Class 1 Sound Level Meter NL-63 (with low-frequency sound measurement function)
Class 1 Sound Level Meter NL-53
Class 2 Sound Level Meter NL-43

RION

TENTATIVE

Exploring the possibility of Noise Measurement

Class 2
Sound Level Meter
NL-43

Class 1
Sound Level Meter
NL-53

Class 1 Sound Level Meter
(With low-frequency sound
measurement function)
NL-63

"Connect" is the keyword of RION's new sound level meters.

Newly equipped with LAN terminals, the NL-43 series offer various enhanced functions to connect to other communication devices and to maximize the effectiveness of noise measurement tasks. The user interface is designed to be intuitive and easy to understand for the ultimate in user-friendliness.
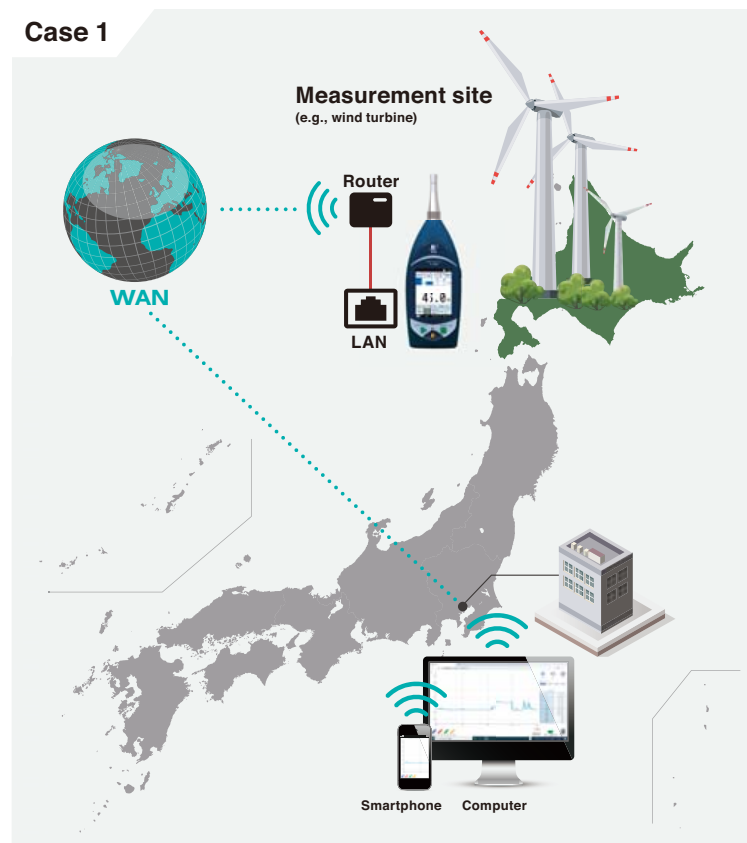
3.5-inch
Color LCD with touch panel

3.5 inch + Touch

3 hardware keys
START/STOP   PAUSE/CONT

Physically operated keys for reliable measurement execution.

The NL-43 series sound level meter and its LAN connectivity facilitate

Case 1

Measurement site
(e.g., wind turbine)

