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



## Exploring the possibility of Noise Measurement

Class 2 Sound Level Meter

Class 1 Sound Level Meter (

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

**NL-63** 



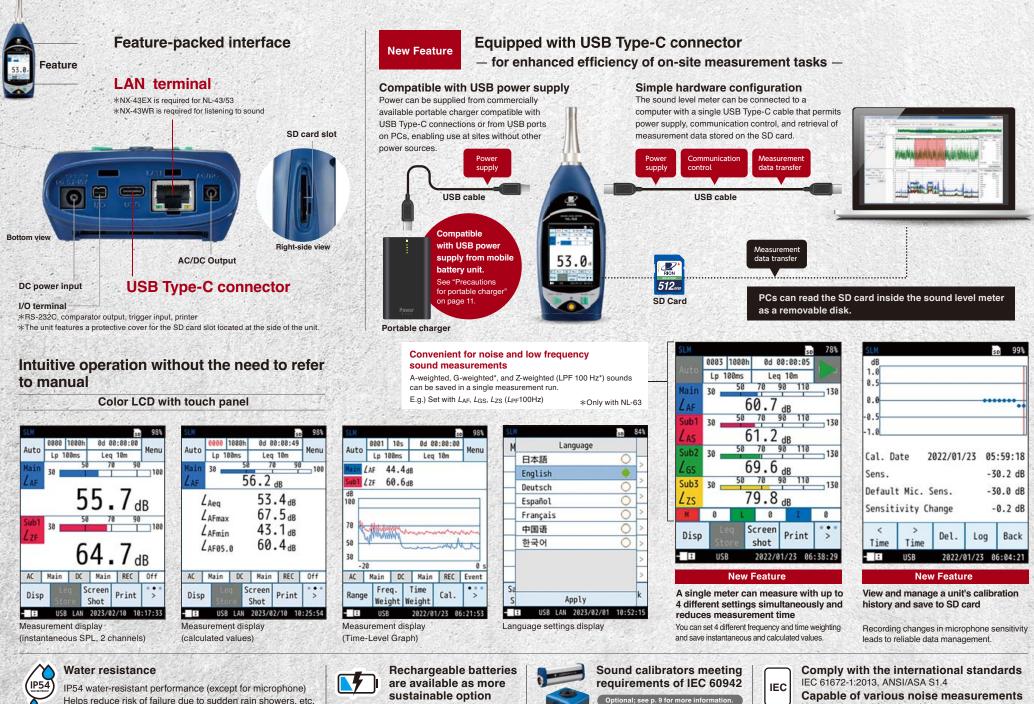
# **"Connect"** is the keyword of RION's new sound level meters.

The meter can be accessed from anywhere in the world, enabling remote noise monitoring while in the office!

The user interface has been designed to be intuitive and easy to understand for the ultimate in user-friendliness.

> Newly equipped with LAN terminals, the meters offer various enhanced functions to connect to other communication devices and to maximize the effectiveness of noise measurement tasks.

\* The meter features a protective cover for the terminal located at the bottom of the unit.



## Helps reduce risk of failure due to sudden rain showers, etc. \*Mounting the all-weather windscreen or rainproof windscreen boosts the water resistant

performance of the microphone unit to meet IPX3 specifications.

Newly enhanced functions help achieve your tasks

more comprehensively, with less effort



## Auto store function

This function allows simultaneous and continuous measurements in  $L_p$  (instantaneous value) and  $L_{eq}$  calculation (calculated values such as equivalent continuous sound pressure level, percentile sound levels, maximum sound pressure level).

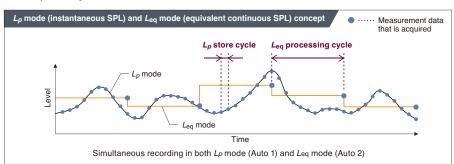
 ► Newly added function ¬

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

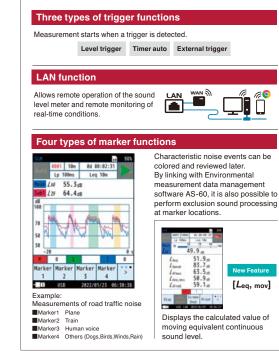
## Upgrade function from conventional model

Compatible with long-term environmental measurements —allows recordings of up to 1,000 hours (1 month) or longer!

