



Wide Range Measurement From 1 to 20 000 Hz



Measure Frequencies from 1 to 20 000 Hz. Measure Low-Frequency Sound and Noise with a Single Unit.

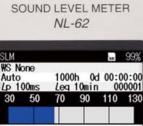
With the auto store function included as standard, as well as a timer function and external power supply support, the NL-62 is ideal for continuous measurement. Designed for intuitive ease of use, there is no more need to consult the manual during a measurement. The large 3-inch color screen is bright and easy to read. Sudden rainfall is also no problem, thanks to the water-resistant construction. Using the optional octave and 1/3 octave band real-time analysis program NX-62RT (under development), the unit can even operate as a frequency analyzer. The High-Precision Sound Level Meter NL-62 supports all your measurement needs.

Equipped with non-slip rubber grips

Large color LCD screen

Three-inch LCD screen with a touch panel High resolution screen is easy to see indoors or outdoors and even in the dark.







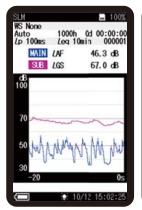


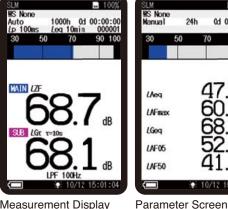
255 mm

10 inch

No paper manual is needed.

The manual and a help function can be easily accessed on the device.





/ Aea

LAFmax

LGeq

LAF05 AF50

Measurement Display (T-L graph)

Measurement Display (low-frequency sound)

Water-resistant (Except for the microphone)

Guaranteed water-resistant to at least level IP54 (resistant to spraying water). Helps reduce failures caused by sudden rain showers.



Use of rechargeable batteries

System (Language)

Store

Option

Top 🔿 Þ

Help ⇔ (Display)

Manu screen

Display

Recal

I/0

Save / Print

₩R

Back ⇔ 💵

1111

0d 00:00:10

90 100

UdB

 $\mathbf{4}_{dB}$

2dB

6dB

dB

In these new models it is possible to use rechargeable batteries which make these meters environmentally-friendly. 16 hour continuous measurement is possible (when using dry alkaline batteries).

sten

Display

leasure

HELP Set the language and the

Back ⇒ Display

elp => (Display)

Top ⇒ Þ

Help screen

1/0

Save

Back ⇔ 🛙



Continuous detailed measurements for one month

This meter can be used to conduct long-term measurements, such as environmental measurements. (If an AC adapter is used)

Duration of recording NL-62

1000 h (approx. one month)

Previous model

200 h (approx. one week)

If the L_P is measured at 100 ms intervals and the L_{eq} is simultaneously measured at 10 m intervals over a 24 h period, the total size of accumulated data is approximately 74 MB (reference value)

Example of detailed recording

Functionality can be extended by a range of options

Add long-term data recording capability and frequency analysis function







1/3 octave band analysis screen (low range)

Analysis screen (x40)

Data management screen using AS-60 software

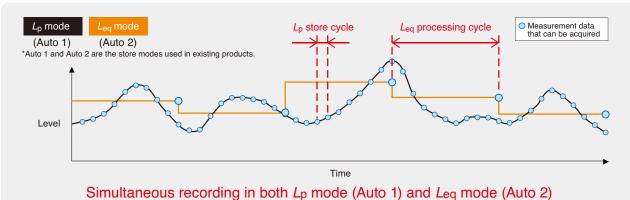
Program function list

Auto store function

This function enables continuous measurement in L_p mode (instantaneous SPL) and L_{eq} mode (equivalent continuous SPL) to be conducted simultaneously.

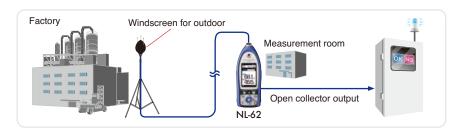


Lp mode (instantaneous SPL) and Leq mode (equivalent continuous SPL) concept



Comparator function

This function turns on when the open collector output exceeds the set value (max. applied voltage 24 V, max. current 60 mA, allowable dissipation 300 mW).



Continuous data output function

This function enables the continuous acquisition of instantaneous values and processed values during both USB and RS-232C communication.

This is a convenient function for users who can design their own control programs, such as a program to be used as an indicator.

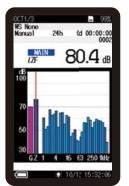
Optional program function list





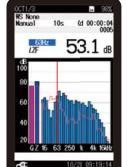
The NX-62RT is supplied on the 512 MB SD card. The 512 MB SD card can be used as a memory card after installing the program.

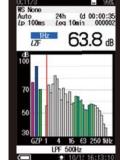
By adding a program to the NL-62, octave band and 1/3 octave band real-time analysis can be realized. Saved analysis results can be loaded and shown in an overlay graph display together with current analysis data. NC curve graph display and NC value calculation/display are also possible.