Router
WAN
LAN

Smartphone   Computer

Case 2

Remote location such as office

Smartphone   Computer

WAN

Router
LAN
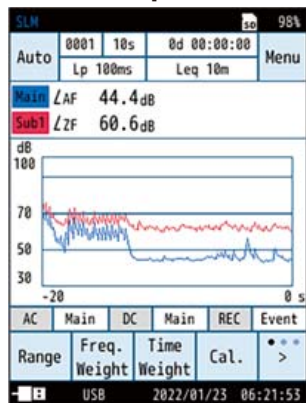
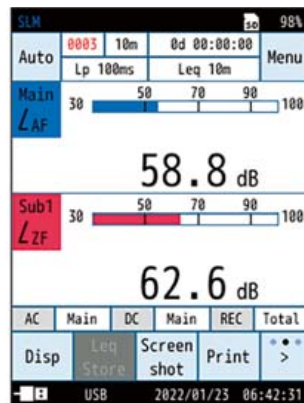Measurement site
(e.g., machinery and equipment in a factory)
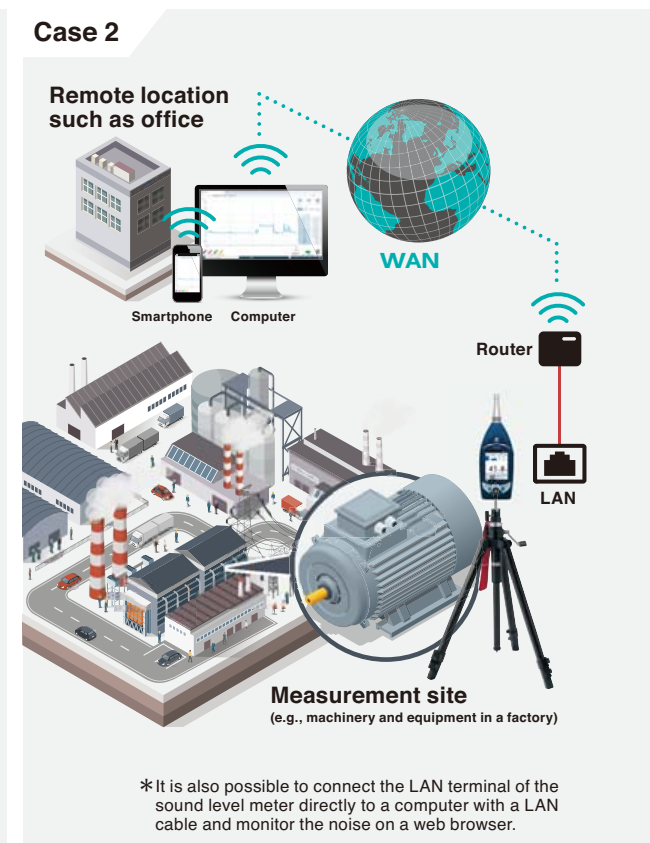
＊It is also possible to connect the LAN terminal of the sound level meter directly to a computer with a LAN cable and monitor the noise on a web browser.
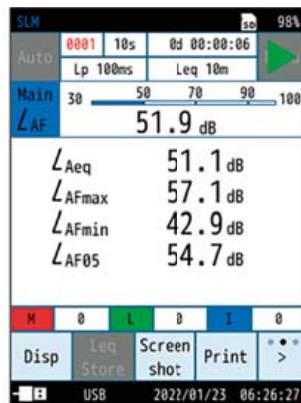

Intuitive operation without the need to refer to manual
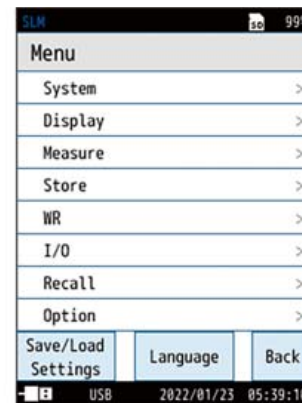
Measurement display
(Level-Time graph)