Example of recording: Approximately 8,500 hours (354 days) of recording possible with  $L_P$  store cycle of 100 ms and use of 32 GB SD card.



## Newly added features



## Comparator function

Allowable power dissipation 300 mWl.

## This function turns on when the open collector output exceeds the set value [Maximum input voltage 24 V, Internal resistance approx. 480 $\Omega$ ,

## Continuous data output function

This function enables the continuous acquisition of instantaneous calculated and processed values during USB, RS-232C and LAN communication. It is convenient for designing users' own control programs where data has to be transferred continuously from the meter to the computer.

# Extended function program NX-43EX



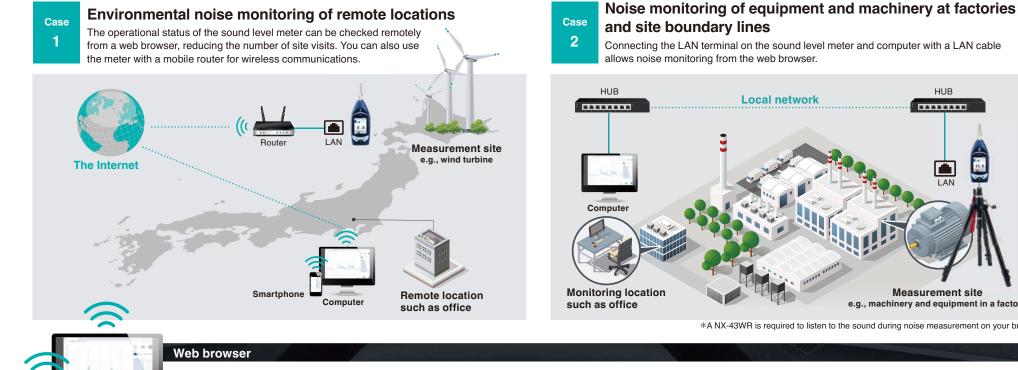
Compatible models

NL-53 NL-63 (pre-installed)

\*NX-43EX required for NL-53/NL-43

## 512 MB

The NX-43EX is supplied on the 512 MB SD card. The 512 MB SD card can be used as a memory card after installing the program.

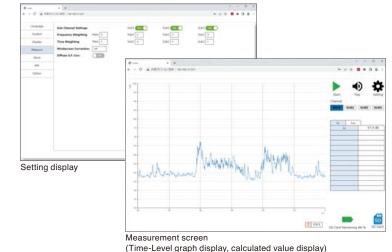


By connecting to a network, remote connection via web browser of PC or smartphone is established.

Sections of characteristic sounds can be color-marked

Marker function

• View and acquire measurement date • Remote operation of the sound level meter (measurement settings, start and stop of measurement, time adjustment, etc.) Main function Real-time audio playback (with optional NX-43WR, Supported by only Google Chrome)



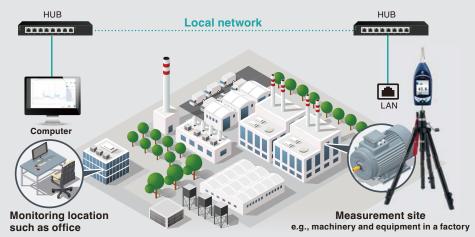


## File download

Stored data can be retrieved remotely. \*Downloads are limited to one file at a time.

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Connecting the LAN terminal on the sound level meter and computer with a LAN cable



\*A NX-43WR is required to listen to the sound during noise measurement on your browser.

Waveform recording

NX-43WR

Compatible models

NL-43\* / NL-53\* / NL-63

2 GB

The NX-43WR is supplied on the 2 GB SD

card. The 2 GB SD card can be used as a

memory card after installing the program.

\*NX-43EX required for NL-53/NL-43

program

NX-43WR

## 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 level calculations, frequency analysis, file output, and sound file playback.

## **Recording Modes**

## Ideal for long-term monitoring of low frequency sound

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.

