**Sound Level Meter**

**LA-7000 series**

Listen, measure, and identify the sound.

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**Products for further analysis**

- **DS-3000**
- **IR Filter (DS-2000 series)**
- **Sound Quality Evaluation (DS-5000 series)**
- **Fluctuation Sound Analysis (DS-2000 series)**

---

**Sound Source Visualization System BF-3200, Mi-5420A etc.**

Monitor camera

Sound Source Visualization Profile Microphone

The sound source visualization system has a more advanced function than the LA-7000 series, which identifies and visualizes the sound that you are curious about (frequency of the 1/3 octave bandwidth filter)

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**Sound Level Meter LA-1411/1414A/441A**

This series has a simple function which measures the sound level, equivalent continuous sound level (Leq), sound exposure (L), maximum, minimum, peak level (Lmax), percentile noise level (Lc), etc. Recommended calibrators (Class1 and Class2) are also provided.

- **LA-441A (IEC 61672-1: Class 1)**
- **LA-1443A (IEC 61672-1: Class 2)**
- **LA-1411 (IEC 61672-1: Class 2)**

- Extension (RMC) cable for microphone is sold separately.

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**Reliable and high level calibration JCSS** Accredited Calibration Laboratory

Ono Sokki provides reliable and high level calibration as “Accredited Calibration Laboratory”, which is certified by JCSS calibration laboratory accreditation system, based on the skills and know-how of quality assurance system which has been acquired through many practices. Under the JCSS of calibration laboratory accreditation system, Ono Sokki is assessed and accredited as Accredited Calibration Laboratories to meet the requirements of the Measurement Law, relevant regulations and ISO/IEC.

**Accreditation Scope**

- Acoustics & Ultrasound
- Acceleration
- Torque
- Print R
- Electricity (Direct Current & Low Frequency)
- Speed

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**Worldwide**

**ONO SOKKI CO., LTD.**

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**VOC free ink was used to print this report.**

An eco-friendly waterless printing method was used which does not yield harmful waste water.

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**VOC free ink was used to print this report.**

An eco-friendly waterless printing method was used which does not yield harmful waste water.
**Easy to operate**

**4.3 inch color LCD**
Clear and easy to see a display of overlapping. When the instantaneous value exceeds, the bar graph turns red and the letter of OVER is left as a measured history.

**Starts recording with one-touch operation**
Calculation and recording are started just by tapping the button (for auto memory) with a finger.

**Listening function**
You can measure while listening to the sound. It enables you to realize and experience the sound, not only as simple numerical values but also as a real feeling. Moreover, you can listen to only the intended sound more clearly through filtering by bandpass filter. By aiming the microphone (sound level meter) toward the direction where the sound is heard loudly, the sound probing is easily performed. (Refer to the Function page.)

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**Easy to hold**

**Compact**
Achieves 35 % of size-reduction in volume of conventional model. Easy-to-hold design.

**Short lanyard for portable use**
The short lanyard provided as an accessory prevents the sound level meter from slipping down.

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**Easy to use**

**Intuitive operation by a touch panel**
It provides intuitive operation in easily understandable manner by even a beginner touching the sound level meter for the first time. You can select and change items on the display including calculation, range, measurement time by tapping the panel.

**Language selection**
Language used on the display (menu, error message etc.) is selectable (English/Japanese).

**USB power supply allows long time measurement**
Approx. 12 hours of continuous operation by alkaline battery cells (depends on the selected model). Longer continuous operation is allowed by USB bus power. USB gets preference over battery cells when both USB and battery cells are used together. The battery power supply is automatically selected by removing USB connection.

**Windscreen correction function**
When measuring with windscreen, the influence of the attachment can be corrected by this function. *Applicable to IEC 61672-1 with a state a windscreen attached. *The use without a windscreen correction is available.

**Capturing function**
Captures the displayed screen by pressing Power key and Home key simultaneously.

**Home key leads you to return to the first page**
Pressing Home key returns the display to the home screen. Helpful to go back to the home screen quickly from the deep hierarchy that you are operating.