Measurement display
(instantaneous SPL, 2 channels)
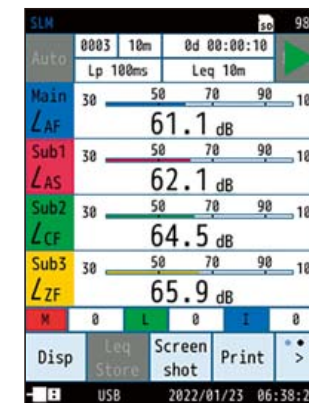
Parameter screen
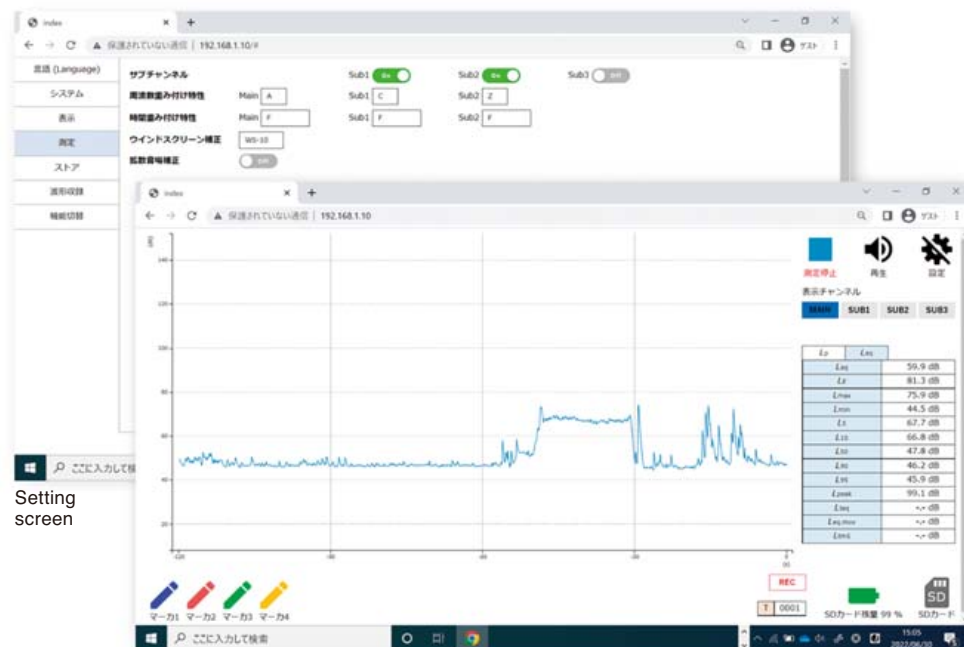(calculated values)

Menu screen

New Feature

Simultaneous measurement for up to four channels.

Set different frequency weighting and time weighting characteristics for each channel to record instantaneous SPL and calculated values.
A single unit can measure up to 4 channels simultaneously, allowing users to reduce their working time.

the remote access enabling users to monitor noise

Web browser

Setting screen

Measurement screen (Time-Level graph display, calculated value display)

Viewing Method

Enter the IP address set by the sound level meter in the web browser to access.
∗When accessing via the Internet (WAN), router settings are required in addition to the sound level meter settings.

Feature-packed interface

LAN terminal

By connecting to a network, remote connection via web browser of PC or smartphone is established.
You can check status of the unit, view and acquire measurement data, and listening to real-time sound.

∗NX-43EX is required for NL-43/53
∗NX-43WR is required for listening to sound

Bottom view

DC IN connector
I/O connector∗
AC/DC Output

USB Type-C connector

Compatible with USB power supply from mobile battery unit. Enables acquisition of measurement data or settings changes via communication commands.

∗RS-232C, comparator output, trigger input

SD card slot

Right-side view

USB Type-C

PCs can read the SD card inside the sound level meter as a removable disk.
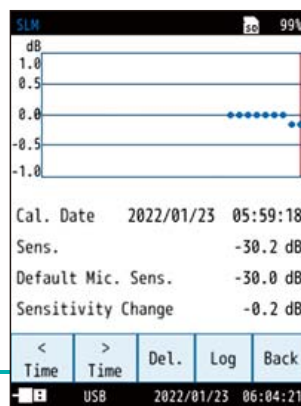

New Feature

View and manage a unit's calibration history and save to SD card

Tracking changes in microphone sensitivity leads to reliable data management.

SD card

Water resistance

IP54 water-resistant performance (except for microphone)

Helps reduce risk of failure due to sudden rain showers, etc.

∗Mounting the all-weather windscreen or rainproof windscreen boosts the water resistance performance of the entire unit, allowing the microphone to meet IPX3 specifications.