1/3 octave band analysis





20 GZP 1 4 16 63 250 MHz LFF 500Hz 1/3 octave band analysis screen (combined bands) (T-L c



Measurement screen (T-L graph)

| 1/3 octave band analysis |
|--------------------------|
| screen (low range) |

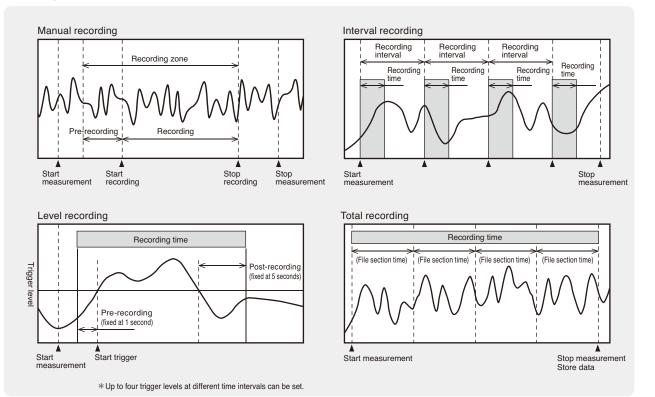
Overlay analysis screen

Waveform recording program NX-42WR

This function enables users to record sounds and processing sound to process sound levels simultaneously. Recorded data can be played on computer and used for frequency analysis. (Uncompressed waveform WAVE file)

Sampling at 48 kHz, 24 kHz, 12 kHz, Selection of 24 bit or 16 bit

Recording concept

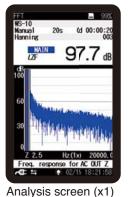


FFT analysis program NX-42FT



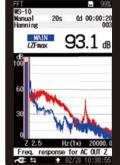
The NX-42FT is supplied on the 512 MB SD card. The 512 MB SD card can be used as a memory card after installing the program.

By adding a program to the NL-62, FFT analysis can be performed. The analysis frequency range is 20 kHz, with 8 000 spectrum lines (200 displayed). Saved analysis results can be loaded and shown in an overlay graph display together with current analysis data. Maximum zoom ratio is x40, and the top list screen can show up to 20 lines.

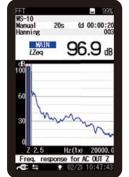


FT ______ 998 Monual 205 (d 00:00:20 Honning 002 TINGT (Z) 73.5 dB

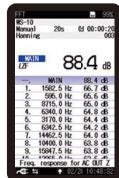
Analysis screen (x40)



Overlay analysis screen



Linear average screen



Top list screen

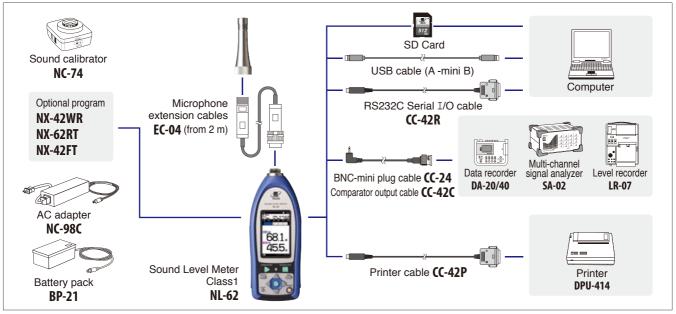
FION Program NX-42WWR

The NX-42WR is supplied on the 2 GB SD card. The 2 GB SD card can be used as a memory card after installing the program.

Maximum recording time (16 bit)

| Memory card Sampling frequency | 512 MB | 2 GB | |
|-----------------------------------|--------|------|--|
| 48 kHz | 1 h | 4 h | |
| 24 kHz | 2 h | 8 h | |
| 12 kHz | 4 h | 16 h | |

System construction



Peripheral devices

Windscreen for outdoor WS-15



This windscreen is designed for outdoor installations. It helps to reduce wind noise and is equipped with rainproof features that satisfy the **IPX3 water-resistant** specifications. It is used with a microphone extension cable. (Mounting adapter WS15006 required separately)

Rain-protection windscreen

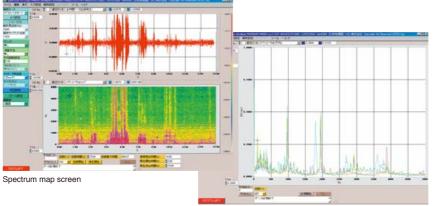
WS-16 Upcoming product

This screen protects the microphone against rain for a short period of time. The rainproof performance of this windscreen is designed to satisfy the **IPX3 water-resistant** specifications.

