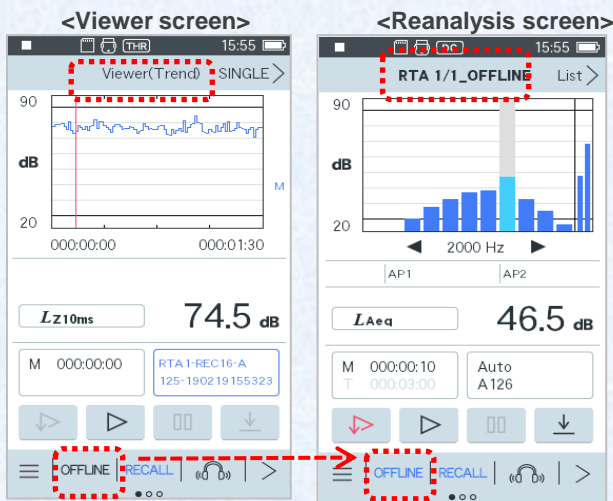
*Not supported LA-7200 (Class 2).



* CI (Comfort Index)

One of the evaluation quantities for Dr. Koko Kuwano's research. Professor emeritus at Osaka University, Kuwano Soko* (Doctor of Engineering) Chairman of the Japan Society of Acoustics, Vice Chairman of the Japan Society of Noise Control Engineers, Vice Chairman of the International Society of Acoustics

Offline analysis LA-0704A- Recalculation/reanalysis added



In addition to playback and listening on the main unit, re-calculation of Leq, reanalysis of FFT and RTA etc. is available by this.



When you need further analysis, you can transfer the data to secondary processing software.

<Specification>

- SLM (Single/Dual/Quad modes)
- RTA1/1, Filter1/1 modes
- RTA1/3, Filter1/3 modes...LA-0702 required
- FFT-mode.LA-0703 required

* L-sim modes (level simulators), SQE mode (sound quality evaluation) are not supported.

◆ Procedure for reanalysis

1. Setting of reanalysis start point
2. OFFLINE switching, selection of calculation item
3. Selecting frequency weighting and time weighting
4. Starting re-analysis

Background noise correction-RTA1/1 (standard), RTA1/3 (LA-0702 required)

It can be used for background noise correction in the field. Background noise values and measured values should be stable for the measurement.

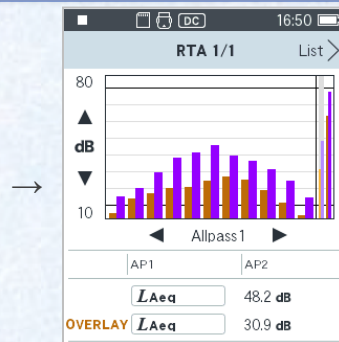
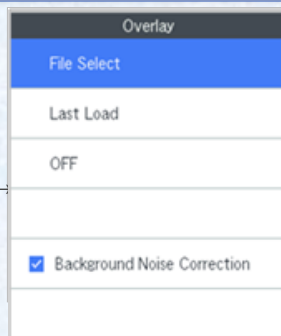
<Note on usage>

When the frequency band level of the background noise is larger than that of the target noise (commonly occurred at low frequencies).

→ Measurement not available.

Measurement with Laeq (A-weighted equivalent continuous sound level) recommended.

OVERLAY



Check the "Background noise" box and select a file.

*Without check: overlay of memory data and original data

Upgrade information

<Adding optional function after purchase>

- When ordering an optional function additionally, the serial number of the target sound level meter to which the function is added is required.
- The SD card for adding options includes the latest firmware software and option software. Be sure to upgrade the firmware first before adding optional software.

<Upgrade Firm Software Only>

- The latest version firmware is provided on the web page for registered customers.
(To log in to the user screen, it is necessary to register product information, etc.)
- Save the latest version firmware to the SD card provided with the LA-7000, and upgrade it.



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