**External power supply ON/OFF function**
When the LA-7000 series is used being incorporated in equipment, the ON/OFF power operation can be interlocked to an external power supply.
* The battery cells should be removed.
Sound level meter advancing with additional function

1/1 Octave band function which is effective for noise countermeasurement is provided as standard.
High cost-effective, high performance, and continues to advance sound level meter by adding further optional functions.

Standard function

DUAL mode, QUAD mode
Two (DUAL) or four (QUAD) of calculation values in the combination of various frequency weightings and time weightings can be displayed simultaneously. Useful when displaying several kinds of frequency weightings.

Listening function (Phone output)
Measuring while listening to the sound
- Effective for the measurement in an anechoic room or distant place
- Effective for monitoring of environmental noise etc. at distant place
*Extension cable, headphone: sold separately

Standard function

1/1 Octave Band Analysis Function

Applicable standard: IEC 61260-1:2014 Class1 / JIS C 1513-1: 2002 Class1, JIS C 1514-1:2002 Class1
Analysis band: 16 Hz to 16 kHz (11 bands), Allpass 1, 2
Measurement item: Filter Mode (Bandpass, Allpass) • LCF, MF, LF, HF, LCF, MF, LF, HF (list)
RTA Mode • LCF, MF, LF, HF, LCF, MF, LF, HF (Main)
Measurement range: Normal range (Wide range: not supported)
Memory modes: Manual, Auto, Logging, Record (LA-0704 is required.)

Optional function

1/3 Real-time Octave Analysis Function LA-0702

Analysis band: 12.5 Hz to 20 kHz (33 bands), Allpass 1, 2
Applicable standard, Measurement item, Measurement range, Memory mode: same as 1/1 octave mode

Optional function

Sound Recording Function LA-0704

- Memory mode: Record
- Sampling frequency: 64 kHz
- Recording time: approx. 8 hours at 4 GB max. (16-bit)
  (Depending on BIT: approx. 5.5 hours at 4 GB max. (24-bit))
- File format: wav. (acoustic data)
  *Simultaneous processing of analysis and recording in RTA or FFT mode is not available.
  *Please record the data at 2 GB when it will be read by the DS-2000 series.
  The DS-2000 series can read up to 2 GB of data.
  (Recording time: approx. half of that when recording with 4 GB)

Optional function

FFT Analysis Function LA-0703

This function can perform analysis with finer line resolution (narrow band analysis). Effective for frequency analysis of single-shot sound using trigger function.
Frequency range: 1 kHz, 2.5 kHz, 5 kHz, 12.5 kHz, 25 kHz
Number of lines: 400 (1024), 800 (2048), 1600 (4096) (number of sampling points)
Trigger: ON/OFF times (1 to 16), Level (40.0 to 130 dB), Position (-64 points fixed)
Average mode: SUM, MAX/Min, EXP (exponential)
Measurement range: Normal range (wide range: not supported)
Applicable memory: Manual, Auto, Logging, Record
Screen expand display (Expand): x1, x2, x4

Optional function

Level Judgment Function LA-0705

Judging item: Lp instantaneous value
In Main (Calculated value: not supported)
Setting level: 30.0 dB to 130.0 dB
DELAY setting: OFF, 10 ms, 100 ms,
1 s, 2 s, 3 s, 4 s, 5 s, 10 s
HOLD setting: 100 ms, 200 ms,
500 ms, 1 s, 5 s, 10 s,
30 s, Manual
Output mode: OFF, ON (Mode/Low),
ON (Mode/Low)

Optional function

Loudness Calculation Function LA-0708

Effective for sound evaluation that does not give numerical difference in the result of A-weighting.
- Loudness Calculation function for stationary loudness (conforms to DIN45631)
- Calculation list (5th voice sound field-free sound field)
  Loudness value
  Loudness level
  - Simultaneous measurement
    One item from calculation list value,
    Three items from SLM values (LAEq) etc.
  Measurement range: Normal range
  (Wide range: not supported)
Bar graph: Lz value (dB display)
*Contents: Equivalent to the LA-2000 series (previous model)
*Not supported for LA-7200 (Class3)
SC-2500
IEC 60942 Class II, JIS C1151 Class 1
Sound pressure level 114 dB Frequency 1000 Hz
SC-3120
IEC 60942 Class I/C, JIS C1151 Class 1/C
Sound pressure level 114 dB Frequency 250 Hz
SC-2120A
IEC 60942 Class I, JIS C1151 Class 1
Sound pressure level 94 dB Frequency 1000 Hz

