

# Playbook of NL-28

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# Product family

## Previous model

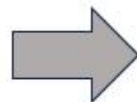
### <Middle end>

- NL-42 (class 2)
- NL-52 (class 1)



### <Low end>

- NL-27 (class 2)



## Current model

### <Middle end>

- NL-43 (class 2)
- NL-53 (class 1)



### <Low end>

- NL-28 (class 2)

# Difference between NL-27 and NL-28

	NL-27	NL-28
<b>Design</b>	Toy-like	Classy
<b>Ease of use</b>	Needs getting used to	Intuitive operation
<b>Accuracy</b>	Tolerance is $\pm 0.6$ dB (Equivalent to Class 2)	Tolerance is $\pm 0.3$ dB
<b>Calibration</b>	Only manual calibration	<ul style="list-style-type: none"><li>• Auto calibration</li><li>• Manual calibration</li></ul>
<b>Data transfer</b>	via dedicated cable	via USB Type-C cable



NL-27

NL-28



# Easy-to-grip shape



Easy-to-grip shape + compact



Measurement operations can be  
performed **with one hand**.



# Design with a sense of **luxury** and **reliability**

Key points of luxurious design →

- Streamlined shape
- Seamless design

B&K  
2245

RION  
NL-27



Luxury design

Cheap design



# Superior operability

Simple and intuitive operation



The NL-27 had few buttons, making it a little difficult to understand how to operate it.

# NL-28 with high accuracy

Electrical test tolerance is only  $\pm 0.3$  dB



Although it is a class 2 sound level meter,  
**the accuracy is quite high**

※ Class 2 sound level meter the NL-27 uses the same microphone UC-52 as the NL-28. However, the tolerance is  $\pm 0.6$  dB.



New



# Automatic calibration

- Calibration is completed by simply attaching the Sound Calibrator NC-75 and pressing the "CAL" button.
- Compatible with both Auto calibration and manual calibration.
- 999 calibration histories can be saved.



New

# Transfer measurement data via USB cable



USB  
Type-C

Commercially available USB cables  
can be used.

※ Power cannot be supplied via USB.



**NL-27** : Required high cost and dedicated cable and dedicated app

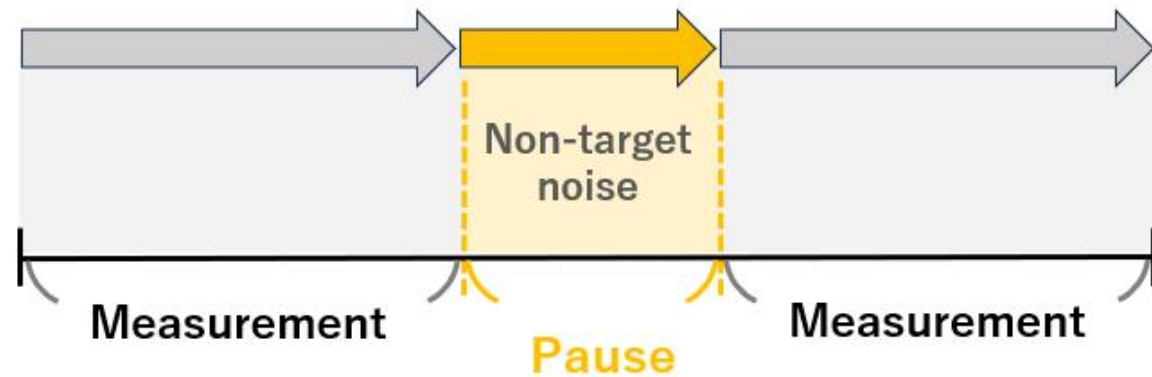
New



# Measurement pause



It is possible to exclude sounds that you do not want to measure.



※ If you pause for 3 minutes in a 10-minute measurement, you get 7 minutes worth of measurement data.



New

# OELD keeps the screen clear even at night

Organic EL display with white characters on a black background.

Measurements can be taken comfortably at night or in dark places.







# Applications

- Factory (site boundaries)
- Factory (machines)
- Laboratory
- Entertainment etc.





NL-28  
VS  
NL-43



# Difference between NL-28 and NL-43

Hardware	NL-28	NL-43
Weight/Dimensions	160 g, 200 × 50 × 34mm	400 g, 258 × 83.5 × 34.5mm
Battery life	9 h	<ul style="list-style-type: none"> <li>• 16 h</li> <li>• 24 h (mobile power supply)</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>• 2 AA batteries</li> <li>• NiMH batteries</li> </ul>	<ul style="list-style-type: none"> <li>• 4 AA batteries</li> <li>• NiMH batteries</li> <li>• AC adapter (USB-C)</li> <li>• Mobile battery</li> </ul>
Internal memory	200 data	1000 data + SD card
AC/DC Output	No	○
All-weather windscreen	No	○ (as an option)
Using extension cables	No	○ (as an option)



# Difference between NL-28 and NL-43

Function	NL-28	NL-43
Measurement condition	Lp, Leq, LE, LCpeak, Lmax	Lp, Leq, Lmax, Lmin, Lpeak
Frequency weighting	A/C	A/C/Z
Auto store	No	○
Web browser	No	○ (as an option)
Waveform recording	No	○ (as an option)
FFT analysis	No	○ (as an option)
Analysis using software	No	○
Auto calibration	○	No

Applicable standards and frequency ranges are the same



# Which one is recommended?



**NL-28 is recommended for people who...**

- need minimum measurement functionality
- have a limited budget
- are new to noise measurement

**But...**



**NL-28 has no  
extended functions**



**RION recommends NL-43 series more.**

Full of measurement functions.

Noise can be measured and analyzed  
from various perspectives.

**NL-43EX is recommended over NL-43**

If customers want the EX function later, it  
will take a time and they won't be able to  
purchase it at a good price.



# Thank you

