

Measure on site. Confirm on site

A single sound level meter enables measurement, decay curve display, and reverberation time calculation.

Reverberation Time Program

NX-43RV

Evaluate acoustic characteristics including speech clarity in meeting rooms, halls, classrooms, and other spaces.

Integrated impulse response method

Generate an impulse sound and measure the decay of acoustic energy to calculate the reverberation time.

Interrupted noise method

Generate and stop noise from a speaker, and measure the decay of sound pressure level to calculate reverberation time.

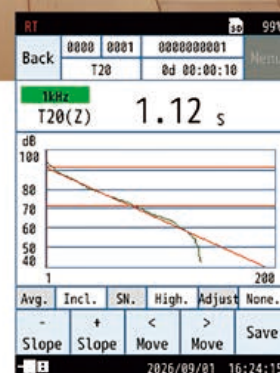


- Supports the integrated impulse response method and interrupted noise method.

Instantly calculates reverberation times such as T_{20} , T_{30} , T_{15} , and EDT (Early Decay Time).

- Automatically estimates and displays an approximate line from the reverberation decay curve.

The position and slope of the approximate line can be adjusted manually while visually checking the decay curve.



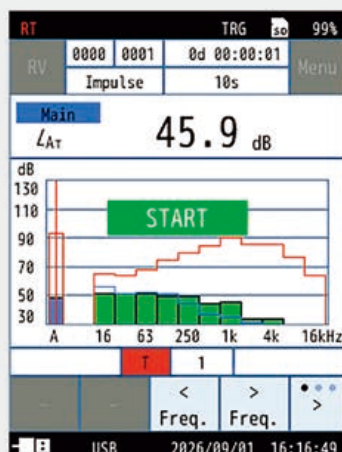
Decay curve screen

Display screen



The NX-43RV is supplied on an SD card.

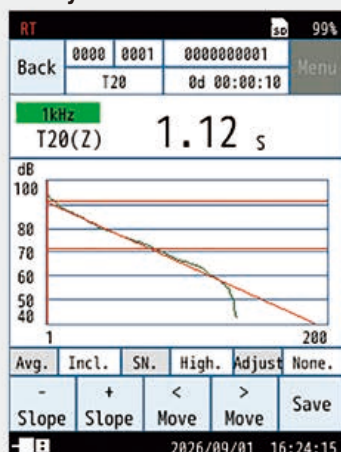
Measurement screen



Stores time-series data (Auto L_p Store data)*.
Sound level data (up to 4 channels) and octave band 1/3 octave band analysis results.

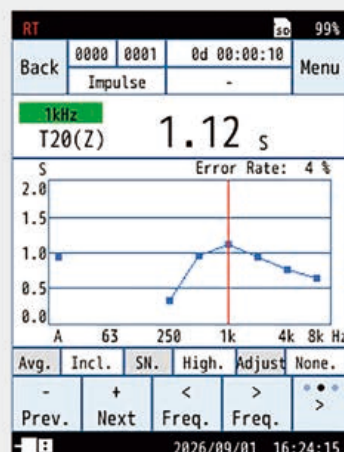
*Data recorded at 5 ms intervals.

Decay curve screen



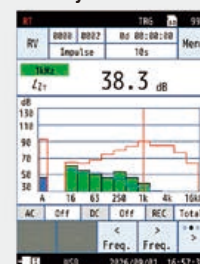
Stores reverberation decay curve data.
Calculated from time-series data (Auto L_p Store data)*.

Reverberation time recall screen



Stores reverberation time data.
Calculated from reverberation decay curve data.

Overlay screen



Graphs of data measured in Auto mode can be recalled and overlaid on the currently measured or displayed graph for comparison. This is useful for checking background noise.

Specifications

Compatible model	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
Applicable standards	IEC 61260-1:2014 class 1, ANSI/ASA S1.11-2014/Part 1 class 1, ISO 3382-2:2008, JIS C 1513-1:2020 class 1
Measurement function	Measurement quantities: Sound pressure level, octave and 1/3 octave real-time analysis, decay curve, reverberation time, result management, reverberation tie recalculation, and arithmetic averaging of selected results.
Decay curve	Decay curve(Integrated impulse response method) L_{DC} , Impulse Decay curve(Interrupted noise method) L_{DC} , Noise * Calculated using L_{eq} calculated values at 5 ms intervals.
Reverberation time	Reverberation time calculated from the -5 dB to -25 dB range of the decay curve: T_{20} Reverberation time calculated from the -5 dB to -35 dB range of the decay curve: T_{30} Reverberation time calculated from the -5 dB to -20 dB range of the decay curve: T_{15} Early decay time calculated from the 0 dB to -10 dB range of the decay curve: EDT* * Integrated impulse response method only
Time weighting	10 ms (fixed) * Used for screen display, trigger level, instantaneous value L_p , and calculated values L_{max}/L_{min} .

Trigger mode	Starts measurement upon the following trigger.
Level trigger	Starts measurement when the specified channel exceeds the specified level.
Channel	Sound level (channel can be selected)
Band	Band (frequency band can be selected)
Pre-time	1 s (fixed)
Number of repetitions	10 (Up to 40 store addresses can be recorded per one RV store name.)
Display	
Reverberation time calculation result graph	
Display range (vertical axis)	
Upper limit	0.5 s, 1 s, 2 s, 4 s, 8 s, 16 s, 32 s
Lower limit	0 s (fixed)
Frequency band display range (horizontal axis)	63 Hz to 8 kHz (Octave band) 50 Hz to 10 kHz (1/3 Octave band)
Decay curve time graph	
Level range (vertical axis)	Integrated impulse response: The upper and lower limits of the graph are automatically determined from the maximum and minimum values recorded in the reverberation decay curve file. Interrupted noise: Determined in conjunction with the bar graph range setting.
Time range (horizontal axis)	Zoom in/out: 0.5 s, 1 s, 2 s, 4 s, 8 s, 16 s, 32 s
Waveform recording	The waveform recording function* can be used in parallel with store function. * Waveform Recording Program NX-43WR required separately.

Product Introduction



Sound Level Meter NL-43EX, NL-53EX, NL-63

Add reverberation time measurement functionality to evaluate room acoustics and perform sound measurements with a single sound level meter. (NX-43RT/63RT required separately.)



Power Amplifier Nor282

A battery-powered portable power amplifier compatible with the Nor283 and featuring a built-in signal generator.



Dodecahedron Loudspeaker Nor283

A high-output omnidirectional speaker.



ORIGAMI impulse sound source

A simple impulse sound source for reverberation time measurements, made by folding a dedicated sheet of paper.



RION CO., LTD. is recognized by the JCSSL which uses ISO/IEC 17025 as an accreditation standard and bases its accreditation scheme on ISO/IEC 17011. JCSSL is operated by the accreditation body (IAJapan) 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 JCSSL operator with the accreditation number JCSSL 0197.

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

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