## Sampling frequency (24 bit or 16 bit)

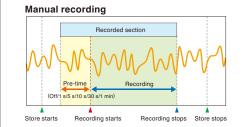
Newly add	ed function			
240 Hz	1200 Hz	12 kHz	24 kHz	48 kHz
For NL-63 only			NL-43/53/63	3

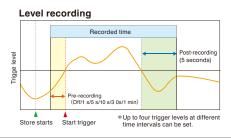
#### Maximum recording time

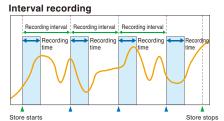
(Assumes certain settings for auto store mode, 16 bit, and Lp store cycle of 100 ms; ) \*For NL-63 only

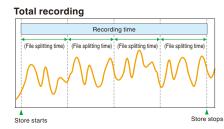
	100 1101 )		0		
Memory card Sampling frequency	512 MB	2 GB	32 GB		
48 kHz	1 h	4 h	74 h		
24 kHz	2 h	9 h	146 h		
12 kHz	4 h	18 h	278 h		
1200 Hz*	24 h	100 h	1520 h		
240 Hz*	41 h	165 h	2520 h		
Recording in 24 bit creates files 1.5 times larger than 16-bit recordings.					

Accordingly, the maximum recording time is reduced to 2/3.









## FFT analysis enables sound level measurements for each frequency.

## FFT analysis program NX-43FT



Compatible models NL-43\*/NL-53\*/NL-63 \*NX-43EX required for NL-53/NL-43

#### 512 MB

The NX-43FT is supplied on the 512 MB SD card. The 512 MB SD card can be used as a memory card after installing the program.

The analysis frequency range is 20 kHz with frequency resolution of 2.5 Hz (8,000 spectrum lines). Saved analysis results can be loaded and shown in an overlay graph display together with current analysis data. The maximum zoom ratio is x40. The peak list display shows up to 8 peaks of frequency lines.

FT         co         344           Manu         -         Leq 10m         Menu           -         Leq 10m         Menu         Menu           9577.5Hz         101.9         dB         dB           d8         x1         LINEAR         Menu         Menu	Sub1 /CF 124.0dB Sub3 /AS 12	Menu 36.7 <sub>dB</sub>
Manu - Leq 10m Menu 9577.5Hz ZzF 101.9 dB	Manu - Leq 10m Main (AF 126.0dB Sub7 (ZF 13 Sub7 (CF 124.0dB Sub3 (AS 13	Menu 36.7 <sub>dB</sub>
9377.5Hz Zzf 101.9 dB	Main (AF 126.0dB Sub7 (ZF 1) Sub1 (CF 124.0dB Sub3 (AS 1)	
2zF 101.9 dB	Sub1 (CF 124.0dB Sub3 (AS 1)	
dB x1 LINEAR		
130	INST(A) Hz	dB
110 110 110 110 110 110 110 110 110 110	POA 1. 20808.0 2. 18000.0 3. 16000.0 4. 14000.0 5. 2000.0 6. 10808.0 7. 8000.0 8. 6000.0	123.4 120.4 117.4 114.4 111.4 108.4 105.4 102.4 99.4
AC Off DC 20000.0 REC Off Range Freq. Time Cal. >	AC Main DC 20000.0 REC Disp Screen Print	Off >
Weight         Weight           II         IO         2022/11/10         17:53:48           Analysis display (x1)         III         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	- USB 2022/01/01 0 Peak list display	1:38:37

Octave, 1/3 octave

real-time analysis

NX-43RT

Compatible models

NL-43\*/NL-53\*

\*NX-43EX required for NL-53/NL-43

512 MB

The NX-43RT is supplied on the 512 MB SD

card. The 512 MB SD card can be used as a

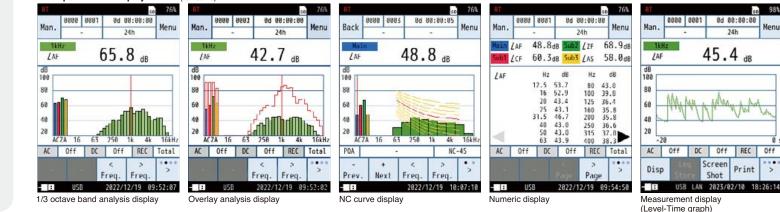
memory card after installing the program.

