

Multi-channel Sound Level Measurement Sound Level Meter Unit Model UN-04A

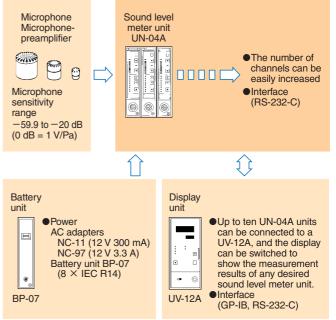


The UN-04A is a sound level meter unit suitable for use with all major measurement microphones and preamplifiers from RION. It has switchable front-panel and rear-panel inputs.

By selecting the appropriate microphone, the UN-04A can be used for general as well as for precision sound level measurements, in compliance with applicable standards. The AC and DC outputs allow the use of equipment such as a data recorder or analyzer, and a separate I/O connector serves for connection to the printer DPU-414 (option) or to a computer for data transfer and external measurement control (RS-232-C interface).

- 30 mm width slim case
- Pulling-down panel making setting of measurement sensitivity easy
- Compact & light weight, no rack required: 33 (W) \times 149 (H) \times 210 (D) mm \cdot 850g
- Frequency weighting: A, C, Flat
- Time weighting: FAST, SLOW, 10 ms
- Microphone sensitivity range: -59.9 to -20 dB (0 dB=1 V/Pa)
- The number of channels can be easily increased by just sliding in the guides
- Built-in low-pass & high-pass filter
- Option: Display unit (UV-12A), Battery unit (BP-07) & Filter unit (NX-06)

Measuring system







Up to ten UN-04A units can be connected to a UV-12A, and the display can be switched to show the measurement results of any desired sound level meter unit.

The UV-12A incorporates a GP-IB and a RS-232-C interface, allowing the use of a computer to control measurement operation of connected UN-04A units and to gather measurement data.

Specifications Display:

GP-IB Interface:

5 digits, update cycle 1s

NC-97

NC-11

BNC

Applicable standards: IEEE 488 GP-IB cable Interface cable: RS-232-C Interface: Applicable standards: EIA RS-232-C CC-87, CC-87E (option) Interface cable: Ambient Conditions for Operation: 10 to +50 ℃. 90 %RH DC +9 to +15 V Power: AC 85 to 250 V, 47 to 440 Hz

AC Adapters

NC-11 series

NC-97 series

NC-11: 100 V AC

NC-11A: 120 V AC NC-11B: 220 V AC

NC 97 series:

•NC-11 series: 12 V DC, 300 mA

12 V DC, 3.3 A NC-97: 100 to 120 V AC

Dimensions & Weight: $6 \times 15 \times 21$ cm, Approx. 1.3 kg



UN-04A Specifications

Applicable standards: JIS C 1505-1988 (electrical characteristics only) IEC 60651: 1979 Type 1 (electrical characteristics only) Inputs:			Outputs: AC output (rear panel) Output connector type: Output impedance: Output voltage: Maximum output voltage Dynamic range: Load impedance: DC output (rear panel) Output connector type: Output impedance: Output voltage: Maximum output voltage Dynamic range: Load impedance: Interface: Function: Standard:
Input connectors: Front-panel input and rear-panel input (1 each) Input impedance: 100 kΩ Maximum input voltage: ± 12 V Connector type: 7-pin Microphone bias output: 30 V, 60 V, 200 V Preamplifier power supply output: ± 12 V, 5 mA			
Measurement level range (with microphone UC-53A): A weighting: 27 to 128 dB (JIS), 24 to 128 dB (IEC) C weighting: 33 to 128 dB (JIS), 30 to 128 dB (IEC) Flat response: 38 to 128 dB (JIS), 35 to 128 dB (IEC) (Frequency range 20 Hz to 20 kHz) Frequency range: 2 Hz to 100 kHz (±3 dB) Frequency weighting: A, C, Flat Level range selector: Depending on the microphone, the following range settings are available.			
Microphone sensitivity range (0 dB = 1 V/Pa) Full-scale level (dB)		Transmission:	
-29.9 to -20		80 to 130	Ambient conditions for operation
-39.9 to -30		90 to 140	Power requirements: Voltage:
—,	-49.9 to -40		Suitable AC adapters:
-59.9 to -50		110 to 160	Suitable battery unit:
Calibration:			Dimensions:
Gain calibration: Calibration signal:	Calibration possible for microp to -20 dB. For other ranges, Generated by internal signal	conversion is required.	Weight:
Galloration orginal.	(sine wave, 1kHz ± 2 %) AC output voltage 0.5 Vrms ± 2 % DC output voltage 3.2 V ± 1 %		Optional Accessories: Filter unit NX-06 AC adapter NC-11/NC-97
RMS detection: Time weighting Display: Overload indication:	True rms circuit FAST, SLOW, 10 ms 11-step LED display of instar	NC-11: 100 V AC 12 NC-11A: 120 V AC 12 NC-11B: 220 V AC 12 NC-97: 100 - 240 V A	
Indicator lights when signal waveform saturation occurs (full-scale point +8 dB) Inherent noise (with inputs shorted): 2 Hz to 100 kHz: 4 μ V rms or less 20 Hz to 20 kHz: 2 μ V rms or less A and C weighting: 1.5 μ V rms or less Internal filter: 20-Hz high-pass filter (-12 dB/oct)			Battery unit: BP-07 Display unit: UV-12A Printer: DPU-414 RS-232-C interface cable (CC-87: 25-pin male c computer ser
	20-kHz low-pass filter (-12 c		CC-87E: 9-pin female

Approx. 600 Ω 1 V rms ± 2 % (at full-scale point) voltage: ±5 V peak (no overload) 80 dB (2 Hz to 100 kHz), 85 dB (20 Hz to 20 kHz) 10 kΩ or more BNC Approx. 50 Ω \pm 3.5 V \pm 1 % (at full-scale point), 0.5 V/10 dB voltage: +5 V (no overload) 40 dB (2 Hz to 100 kHz), 60 dB (20 Hz to 20 kHz) 10 kΩ or more Data output and remote control EIA RS-232-C standard Asynchronous, half-duplex operation: -10 to 50 °C, 90 %RH or less

> 9 to 15 V DC (120 mA) NC-11/NC-97 series BP-07 33 (W) \times 149 (H) \times 210 (D) mm (without protruding parts) Approx. 850 g

/NC-97 series AC 12 V DC, 300 mA 240 V AC 12 V, 3.3 A 2A 414 e cable CC-87 series

- n male connector, for connection to printer DPU-414 and outer serial port
- female connector, for connection to computer serial port

Specifications subject to change without notice.



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