Waveform analysis software

CAT-WAVE (made by CATEC Inc.)

This software analyzes and stores data files (recorded by the NX-42WR) in the WAVE format. You can select to perform FFT analysis or octave band analysis.



Overlapping Screen

Sound calibrator NC-74



This Sound calibrator conforms to IEC 60942 (JIS C 1515), Class 1, providing a level of performance sufficient for calibrating the precision sound level meter.

Specifications Nominal acoustic pressure level 94 dB Nominal frequency 1 kHz

Tripod

This stand can be used for general acoustic measurements. The sound level meter and microphone can be mounted on the stand.



(For outdoor windscreen WS-15, use of ST-81 is recommended.)

| Specifications | | | | | |
|---|--|---|--|--|--|
| Waveform | Display | Scaling of time base, | | | |
| | function | differential and integral calculus | | | |
| FFT | Analysis | 64 to 32 768 points | | | |
| analysis | points | | | | |
| | Display | Power spectrum, cross-spectrum, | | | |
| | function | transfer function (amplitude), | | | |
| | | transfer function (phase), coherence function, | | | |
| | | power spectrum map, octave map, differential | | | |
| | | and integral calculus for spectral areas | | | |
| Octave | Applicable | IEC 61260 (JIS C 1514) Class 1 | | | |
| band | standards | | | | |
| analysis | Analysis | Octave band | | | |
| | frequency | 0.5 Hz to 8 kHz (15 bands), | | | |
| | range | 1/3 octave band | | | |
| | | 0.4 Hz to 10 kHz (45 bands), | | | |
| | | 1/12 octave band | | | |
| | | 0.36 Hz to 11 kHz (180 bands) | | | |
| Recommended operating environment | | | | | |
| CPU | CPU Intel Core™2 Duo 2.4 GHz or higher | | | | |
| RAM | 2 GB or more | | | | |
| | HDD 60 GB or more (free space) DISPLAY SXGA (1280 × 1024) or more | | | | |
| OS | | 80 × 1024) or more Windows XP Professional 32 bit. | | | |
| Vista Business 32 bit, 7 Professional 32 bit and 64 bit | | | | | |



Complete software for environmental measurements

Data management software for environmental measurement AS-60

Data management software for environmental measurement AS-60 enables the graph display of measurement data, arithmetic processing, exclusion sound processing, preparation of reports, output of files, and playback of real sound files.

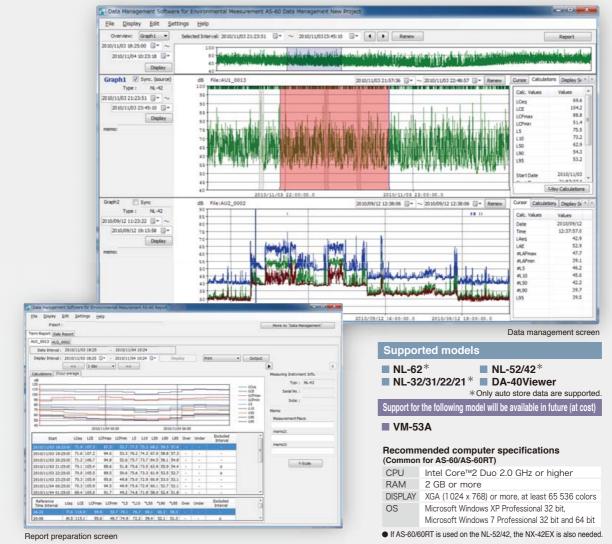
Easy to use

Reports easy to prepare

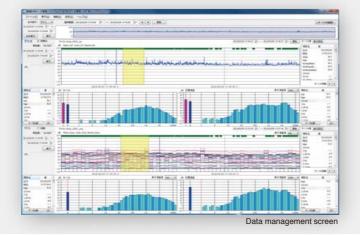
Simultaneous display of multiple **Data on the data recorder can be** data items (up to 8 data items)

loaded (CSV file for DA-40 Viewer)

Data combination



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



Adds support for handling octave band analysis data to AS-60

AS-60RT is for managing data saved with the NX-62RT/42RT or data measured with the NA-28 on a computer.

| Supported models | | |
|------------------|--------------------------------------|--|
| NX-62RT * | NX-42RT * | |
| NA-28 * | *Only auto store data are supported. | |