Microphone extension cable
AG-3400 series
MI-001 Microphone holder is provided as standard.
Please use the extension correction modes when using extension cable.

OS-2000 series
Sound quality evaluation, Frequency analysis, Trend graph

DS-3000 series
Frequency analysis (FFT analysis, Y/N analysis)
*Please contact your nearest distributor or One Sokki sales office nearby for more details.

Tripod
LA-203D
Air 1100
made by SLIK corporation
Reduction length: 417 mm
Lowest position: 170 mm
Highest position: 3 m
Weight: 980 g

Headphones
(MDR-7561)
made by Sony Corporation
ATH-M50, ATH-M40 x 2
made by Audio-Technica corporation

SD card
Up to 32 GB
*Standard accessory

AC adaptor (with 100 VAC power cable)
PB-7990
*Worldwide type cable: consult your nearest distributor or One Sokki sales office nearby.

Signal cable 2 m
AG-3501

Option

Accessory & Related products

Sound calibrator
Philips 70 mm

-All weather windscreen
LA-0207A
Screen: ø 30 mm
*Extension cable: tripods sold separately.

Carrying case
Alkaline battery cell x 4
*Sound calibrator: sold separately.

Instruction manual (CD), setup guide (booklet)

Instruction manual (booklet/sold separately)
- Basic operation (color)
- Technical specifications (color)
- Interfaces (color)
- Options
* The contents above are same as the instruction manuals provided as standard.

USB cable
(Recommended product)
PC-AMB-FU2B8K (1.2 m)
with ferrite, 2A output supported (made by ELECOM,CO.,LTD)

Multi-interface
MULTI I/O cable 2m (PS-D1075S)
PC side (serial port)-D-sub 9-pin connector

Outline drawing

Off-line analysis software

-All OS-2000 series are sound simulators (USB filter), sound quality evaluation, Frequency analysis, Trend graph

-All DS-3000 series are frequency analysis (FFT analysis, Y/N analysis)

-SC-2500 series, SC-3120 series, SC-2120A series

specification

LA-7500/Class 1
LA-7200/Class 2

Applicable standard
IEC 61742-1 Class 1
IEC 61742-2 Class 1
IEC 61742-1 Class 2
IEC 61742-2 Class 2

Measurement frequency range
A: 3 to 130 dB (50 to 13 dB) B: 3 to 130 dB (20 to 13 dB)

Reverberation inside (ISO, 5145)
A: 20 to 130 dB (50 to 13 dB) B: 20 to 130 dB (20 to 13 dB)

Reference level (A, B, C)
A: 16 dB or less C: 24 dB or less 20 dB or less
B: A: 17 dB or less C: 24 dB or less 20 dB or less

Microphone


Microphone extension cable

AG-3401 5 m
AG-3402 10 m
AG-3403 20 m
AG-3404 40 m

SD card

4 GB
*Standard accessory

Headphones

(MDR-7561)
made by Sony Corporation
ATH-M50, ATH-M40 x 2
made by Audio-Technica corporation

AC adaptor (with 100 VAC power cable)

PB-7990
*Worldwide type cable: consult your nearest distributor or One Sokki sales office nearby.

Analog signal cable 2 m
AK-301

Provided as standard

Option

Please use a recommended SD card when you use the SD memory function. For more details about the recommended SD card, please contact your nearest distributor or send an e-mail (evanservice@worldwide.bose.com) and ask for details.

1) A 12-hour day corresponds to 3600 s.

2) If depends on the using status such as operation mode, memory mode, and backlight.

1. Please use the extension correction modes when using extension cable.