IEC

Comply with the international standards
IEC 61672-1, ANSI/ASA S1.4

Capable of various noise measurements
Newly enhanced functions help achieve your tasks more comprehensively, with less effort

A range of options to extend functionality
— Frequency analysis functions available as option. —

Optional program function list

Installing the optional programs adds the following functions:

Extended function program
NX-43EX

Compatible models
NL-43
NL-53
NL-63 (pre-installed)

✳Note: Once installed, the NX-43EX program cannot be uninstalled.

● **Auto store function**

This function allows simultaneous, automatic, continuous measurements in L_p (instantaneous value), L_{eq} calculation (calculated values such as equivalent continuous sound pressure level, percentile sound levels, maximum sound pressure level). Each data is saved to an SD card in CSV format. Data can be managed using the AS-60 data management software for environmental measurements and loaded and displayed using spreadsheet or other software.

┌ Newly added function ┐

L_p store cycle	10 ms	25 ms	100 ms	200 ms	1 s

Following features are newly added to conventional model.

● **Three types of trigger functions**

Measurement starts when a trigger is detected.
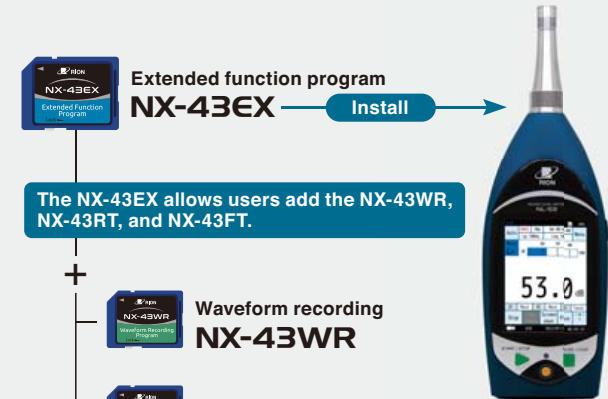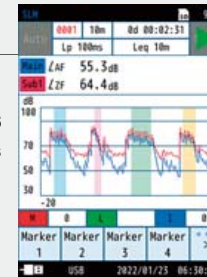
- Level trigger
- Timer Auto
- External trigger

● **LAN function**

Allows remote operation of the sound level meter or remote assessments of real-time conditions.

LAN WAN

● **Four types of marker functions**

Users can highlight sections for future lookup/reference.

Extended function program **NX-43EX** → **Install**

The NX-43EX allows users add the NX-43WR, NX-43RT, and NX-43FT.

+

Waveform recording **NX-43WR**

FFT analysis **NX-43FT** — Coming Soon

Octave, 1/3 octave band analysis **NX-43RT** — Coming Soon

Wave form recording program
NX-43WR

Compatible models
NL-43✳
NL-53✳
NL-63

✳NX-43EX required for NL-53/NL-43

This function enables users to record sounds while processing sound levels. Recorded data can be played back on computers and used for frequency analysis (uncompressed waveform WAVE file). The data can be processed with waveform analysis software such as AS-70 for graphing, sound pressure calculations, frequency analysis, file output, and sound file playback. In addition, 240 Hz and 1200 Hz are added for NL-63. This realizes FFT analysis in higher resolution and longer recording duration in low frequency sound measurement.

Newly added function

Sampling frequency (24 bit or 16 bit)	240 Hz	1200 Hz	12 kHz	24 kHz	48 kHz
	For NL-63 only		NL-43/53/63		

Other optional programs

Coming Soon

FFT analysis program **NX-43FT**
Compatible models NL-43✳/NL-53✳/NL-63

Octave, 1/3 octave real-time analysis program **NX-43RT**
Compatible models NL-43✳/NL-53✳

Octave, 1/3 octave real-time analysis program **NX-63RT**
Compatible models NL-63

✳NX-43EX required for NL-53/NL-43

✳ Windows is a trademark of Microsoft Corporation.   ✳ Specifications subject to change without notice.

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