program NX-43RT

## Both allow measurement compliant IEC 61260-1:2014 Electroacousutics – Octave-band and 1/N (fractional) - octave-band filters Part1:Specifications

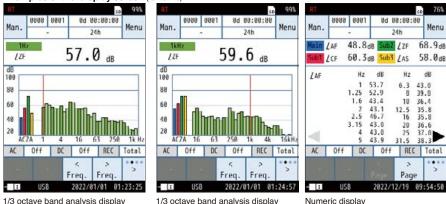
It has a function to read out the saved analysis results, superimpose it on the graph being analyzed, display the graph of the NC curve required for evaluating indoor noise, and calculate and display the NC value. Using the environmental measurement data management software AS-60RT enables recalculation and data management on a computer. It is also possible to output the voltage (AC out, DC out) of the arbitrarily selected band.

Examples of the display screen (tentative)



The NX-63RT enables octave, 1/3 octave band analysis from 1 Hz for insight on cause of low-frequency noise which is out of audible range. The instantaneous value can be saved as well as calculated data.

Examples of the display screen (tentative)



1/3 octave band analysis display1/3 octave band analysis(low frequency range)(high frequency range)

Numeric display (1 Hz~)

## Octave, 1/3 octave real-time analysis program NX-63RT



512 MB

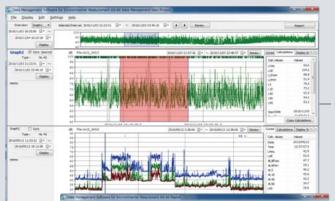
The NX-63RT is supplied on the 512 MB SD card. The 512 MB SD card can be used as a memory card after installing the program.

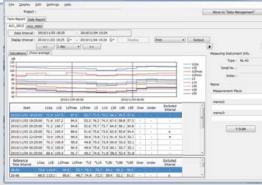
## Data management software for environmental measurement AS-60

Free trial Softwares Now available on our website

This software enables the graph display of measurement data, arithmetic processing, excluded sound processing, preparation of reports, file output, and playback of real sound files for data stored by sound level meters (NL-43/53/63, NL-42A/52A/62A, NL-42/52/62, NL-21/22/31/32).

- Easy to use
- Reports easy to prepare
- Simultaneous display of multiple data items (up to 8 data items)
- Data stored in a data recorder can be loaded (CSV file for DA-40 Viewer)
   Data combination





#### Report preparation screen

#### Recommended computer specifications (Common for AS-60/60RT)

CPU	Intel Core i5 2 GHz or higher		
RAM	2 GB or more (4 GB recommended)		
DISPLAY	XGA (1024 x 768) or more, at least 65 536 colors		
OS	Microsoft Windows 10 Pro 64 bit, 11 Pro 64 bit		

\*The AS-60/60RT software requires the USB digital rights management key (a hardware key bundled with software).

## Data management software for environmental measurement (Includes the octave and 1/3 octave data management software) AS-60RT

In addition to the functions provided by the AS-60, the AS-60RT offers functions needed to manage data saved to computer by the NX-43RT/63RT, NA-28 or SX-A1RT.



## Supported models (Only auto store data are supported, excl. DA-40 Viewer)

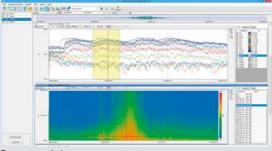
Hard ware Software	AS-60	AS-60RT
NL-43*1/53*1/63	•	٠
NL-42A*2/52A*2/62A	•	٠
NL-42*2/52*2/62	•	٠
NL-21/22/31/32	•	٠
DA-40 Viewer	•	٠
SX-A1RT		٠
NX-63RT		۲
NX-43RT		٠
NX-62RT		•
NX-42RT		•
NA-28		•

\*1 The NX-43EX is also needed. \*2 The NX-42EX is also needed.

## Waveform analysis software AS-70

This software allows you to load stored WAVE files from a RION sound level meter, vibration meter or data recorder. Octave, 1/3 octave, and FFT analyses can then be performed.