Specifications

| Applicable | | NL-62 | | | | |
|--|---|---|---|---|--|--|
| Applicable standards | | | Data recall | | | Allows viewing of sto |
| | | | Setup memory | | | Up to five setup config |
| | | ANSI S1.4-1983 Type 1 | 14/ | rm recording | *** | Start up via file settin |
| | | ANSI S1.4A-1985 Type 1 ANSI S1.43-1997 Type 1 | | format | ΨZ | Uncompressed wave |
| | | JIS C 1509-1: 2005 Class 1 | | pling frequer | ICV | Select 48 kHz, 24 kH |
| | | CE Marking (EMC Directive 2004/108/EC, Low Voltage Directive 2006/95/EC), | | length | , | Select 24 bit or 16 bit |
| | | | <u> </u> | DC output | | Output DC signals using |
| Measurement functions Processing (main ch) | | Simultaneous measurement of the following items, with selected time | | Output vol | tage | 2.5 V, 25 mV / dB at |
| | | weighting and frequency weighting | | AC output | | Output AC signal usin |
| | | Instantaneous sound pressure level: Lp | | | | C, Z, G weighting |
| | | Equivalent continuous sound pressure level: Leq | | Output vol | tage | 1 V (rms values) at b |
| | | Sound exposure level: LE | | Comparator | | Turns on when the o |
| | | Maximum sound pressure level: Lmax | | output | | (max. applied voltage |
| | | | | | Allows USB to be con | |
| Broood | cipa (oub ob) | Percentile sound levels: LN (0.1 to 99.9 %, 0.1-increment steps, max. 5 values) Instantaneous sound pressure level: Lp | BS-232 | C communic | ation | Allows USB to be cont Allows for RS-232C c |
| Processing (sub ch) Additional processing | | | | ntinuous outp | | Allows 101 H3-2320 0 |
| / danto | indi processing | C-weighted equivalent continuous sound level: LCeq | | of Instantaneo | | Lp |
| | | G-weighted average sound level: LGeq | data | | | Leq, Lmax, Lmin, Lpeak |
| | | C-weighted peak sound level: LCpeak | Outp | ut interval | | 100 ms,1 s |
| | | Z-weighted peak sound level: LZpeak | Print ou | t | | Printing of measurem |
| | | Power average of max. level in time weighted sound level interval LAtm5 | Power | requirements | | Four IEC R6 (size AA) bat |
| | | I-time-weighted average sound level: LAIeq | Batte | ery life (23 °C | ;) | Alkaline battery LR6 |
| | | Max. value of I-time-weighted average sound level: LAImax | | | | At the maximum *D |
| | | *Because additional processing frequency characteristics are linked to sub channel | | adapter | | NC-98C |
| | | frequency characteristics, LAtm5, LAIeq, LAImax can be selected when A | | rnal power vo | - | 5 to 7 V (rated voltag |
| | | characteristics are selected for sub channel. When C, G, or Z characteristics are | | ent consump | | Approximately 120 m |
| Measurin | a timo | 5 | Ambien conditio | | | -10 to +50 °C |
| vieasumi | gune | | | ns Humidity of / water-res | | 10 to 90 % RH (non- IP code: IP54 (excep |
| Vicrophone | Type | | perform | | IStarit | See precautions rega |
| noropriorio | Sensitivity level | | - | ions, weight | | Approx. 255 (H) x 76 |
| Measurer | ment range | | | d accessorie | s | Storage case x 1, Wind |
| | | C-weighting: 33 dB to 138 dB | | | | Hand strap x 1, LR6 (A |
| | | G-weighting: 43 dB to 138 dB | | | | |
| | | Z-weighting: 50 dB to 138 dB | Optio | ns | | |
| | | C-weighting peak sound level: 60 dB to 141 dB | | | | luct name |
| | 1 | Z-weighting peak sound level: 65 dB to 141 dB | | | | am (Inst.on 2 GB SD o |
| Inherent | A-weighting | 17 dB or less | | | | lysis program (Inst.on 512 M |
| noise | C-weighting | 25 dB or less | | | | t.on 512 MB SD card) |
| | G-weighting | 35 dB or less | vvavero | orm analysis | sonwa | re |
| | | | | d 512 MB | | |
| Frequenc | Z-weighting | | SD Car | d 512 MB | | |
| | y range | 1 Hz to 20 kHz | SD Car SD Car | d 2 GB | 0 240 | V) |
| Frequenc | cy range cy weighting | 1 Hz to 20 kHz A, C, G and Z | SD Car SD Car | d 2 GB pter (100 V t | o 240 | V) |
| Frequenc Time weig | cy range cy weighting ghting | 1 Hz to 20 kHz A, C, G and Z | SD Car SD Car AC ada Battery | d 2 GB pter (100 V t | | |
| Frequenc Time weig Level rang | cy range cy weighting ghting | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) | SD Car SD Car AC ada Battery Microph | d 2 GB pter (100 V t pack | on cab | |
| Frequenc Time weig Level ran Bar grap | cy range cy weighting ghting ge | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) | SD Car SD Car AC ada Battery Microph BNC-P | d 2 GB pter (100 V t pack none extension | on cab e | |
| Frequenc Time weig Level ran Bar grap Switching | cy range cy weighting ghting ge oh display range max | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. | SD Car SD Car AC ada Battery Microph BNC-P | d 2 GB pter (100 V t pack none extensionin output cod | on cab e | |
| Frequenc Time weig Level ran Bar grap Switching RMS dete | y range y weighting ghting ge oh display range max g of bar graph display ection circuit | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 μs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) | SD Can SD Can AC ada Battery Micropl BNC-P Compa Printer Printer | d 2 GB pater (100 V t pack none extension in output cod rator output cod cable | on cab e cable | |
