

SPECIFICATIONS

Type	TYPE 6236 Sound level meter	TYPE 6238 Precision Sound level meter
Applicable Standards	JIS C1516:2014 Class 2 JIS C1509-1:2017 Class 2 IEC 61672-1:2013 Class II	JIS C1516:2014 Class1 JIS C1509-1:2017 Class1 IEC 61672-1:2013 Class I
Measurement Range	20Hz ~ 20kHz	10Hz ~ 20kHz
Microphone (Sensitivity)	TYPE 7052NR (-33dB, Stand-alone -31dB)	TYPE 7146NR (-33dB Stand-alone -27dB)
Level Range Control	10dB 6step 20 ~ 80dB, 20 ~ 90dB, 20 ~ 100dB, 20 ~ 110dB, 30 ~ 120dB, 40 ~ 130dB	
Measurement Level	A : 28 ~ 130dB C : 37 ~ 130dB Z (FLAT) : 39 ~ 130dB C peak : 55 ~ 141dB Z (FLAT) peak : 60 ~ 141dB	
Self-noise level	The lower limit of the measurement range in dB lies 6dB higher than self-noise level.	
Linearity Range	100dB	
Time weighting	Fast, Slow, Impulse	
Frequency weighting	A, C, Z (FLAT)	
Measurement items	Time weighting and frequency weighting correspond to each measurement function. Sound pressure level ($L_A/L_C/L_Z$) Time level display of sound pressure level ($L_A/L_C/L_Z$) Equivalent continuous sound pressure level (L_{Aeq}) Sound exposure level (L_A) Maximum Sound pressure Level (L_{max}) Minimum Sound pressure level (L_{min}) Percentile sound level (L_n) Z-weighted peak sound level (L_{peak}) C-weighted peak sound level (L_{Cpeak}) Power average value of the maximum sound pressure level in a given interval (L_{Amax}) Impulse sound pressure level (L_A) Impulse equivalent continuous A-weighted sound pressure level (L_{Aeq})	
Measurement time	1s, 3s, 5s, 10s, 1min, 5min, 10min, 15min, 30min, 1h, 8h, 12h, 24h, Manual (Max. 199h59m59s)	
Sampling Time	20.8 μ S ($L_{Aeq}, L_{max}, L_{min}$) 100ms (L_A)	
Data clear function	Pause, and a function that deletes preceding 3 or 5 sec. data Memory start : Selectable Auto or Manual A marker can be set to start and stop the measurement at any specified moments.	
Timer function	Liquid crystal and Backlight (128x64 points) Display range : 4digits display Display cycle : display Period ; 1s Bar display : display Period ; 0.1s Warning : Over ; +3dB from upper limited scale Under ; -0.6dB from lower limited scale Battery display : 5 steps display Date : year / month / day / hour/minute/second	
Outputs	AC output : ϕ 2.5 Jack Output : 1Vrms (FS) Output impedance : 600 Ω Load impedance : more than 10k Ω DC output : ϕ 2.5 Jack Output : 2.5V (FS), 0.25V/10dB, Output impedance : 50 Ω Load impedance : more than 10k Ω	
RMS detection circuit	True RMS detection circuit (computing type)	
Processing	Digital	
Pause	Normal pause function, as well as the function of canceling the data before pausing the measurement, are available.	
Data Storage Functions	Sound pressure level or Processed values stored in built-in Memory or Memory card. Manual Storage : Sound level, Calculation value, Memory time, Store the Sampling Time to Built-in memory or on Memory card. Auto Storage : Sampling interval 100ms, 200ms, sound level, L_{eq} etc. Processing Card : Storage of calculation results	
I/O	Direct output to printer, control and output data to computer Digital output of real-time noise waveform with USB interface.	
Comparator Output	Comparator Function with threshold level.	
Battery Type	Four 1.5V Alkaline cells IEC type LR6, Optional AC adapter Battery life : Alkaline dry cell ; Approx.9 hours when Switch on a back light ; Approx.1/3 Consumption current : Approx.150mA (When input 6V) at Calculation OFF.	
Operating temperature	-10 ~ 50 $^{\circ}$ C 30% ~ 90%RH (no condensation)	
Size	86 mm (W) x 285 mm (H) x 46 mm (D)	
Weight	Less than Approx.450g (Including batteries)	

Attribution card	• 1/1 and 1/3-octave Real-time Analysis Card - Applicable standards : JIS C1514 (IEC 61260) : Class1 - Measurement mode : Sound pressure level (L_A) , Equivalent continuous Sound pressure level (L_{Aeq}), Sound exposure level (L_A), Maximum sound pressure level (L_{max}) (One of the measurement modes selected as above is displayed.) - Frequency analysis band : 1/1 - octave filter : 16Hz, 31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500Hz, 1kHz, 2kHz, 4kHz, 8kHz, AP 1/3 - octave filter : 12.5Hz, 16Hz, 20 Hz, 25 Hz, 31.5Hz, 40Hz, 50Hz, 63Hz, 80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, 6.3kHz, 8kHz, 10kHz, 12.5kHz, 16kHz, AP
Option Program card	• FFT Analysis Card - Frequency span : 2kHz, 5kHz, 10kHz, 20kHz - Time window : Rectangular, Hanning - Analysis line : 400 - Zoom : x1, x2, x4 - Processing : Sound pressure level, Linear average value, Max, • RSR card (Real sound recording card) - This card enables automatic recording with specified level and time, namely adding the function of recording real wave data. The data is recorded in WAVE file format (48kHz 16bit Mono), easily corresponding to most common application software of acoustic analysis, as well as displaying its greatest force in all kinds of acoustic analysis.