## Playback of the real sound files is also possible.



Frequency analysis screen



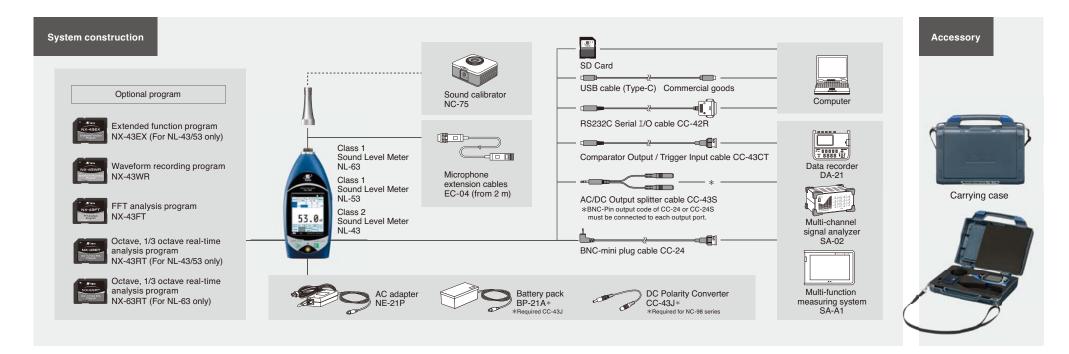
#### Frequency analysis screen

#### Specifications

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Waveform	Calculations	Maximum value, Minimum value, Average value, RMS,
analysis		Variance, Differential and integral calculus, HPF, LPF
Frequency weighting		Z, A, C, G, C to A, Lvz (vertical) (JIS C 1510),
		Lvxy (horizontal) (JIS C 1510)
FFT	Analysis points	32 to 65 536 points
analysis	Display data	Power spectrum, Power spectral density, Spectrogram
Time weig	ghting	10 ms, F, 630 ms, S, 10 s
Octave	Applicable	IEC 61260-1: 2014 class 1 (JIS C 1513-1: 2020 class 1)
band	standards	
analysis	Analysis	Octave band 0.5 Hz to 16 kHz (16 bands)
	frequency range	1/3 octave band 0.4 Hz to 20 kHz (48 bands)

Recommended computer specifications		
CPU	Intel Core i5 2 GHz or higher	
B.4.4		

RAM	2 GB or more (4 GB recommended)
HDD	20 GB free or more (100 GB or more recommended)
DISPLAY	XGA (1024 × 768) or more
OS	Microsoft Windows 10 Pro 64 bit, 11 Pro 64 bit