| Frequenc Time weig Level ran Bar grap Switching RMS dete Sampling | y range y weighting ghting ge oh display range max g of bar graph display action circuit i cycle | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (Le, Leg, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (LN) | SD Can SD Can AC ada Battery Microph BNC-P Compa Printer Printer RS 232 | d 2 GB pter (100 V t pack none extensi in output cod rator output co cable C serial I/O | on cab e cable | |
| Frequenc Time weig Level ran Bar grap Switching RMS dete Sampling | y range y weighting ghting ge oh display range max g of bar graph display action circuit i cycle | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 us (Le, Leq., LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (LN) Measurement Law: electrical calibration performed according to IEC and JIS standards, | SD Car SD Car AC ada Batteryy Micropl BNC-P Compa Printer Printer RS 232 USB ca | d 2 GB pter (100 V t pack none extensi in output cod rator output co cable C serial I/O bble | on cab e cable | |
| Frequenc Time weig Level rang Bar grap Switching RMS dete Sampling Calibratio | y range y weighting ge gh display range max g of bar graph display action circuit i cycle wn | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L, Leq., LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (LN) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. | SD Car SD Car AC ada Batteryy Micropl BNC-P Compa Printer Printer RS 232 USB ca Sound | d 2 GB pter (100 V t pack none extension in output cod rator output of cable C serial I/O uble calibrator | on cab e cable cable | |
| Frequenc Time weig Level ran Bar grap Switching RMS dete Sampling Calibratio | y range y weighting ghting ge oh display range max g of bar graph display action circuit i cycle | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 us (Le, Lee, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (LN) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: | SD Can SD Can AC ada Battery Micropl BNC-P Compa Printer Printer RS 232 USB ca Sound Windso | d 2 GB pter (100 V t pack none extension in output cod rator output of cable C serial I/O tble calibrator reen for outco | on cab e cable cable | les |
| Frequenc Time weig Level ran Bar grap Switching RMS dete Sampling Calibratio | y range y weighting ge gh display range max g of bar graph display action circuit i cycle wn | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/lower limit in 10 dB increments. Digital processing method 20.8 μs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the | SD Can SD Can AC ada Battery Micropi BNC-P Compa Printer Printer RS 232 USB ca Sound Windsc Windsc | d 2 GB pter (100 V t pack none extension in output cod rator output cod cable CC serial I/O bble calibrator reen for outco reen mountin | on cab e cable cable loor ng ada | pter |
| Frequenc Time weig Level ran Bar grap Switching RMS dete Sampling Calibratio | y range y weighting ge gh display range max g of bar graph display action circuit i cycle wn | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. | SD Car SD Car AC ada Battery Microph BNC-P Compa Printer Printer RS 232 USB ca Sound Windso Windso Rain-pr | d 2 GB pter (100 V ti pack none extension in output cod rator output of cable CC serial I/O ble calibrator reen for outco reen mountlin otection wind | cable cable cable loor ng ada | pter |
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| Frequenc Time weig Level ran Bar grap Switching RMS dete Sampling Calibratio | y range y weighting ge gh display range max g of bar graph display action circuit i cycle wn | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards | SD Car SD Car AC ada Battery Microph BNC-P Compa Printer Printer RS 232 USB ca Sound Windsc Windsc Rain-ph Sound All-wea | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O bible calibrator reen for outcr reen mountil otection winn level meter tr ther windscr | on cab e cable cable loor ng ada dscree ripod een tri | pter n |
| Frequenc Time weig Level ran Bar grap Switchin RMS dete Sampling Calibratio | y range y weighting ge oh display range max g of bar graph display action circuit cycle n n functions | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 ls (L _P , L _{eq} , L _E , L _{max} , L _{min} , L _{peak} : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. | SD Car SD Car AC ada Battery Micropl BNC-P Compa Printer Printer RS 232 USB ca Sound Windsc Windsc Windsc Rain-pu Sound All-wea *1 Use | d 2 GB pler (100 V I pack none extensi in output cod rator output ed cable C serial I/O bble calibrator reen for outc reen mountlin otection wind evel meter tr ther windscr. | on cab e cable cable cable loor ng ada dscree ripod een trij arantee | pter n pod |
