

# Personal Noise Dosimeter NB-14

## Workplace Noise Measurements for Industrial Safety and Health

The NB-14, personal noise dosimeter, measures noise exposure for an individual working in a noisy workplace. Dedicated software rapidly processes measurement data, displays graphs, and generate reports. Measuring and managing noise exposure for individual workers enables early detection and treatment of noise-induced hearing impairment, the adoption of personal hearing protection equipment such as earplugs and earmuffs, and the introduction of effective measures to reduce noise at the source.

## Measuring and Managing Noise Exposure for Individual Workers



- Compact and lightweight
- Easy operation
- Automatic calibration
- USB rechargeable
- Simple report generation

## Easy operation

### Procedure of noise exposure measurement



Automatic sound calibration  
(before measurement)



Attachment



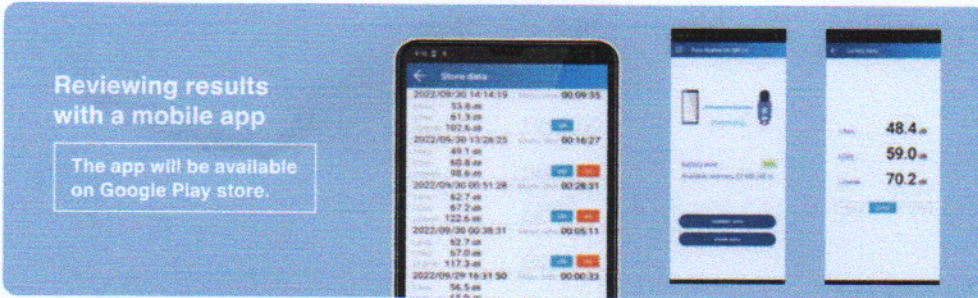
Measurement



Automatic sound calibration  
(after measurement)

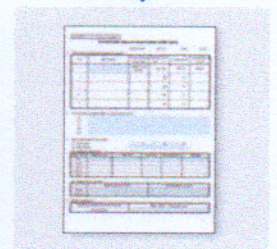


Dedicated USB cable  
Uploading data to software  
(AS-05 Viewer)



### Reviewing results with a mobile app

The app will be available  
on Google Play store.



Measurement result report is  
generated

## Data Management Software AS-05 Viewer

**DOWNLOAD** Available for free download from the RION website

The AS-05 Viewer Data Management Software reads data measured by the NB-14 Personal Noise Dosimeter into a computer for viewing measurement data and outputting reports.

### Main functions

- Device management and settings
- Reading data from the NB-14
- Viewing measurement data (can be output in CSV format)
- Preparation of measurement results reports (can be output as Excel files)

### Measurement results report

Personal noise exposure measurement results report					
Creation date: 2022/09/29 8:00					
1. Personal noise exposure measurement results					
No.	Object work	Start/end time Max. time	Ear with/without level (dB)	D (noise dose)	Normalized time of exposure
1		08:00/17:00 90:00	85.0 dB	50.0 %	90:00
2			dB	%	
3			dB	%	

## Specifications NB-14

Compliance	IEC 61252 : 2017, IEC 61672-1: 2013 class 2, JIS C 1509-1: 2017 Class 2. Enables measurements in compliance with ISO 9612.
Measurement functions (simultaneous measurement and processing)	Equivalent-continuous A-weighted sound pressure level $L_{Aeq}$ Equivalent-continuous C-weighted sound pressure level $L_{Ceq}$ C-weighted peak sound level $L_{Cpeak}$ Dose as percentage of permissible noise level exposure limit (A-weighted sound pressure level)
Microphone	Measurement microphone (representative sensitivity: -33 dB)
Store cycle	1 s
Sound level range of measurement	Equivalent-continuous A-weighted sound pressure level 58 dB to 143 dB Equivalent-continuous C-weighted sound pressure level 58 dB to 143 dB C-weighted peak sound level 75 dB to 146 dB
Frequency range of measurement	20 Hz to 8 kHz
Display	Power status, measurement status, overload/under range detection,* and noise exposure displayed with LED illumination. * Shock detection function: When the device detects a shock exceeding the preset threshold, the LED will illuminate, and the shock vibration event will be recorded to internal memory because such shock vibrations can influence measurement results.

Internal memory	Stores data for approximately 48 hours of measurement.
Power source	Rechargeable lithium ion battery (secondary battery) Continuous operating time: ≥12 hours
Operating temperature/humidity range	Temperature: -10 °C to 50 °C Humidity: 10 % to 90 % RH (no condensation)
Size and weight	85 (H) × 43 (W) × 22 (D) mm, Approx. 85 g (excluding attachment holder)
Dustproof and waterproof performance	IP54 (except microphone)
Accessories	Dedicated USB cable* Dedicated windscreen Alligator clip holder * Allows settings for the NB-14 to be made from a computer and transfers measurement data to the computer. The USB cable has an NB-14-dedicated connector on one end and a USB Type A terminal on the other end. A separate battery recharger (commercially available product) is required to recharge the NB-14.
Options	Sound calibrator (NC-75)

## Related products

The NC-75 can be used for pre- and post-measurement calibration.  
Use it for day-to-day management of the NB-14.

### Sound Calibrator NC-75



Compact and lightweight

High precision

IEC 60942 Annex B

Ideal for working environment measurements at both outdoor and indoor worksites and for noise measurements of noise sources and workplace noise. Complies with IEC 60942 Annex B.

### Sound Level Meter NL-27



Ultra compact

Ultra lightweight

High performance



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 International Laboratory Accreditation Cooperation (ILAC). The Quality Assurance Section of RION CO., LTD. is an international 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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