## **Peripheral devices**



Specifications			Class 1 Sound Level Meter NL-63	Class 1 Sound Level Meter NL-53	Class2 Sound Level Meter NL-43
Applicable standards			IEC 61672-1: 2013 class 1, ISO 7196: 1995, ANSI/ASA \$1.4-2014/Part1 class 1, JIS C 1509-1:2017 class 1, JIS C 1516: 2020 class 1 ISO 7196: 1995 CE Marking • EMC Directive Directive 2014/30/EU EN 61326-1:2013 • RoHS Directive Directive 2011/65/EU EN 61326-1:2013 • Low Voltage Directive Directive 2014/35/EU EN 61010-1:2010/A1:2019 UKCA Marking, China RoHS, KC mark, VCCI Class B	IEC 61672-1: 2013 class 1, ANSI/ASA \$1.4-2014/Part1 class 1, JIS C 1509-1: 2017 class 1, JIS C 1516: 2020 class 1	IEC 61672-1: 2013 class 2, ANSI/ASA S1.4-2014/Part1 class 2 JIS C 1509-1: 2017 class 2, JIS C 1516: 2020 class 2
Measurement function			-		•
measurement lunction	Instantaneous valu	10	Simultaneous measurement of up to four conditions (Main channel, Sub1 to Sub3 channels) with selected time weighting and frequency weighting Time-weighted sound pressure level L <sub>p</sub>	•	
	Calculated value	Te	Equivalent continuous sound pressure level: <i>L</i> <sub>eq</sub> , I-time-weighted equivalent continuous sound level: <i>L</i> <sub>leq</sub> , Moving <i>L</i> <sub>eq</sub> : <i>L</i> <sub>eq</sub> , mov Sound exposure level: <i>L</i> <sub>E</sub> , Maximum sound level: <i>L</i> <sub>max</sub> . Minimum sound level: <i>L</i> <sub>min</sub> . Percentile sound level: <i>L</i> <sub>N</sub> . Peak sound leve: <i>L</i> <sub>peak</sub> . Takt-max sound level: <i>L</i> <sub>m5</sub>	Equivalent continuous sound level: $L_{eq}$ , I-time-weighted equit Moving $L_{eq}$ : $L_{eq}$ , $m_{ov}$ * <sup>2</sup> , Sound exposure level: $L_E$ , Maximum Percentile sound level: $L_{Peak}$ Peak sound level: $L_{peak}$ . Takt-max	ralent continuous sound level: $L_{leq}^{*2}$ , sound level: $L_{max}$ , Minimum sound level: $L_{min}$ ,
Microphone	Туре		UC-59L	UC-59	UC-52
	Sensitivity level (re	presentative value)	-27 dB	-27 dB	-33 dB
Measurement level rang	le		A-weighting: 25 dB to 138 dB, C-weighting: 33 dB to 138 dB, G-weighting: 43 dB to 138 dB, Z-weighting: 50 dB to 138 dB, C-weighted peak sound level: 60 dB to 141 dB, Z-weighted peak sound level: 65 dB to 141 dB	A-weighting: 25 dB to 138 dB, C-weighting: 33 dB to 138 dB, Z-weighting: 38 dB to 138 dB, C-weighted peak sound level: 55 dB to 141 dB, Z-weighted peak sound level: 60 dB to 141 dB	
Self-generated noise A-weighting C-weighting			17 dB or less	17 dB or less	19 dB or less
			25 dB or less	25 dB or less	27 dB or less
	Z-weighting		42 dB or less	30 dB or less	32 dB or less
	G-weighting		35 dB or less	-	
			1 Hz to 20 kHz	10 Hz to 20 kHz	20 Hz to 8 kHz
			A, C, G, Z	A, C, Z	
Filter	Digital processing		High-pass filter Low-pass filter Low-pass filter Cutoff frequency: 100 Hz, 500 Hz	-	
Time weighting			F (Fast), S (Slow), I (Impulse), 10 s	F (Fast), S (Slow), I (Impulse)*2	
Input range			Automatic switching		•
E	Linner range		70 dB to 130 dB can be set in 10 dB increments		
Bar graph display	Upper range		20 dB to 60 dB can be set in 10 dB increments		
Compliant interval	Lower range			•	
Sampling interval Calibration			Lp, Leq, Le, Lmax, Lmin, Lpeak, Leq; 20.8 µs (Sampling frequency: 48 kHz), L <sub>N</sub> : 100 ms (Lp), 1 s (Leq), Leq, mov; 1 s (Leq), Ltm5; 5 s (Lmax) A reference signal is input using sound calibrator NC-75/NC-74 or pistonphone NC-72B/NC-72A, and the signal input sensitivity is adjusted.	•	•
	-		Up to 30 calibrations can be managed in the calibration history, and saved to an SD card		-
Reference signal output			1 kHz	•	•
to external devices Correction function	Output level Windscreen correc	ction function	Bar graph upper limit -6 dB Corrects the influence on the frequency response when the windscreen is installed.	•	•
	Diffuse sound field	correction function	Corrects the influence on the frequency response when used in a diffuse sound field.	•	•
Delay time			After the operation to start measuring, the device starts measuring after the specified time elapses (OFF, 1, 3, 5, 10 s)	•	•
Back erase function			Excludes, from the calculation, data from the specified time before using this function (OFF, 1, 3, 5 s, May not be used together with auto store mode and waveform recording)	•	•
Display			Backlit 3.5-inch TFT-LCD QVGA * With touch panel function (resistive membrane type) Numerical display update frequency: 1 s, Graph showing time and sound level / bar graph refresh interval : 100 ms	•	•
Store	Manual store		Data for measurement results are stored manually in single address increments.	•	•
		mber of data	Internal memory: max. 1000 sets SD Card: depends on the capacity of the SD Card *1	•	•
	Me	easurement time	10 s, 1, 5, 10, 15, 30 m, 1, 8, 24 h, User Setting (1 s to 24 h)	•	•
	Auto store*2		Instantaneous values (L <sub>p</sub> store) and processed values (L <sub>eg</sub> store) are stored continuously on the SD card and automatically at preset intervals.	•	•
		store interval	Off, 10 ms, 25 ms, 100 ms, 200 ms, 1 s	•	•
	-	calculation interval	Off, 10 ms, 25 ms, 100 ms, 200 ms, 1 s Off, 10 s, 1, 5, 10, 15, 30, 1, 8, 24 h, or User Setting (Min. 1 s to max. 24 h)		•
		mber of data	SD card: Data can be saved with store names from 0000 to 9999		•
		unoti ui udld	OD GARG, DATA GAR DE SAVEU WITH STOLE HAINES HOTH VOUD TO 3355		