| Frequenc Time weig Level ran Bar grap Switchin RMS dete Sampling Calibratio | y range y weighting ge oh display range max g of bar graph display action circuit cycle n n functions | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , L _{eq} , L _E , L _{max} , L _{min} , L _{peak} : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button, has been present or when a user-set trioner is exceeded | SD Car SD Car SD Car AC ada Battery Micropl BNC-P Compa Printer Printer RS 232 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *1 Use *3 Prot | d 2 GB pter (100 V I pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outcr reen for outcr reen for outcr reen mountin level meter It ther windscr Rion fully gui ection agains | cable cable cable cable loor ng ada dscree ripod een trij aranted t harm | pter |
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| Frequenc Time weig Level rang Bar grap Switching RMS dete Sampling Calibratio Correction | y range y weighting ge ph display range max. g of bar graph display action circuit i cycle n n functions ie | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button has been pressed or when a user-set trigger is exceeded. When the PAUSE key is pressed to pause measurement, the preceding (user selectable) 0, 1, 3 or 5 s data are excluded from processing. | SD Cara SD Cara AC ada Battery Micropp BNC-P Compa Printer Printer Printer RS 2322 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *3 Prot Precaul Before u | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outc reen mountli otection wind level meter tr ther windscr. Rion fully gu sciton agains ions regard se, verify that | cable cable cable loor ng ada dscree ripod arantee t harm the rul | pter n pod pti dust and water spla aterproofing bber bottom cover and l |
| Frequenc Time weig Level ran; Bar grap Switchin; RMS dete Sampling Calibratio Correction Delay tim Back eras | y range y weighting ge ph display range max. g of bar graph display action circuit i cycle n n functions ie | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button has been pressed or when a user-set trigger is exceeded. When the PAUSE key is pressed to pause measurement, the preceding (user selectable) 0, 1, 3 or 5 s data are excluded from processing. Backlit semitransparent color TFT LCD display WQVGA (400 x 240 dots) | SD Cara SD Cara AC ada Battery Micropp BNC-P Compa Printer Printer Printer RS 2322 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *3 Prot Precaul Before u | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outc reen mountli otection wind level meter tr ther windscr. Rion fully gu sciton agains ions regard se, verify that | cable cable cable loor ng ada dscree ripod arantee t harm the rul | pter n pod pti dust and water spla aterproofing bber bottom cover and l |
| Frequenc Time weig Level ran; Bar grap Switchin; RMS dete Sampling Calibratio Correction Delay tim Back eras | y range y weighting ge ph display range max. g of bar graph display action circuit i cycle n n functions ie | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , L _{eq} , L _E , L _{max} , L _{min} , L _{peak} : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button has been pressed or when a user-set trigger is exceeded. When the PAUSE key is pressed to pause measurement, the preceding (user selectable) 0, 1, 3 or 5 s data are excluded from processing. Backlit semitransparent color TFT LCD display WQVGA (400 x 240 dots) *LCD with touch panel (Capacitive Touch Panel) | SD Cara SD Cara AC ada Battery Micropp BNC-P Compa Printer Printer Printer RS 2322 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *3 Prot Precaul Before u | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outc reen mountli otection wind level meter tr ther windscr. Rion fully gu sciton agains ions regard se, verify that | cable cable cable loor ng ada dscree ripod arantee t harm the rul | pter n pod pti dust and water spla aterproofing bber bottom cover and l |
| Frequenc Time weig Level ran; Bar grap Switching RMS dette Sampling Calibratio Correction Delay tim Back eras | y range y weighting ge hing ge h display range max. g of bar graph display action circuit i cycle on n functions ie se function | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , L _{eq} , L _E , L _{max} , L _{min} , L _{peak} : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button has been pressed or when a user-set trigger is exceeded. When the PAUSE key is pressed to pause measurement, the preceding (user selectable) 0, 1, 3 or 5 s data are excluded from processing. Backlit semitransparent color TFT LCD display WQVGA (400 x 240 dots) *LCD with touch panel (Capacitive Touch Panel) Numerical display update frequency: 1 s | SD Cara SD Cara AC ada Battery Micropp BNC-P Compa Printer Printer Printer RS 2322 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *3 Prot Precaul Before u | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outc reen mountli otection wind level meter tr ther windscr. Rion fully gu sciton agains ions regard se, verify that | cable cable cable loor ng ada dscree ripod arantee t harm the rul | pter n pod pti dust and water spla aterproofing bber bottom cover and l |