Option	
Conversion transfor	Tripod exclusively for sound level meter
Sound calibrator	
BNC output cable	Extension cable
AC adapter	USB interface cable
Program cards	
Sound calibrator	TYPE 2127
Tripod exclusively for sound level meter	NA-0333
BNC output cable	BC-0071
Extension cable	BC-0046
AC adapter	AC-1026
FFT Analysis Card	NA-0038F
RSR Card (Real Sound Recording Card)	NA-0038R
USB interface cable	BC-0038PC
Data management software	NA-0038M
Conversion transfor	WT-51E

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ACO CO.,LTD. <http://www.aco-japan.co.jp/>



Sound level meter TYPE 6236 Precision Sound level meter TYPE 6238

Capture the sound

Overwhelming cost competitiveness.
Sound level meter with high functionality
and high reliability.

ACO CO.,LTD.

Excellent cost performance, beating down the equivalent

In accordance with growing environment conservation, the evaluation of environmental noise such as traffic noise or industrial equipment noise, or better understanding of the labor health environment at offices, factories, etc are getting more important than ever before. Also, due to the heightened consciousness to capture sounds related to the human sensibilities, such as quietness or sound quality as a part of the product, it is required to measure and analyze more accurately in the fields of product development of various industries such as automobile and electric appliances. Measurement functions includes A weighted sound pressure level L_A , equivalent continuous A weighted sound pressure level L_{Aeq} , and A weighted sound exposure level L_{AE} , and it is possible to perform measurement for almost all the values of evaluation. The main body has SD card slot and function can be added using the program card (SD card). In addition to the standard 1/1-1/3 octave real-time analysis card, various program card, such as FFT analysis card, are available as optional items.

Equipped with a function of displaying NC-curve with evaluated NC index

by inserting Real-time 1/1 or 1/3-octave Analysis Card, evaluated NC index is displayed in real time, empowering the evaluation of on-site noise measurement.

Percentile sound level (L_N)

any 5 selectable values is available.

Measurement of Equivalent continuous A-weighted sound pressure level (L_{Aeq})

measurement of environmental noise required to secure occupational health.

Wide linearity range of 100dB

covers wide range of 20~130dB.

Equipped with an USB Ver2.0 function

allows data processing for PC.

Backlight LCD screen for high

visibility and easy-on-the eye display.

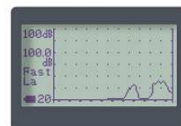
Timer function

measurement can be paused or restarted at any point of time by installing the function.

Excellent cost performance, beating down the equivalent

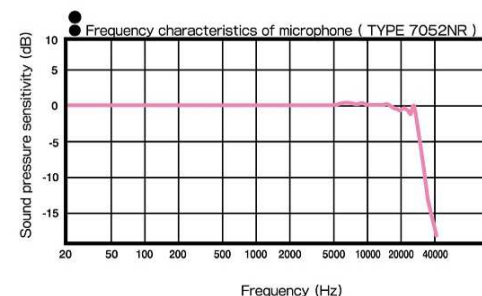
covers most measurands in current criteria.

Example of the display for TL (Time level)



Large digital display

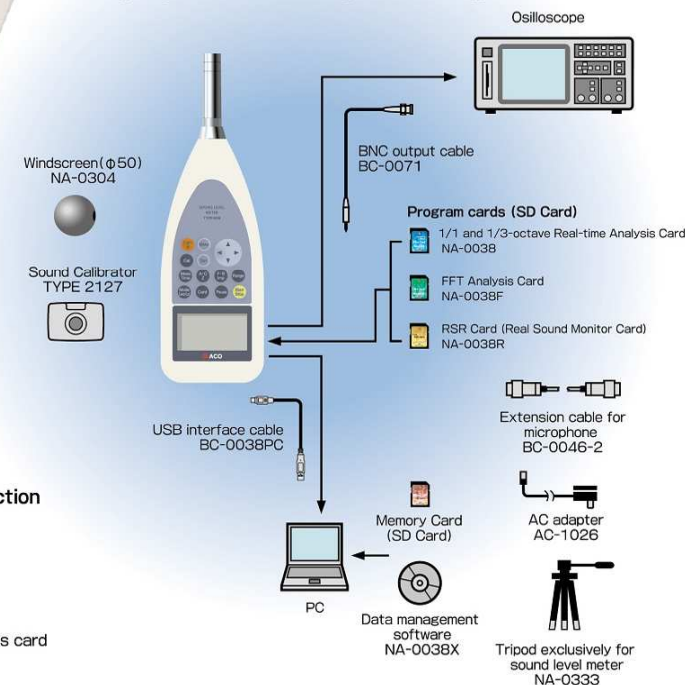
SD card slot



Configuration

1. Main body
2. Memory Card (SD Card)
3. 1/1 and 1/3-octave Real-time analysis card
4. Windscreen
5. Carrying case
6. Four 1.5V Alkaline cells IEC type LR6
7. Hand strap
8. Instruction manual

【 System configuration 】



Equipped with a memory function

realized by in built-in SD card



1/1 and 1/3-octave Real-time analysis card



Abundant program cards (Option)

FFT analysis Card
RSR card (Real sound recording Card), etc.



Example of the display for 1/1 and 1/3-octave Real-time analysis card



Example of the display for FFT analysis Card