						Same content as NL-63	
Data format		CSV file		•		•	
Data recall		Browses stored data and screenshot images		•		•	
Memorizing Settings		Setting information can be saved to the internal memory or SD card	and recalled at startup or at a specified time	•		•	
Waveform recording*2*3	File format	Uncompressed waveform WAVE file		•		•	
	Sampling frequency	Select 48 kHz, 24 kHz, 12 kHz, 1200 Hz or 240 kHz		Select 48 kHz, 24 kHz or 12 kHz			
	Data length	Select 24 bit or 16 bit		•		•	
Outputs	AC output	Output voltage: 1 V rms at the output level range	Enables simultaneous output of DC output and AC output	•		•	
	DC output	Output voltage: 2.5 V, 25 mV/dB at the output level range	Enables simultaneous output of DC output and AC output	•		•	
	Output range	Can be linked to the bar graph upper limit, or set from 70 dB to 130 dB in 10 dB increments		•		•	
	Comparator*2	The comparator output turns on when the specified channel exceed	s the set level				
		(Maximum input voltage 24 V, internal resistance approx. 480 Ω, Allowable power dissipation 300 mW)		•		•	
RS-232C Communicatio	วท	Measurement values can be acquired and settings can be changed	by using communication commands	•		•	
USB	Communication	Measurement values can be acquired and settings can be changed	by using communication commands	•		•	
	Data transfer Enables the transferring of data by making the computer recognize the SD card as a removable disk		•		•		
LAN*2	Communication	Measurement values can be acquired and settings can be changed by using communication commands		•		•	
	Data transfer	Data on an SD card can be transfered to a computer		•		•	
	Web browser display	Via a web browser, settings can be changed and measured values displayed. Via Google Chrome on PC, audio can be played.*3		•		•	
Data	Type of data Instantaneous value	p		•		•	
continuous	Processed value	L <sub>eq</sub> , L <sub>max</sub> , L <sub>min</sub> , L <sub>peak</sub>	eq, L <sub>max</sub> , L <sub>min</sub> , L <sub>peak</sub>			•	
output*2	Output interval	100 ms (0.1 s)	00 ms (0.1 s)			•	
Power supply		4 × AA batteries, power supply to DC jack and USB port		•		•	
	Operating time	Alkaline battery LR6: Approx. 12 hours		Alkaline battery LR6: Approx. 16 hours			
	(at 23°C, ECO setting)	Ni-MH rechargeable battery HR6: Approx. 12 hours		Ni-MH rechargeable battery HR6:	Approx. 16 hours		
		Portable charger: Approx. 20 hours of power at 5000 mAh		Portable charger:	Approx. 24 hours of power at 5000 mAh		
		*When making Auto store mode and ECO settings The operating time varies depending on the device settings and the battery manufacturer		*When making Auto store mode*2 and ECO settings			
				The operating time varies depending on the device settings and the battery manufacturer		ufacturer	
	AC adapter	NE-21P (Input: 100 to 240 V AC, 50/60 Hz, Output: 12 V DC)		•		•	
	External power supply voltage	5.7 V to 15 V (rated voltage 12 V)		•			
		USB port: 5 V (See precautions on mobile battery usage) Approx. 3 W (With NE-21P usage)					
	Primary side (100 V side) power			•			
consumption							
Operating temperature	Temperature	–10 °C to 50 °C	-10 °C to 50 °C			•	
and humidity range	Humidity	10 % to 90 % RH (no condensation)	10 % to 90 % RH (no condensation)			•	
Dustproof and waterproof	of performance*4	IP rating: IP54 (excluding microphone)		•		•	
Dimensions, weight		Approx. 265 mm (H) × 83.5 mm (W) × 34.5 mm (D), approx. 400 g (i	ncluding batteries)	Approx. 258 mm (H) × 83.5 mm (W) × 34.5 mm (D), approx. 400 g (including batteries)		ies)	
Accessories		Carrying case ×1, Windscreen WS-10 ×1, Windscreen fall prevention rubber ×1, Hand strap ×1,		Carrying case x1, Windscreen WS-10 x1, Windscreen fall prevention rubber x1, Hand strap x1,			
		Size AA alkaline batteries x4, SD card 512 MB		Size AA alkaline batteries x4, SD card 512 MB (NX-43EX preinstalled model only)			