| Frequenc Time weig Level ran; Bar grap Switching Switching Calibratio Correction Delay tim Back eras Display Store Ma | y range y weighting ge ph display range max. ge ge of bar graph display action circuit i cycle n n functions ie se function anual | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button has been pressed or when a user-set trigger is exceeded. When the PAUSE key is pressed to pause measurement, the preceding (user selectable) 0, 1, 3 or 5 s data are excluded from processing. Backlit semiltransparent color TFLCD display WQVGA (400 x 240 dots) *LCD with touch panel (Capacitive Touch Panel) Numerical display update frequency: 1 s Bar graph update frequency: 100 ms Data for measurement results are stored manually in single address increments. | SD Cara SD Cara AC ada Battery Micropp BNC-P Compa Printer Printer Printer RS 2322 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *3 Prot Precaul Before u | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outc reen mountli otection wind level meter tr ther windscr. Rion fully gu sciton agains ions regard se, verify that | cable cable cable loor ng ada dscree ripod arantee t harm the rul | pter n pod pti dust and water spla aterproofing bber bottom cover and l |
| Frequenc Time weig Level ran; Bar grap Switching Switching Calibratio Correction Delay tim Back eras Display Store Ma | y range y weighting ge hing ge h display range max. g of bar graph display action circuit i cycle on n functions ie se function | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button has been pressed or when a user-set trigger is exceeded. When the PAUSE key is pressed to pause measurement, the preceding (user selectable) 0, 1, 3 or 5 s data are excluded from processing. Backlit semitransparent color TFT LCD display WQVGA (400 x 240 dots) *LCD with touch panel (Capacitive Touch Panel) Numerical display update frequency: 1 s Bar graph update frequency: 100 ms Data for measurement results are store manually in single address increments. Internal memory: max. 1000 sets | SD Cara SD Cara AC ada Battery Micropp BNC-P Compa Printer Printer Printer RS 2322 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *3 Prot Precaul Before u | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outc reen mountli otection wind level meter tr ther windscr. Rion fully gu sciton agains ions regard se, verify that | cable cable cable loor ng ada dscree ripod arantee t harm the rul | pter n pod pti dust and water spla aterproofing bber bottom cover and l |
| Frequenc Time weig Level ran; Bar grap Switchin; RMS dete Sampling Calibratio Correction Delay tim Back eras Display Store | y range y weighting ge oh display range max g of bar graph display ection circuit cycle on n functions le se function anual Number of data | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 µs (L _P , Leq, LE, Lmax, Lmin, Lpeak : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Compliant with IEC 61672-1 and JIS C 1509-1 standards when the windscreen is installed. Diffuse sound field correction: Correction of frequency characteristics in order to comply with standards (ANS 15.1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button has been pressed or when a user-set trigger is exceeded. When the PAUSE key is pressed to pause measurement, the preceding (user selectable) 0, 1, 3 or 5 s data are excluded from processing. Backlit semitransparent color TFT LCD display WQVGA (400 x 240 dots) *LCD with touch panel (Capacitive Touch Panel) Numerical display update frequency: 1 s Bar graph update frequency: 100 ms Data for measurement results are stored manually in single address increments. Internal memory: max. 1000 sets SD Card: depends on | SD Cara SD Cara AC ada Battery Micropp BNC-P Compa Printer Printer Printer RS 2322 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *3 Prot Precaul Before u | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outc reen mountli otection wind level meter tr ther windscr. Rion fully gu sciton agains ions regard se, verify that | cable cable cable loor ng ada dscree ripod arantee t harm the rul | pter n pod ed products, *2 NX-42 ful dust and water spla |