## Options

Product name	Product number	Compatible models
Extended Function Program (Inst.on 512 MB SD card)	NX-43EX	NL-43/53
Waveform Recording Program (Inst.on 2 GB SD card)	NX-43WR	NL-43/53/63
Octave-1/3 Octave Real-time Analysis Program (Inst.on 512 MB SD card)	NX-43RT	NL-43/53
Octave-1/3 Octave Real-time Analysis Program (Inst.on 512 MB SD card)	NX-63RT	NL-63
FFT Analysis Program (Inst.on 512 MB SD card)	NX-43FT	
512 MB SD Card	MC-51SD1	
2 GB SD Card	MC-20SD2	
32 GB SD Card	MC-32SP3	
AC adapter (100 V to 240 V AC)	NE-21P	
Battery pack (Using four D alkaline batteries)	BP-21A	
Microphone extension cable	EC-04 series	
BNC pin output cable	CC-24/CC-24S	NL-43/53/63
Printer cable	CC-42P	
RS-232C serial I/O cable	CC-42R	
Comparator Output / Trigger Input Cable	CC-43CT	
AC/DC Output Splitter Cable	CC-43S	
DC Polarity Converter	CC-43J	
USB cable (Type-C)	-	
Sound calibrator	NC-75	

Product name	Product number	Compatible models
Pistonphone	NC-72B	
Dedicated soft case	-	
Rubber cover for external power use	-	
All-Weather Windscreen	WS-15	
Windscreen mounting adapter	WS15006	NL-43/53/63
Rain-protection Windscreen	WS-16	
Tripod for sound level meter	ST-80	
Tripod extension rod (For ST-80)	ST-80-100	
Tripod for All-Weather Windscreen	ST-91	
Data Management Software for Environmental Measurement	AS-60	
Data Management Software for Environmental Measurement	AS-60RT	Sec. 2.9
(Includes the Octave and 1/3 Octave Data Management Software)	Ao-oun i	See.p.8
Waveform Analysis Software	AS-70	

\*1 Use Rion fully guaranteed products. \*2 NX-43EX required for NL-43/NL-53 (sold separately) \*3 NX-43WR required (sold separately).

 $\pm$ 4 Protection against harmful dust and water splashing from any direction.

#### Precautions on portable charger usage

Avoid portable charger with functions that monitor device power consumption and are capable of interrupting the power supply. The power consumption of NL-43/53/63 is relatively low compared to smartphones; portable charger equipped with such features may erroneously terminate power supply to the unit.





RION CO., LTD. is recognized by the JCSS which uses ISO/IEC 17025 as an accreditation standard and bases its accreditation scheme on ISO/IEC 17011. JCSS is operated by the accreditation body (IA Japan) which is a signatory to the Asia Pacific Accreditation Cooperation (APAC) as well as the intermational Laboratory Accreditation Cooperation (APAC) as well as the intermational Laboratory Accreditation cooperation (APAC) as well as the intermational Laboratory Accreditation cooperation (APAC) as well as the intermational Laboratory Accreditation Cooperation (APAC) as well as an intermational MRA compliant JCSS operator with the accreditation number JCSS 0197.

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

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