| Frequenc Time weig Level ran; Bar grap Switchin; RMS dete Sampling Calibratio Correction Delay tim Back eras Display Store | y range y weighting ge ph display range max. ge ge of bar graph display action circuit i cycle n n functions ie se function anual | 1 Hz to 20 kHz A, C, G and Z F (Fast) and S (Slow), I (Impulse) and 10 s Single range (Linearity range: 113 dB) Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dB increments. Digital processing method 20.8 us (L _P , L _{eq} , L _E , L _{max} , L _{min} , L _{peak} : sampling frequency: 48 kHz) 100 ms (L _N) Measurement Law: electrical calibration performed according to IEC and JIS standards, using internally generated signals: acoustic calibration performed with the NC-74. Windscreen correction: Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound field. The meter can be set to start measuring a specified time (OFF, 1, 3, 5 or 10 s) after the start button has been pressed or when a user-set trigger is exceeded. When the PAUSE key is pressed to pause measurement, the preceding (user selectable) 0, 1, 3 or 5 s data are excluded from processing. Backlit semitransparent color TFT LCD display WQVGA (400 x 240 dots) *LCD with touch panel (Capacitive Touch Panel) Numerical display update frequency: 1 s Bar graph update frequency: 100 ms Data for measurement results are stored manually in single address increments. Internal memory: max. 1000 sets SD Card: depends on the capacity of the SD Card*1 Instantaneous values (L _P mode) and proces | SD Cara SD Cara AC ada Battery Micropp BNC-P Compa Printer Printer Printer RS 2322 USB ca Sound Windsc Windsc Windsc Windsc Sound All-wea *3 Prot Precaul Before u | d 2 GB pter (100 V t pack none extensi in output cod rator output cod cable C serial I/O ble calibrator reen for outc reen mountli otection wind level meter tr ther windscr. Rion fully gu sciton agains ions regard se, verify that | cable cable cable loor ng ada dscree ripod arantee t harm the rul | pter n pod pti dust and water spla aterproofing bber bottom cover and l |
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| Data recall | | Allows viewing of stored data | | | | |
|---|------------------------|---|--|--|--|--|
| Setup memory | | Up to five setup configurations can be saved in internal memory, for later recal | | | | |
| | | Start up via file settings previously stored on SD card possible | | | | |
| Waveform recording *2 | | | | | | |
| File | e format | Uncompressed waveform WAVE file | | | | |
| Sa | mpling frequency | Select 48 kHz, 24 kHz or 12 kHz | | | | |
| Data length | | Select 24 bit or 16 bit | | | | |
| Outputs DC output | | Output DC signals using a frequency weighting characteristic selected by processing | | | | |
| | Output voltage | 2.5 V, 25 mV / dB at bar graph display full scale | | | | |
| | AC output | Output AC signal using frequency weighting selected by processing or by A | | | | |
| | | C, Z, G weighting | | | | |
| | Output voltage | 1 V (rms values) at bar graph display full scale | | | | |
| | Comparator | Turns on when the open-collector output exceeds the set value | | | | |
| | output | (max. applied voltage 24 V, max. current 60 mA, allowable dissipation 300 mW) | | | | |
| USB | 1 | Allows USB to be connected to a computer and recognized as a removable dis | | | | |
| | | Allows USB to be controlled via communication commands | | | | |
| RS-2 | 32C communication | Allows for RS-232C communication via use of a dedicated cable | | | | |
| Data | continuous output | | | | | |
| Type of Instantaneous value data Processed value | | Lp | | | | |
| | | Leg, Lmax, Lmin, Lpeak | | | | |
| Ou | Itput interval | 100 ms,1 s | | | | |
| Print | out | Printing of measurement results on dedicated printer DPU-414 | | | | |
| Powe | r requirements | Four IEC R6 (size AA) batteries (alkaline or rechargeable batteries) or external power supply | | | | |
| Ba | ttery life (23 °C) | Alkaline battery LR6 (AA): 16 h Ni-MH secondary battery: 16 h | | | | |
| | | At the maximum * Depends on the setting | | | | |
| AC | adapter | NC-98C | | | | |
| External power voltage | | 5 to 7 V (rated voltage: 6 V) | | | | |
| Current consumption | | Approximately 120 mA (normal operation, rated voltage) | | | | |
| Ambie | ent Temperature | -10 to +50 °C | | | | |
| condit | tions Humidity | 10 to 90 % RH (non-condensing) | | | | |
| | roof / water-resistant | IP code: IP54 (except for microphone) | | | | |
| , perfor | mance*3 | See precautions regarding waterproofing | | | | |
| Dime | nsions, weight | Approx. 255 (H) x 76 (W) x 33 mm(D), approx. 400 g (with batteries) | | | | |
| Suppl | lied accessories | Storage case x 1, Windscreen WS-10 x 1, Windscreen fall prevention rubber x 1, | | | | |
| | | ,,,,,,,, | | | | |

| Product name | Product number | | | |
|---|--------------------------|--|--|--|
| Waveform recording program (Inst.on 2 GB SD card) | NX-42WR | | | |
| Octave, 1/3 octave real-time analysis program (Inst.on 512 MB SD card) | NX-62RT | | | |
| FFT analysis program (Inst.on 512 MB SD card) | NX-42FT | | | |
| Waveform analysis software | CAT-WAVE | | | |
| SD Card 512 MB | SD-512M | | | |
| SD Card 2 GB | SD-2G | | | |
| AC adapter (100 V to 240 V) | NC-98C | | | |
| Battery pack | BP-21 | | | |
| Microphone extension cables | EC-04 (from 2 m) | | | |
| BNC-Pin output code | CC-24 | | | |
| Comparator output cable | CC-42C | | | |
| Printer | DPU-414 | | | |
| Printer cable | CC-42P | | | |
| RS 232C serial I/O cable | CC-42R | | | |
| USB cable | | | | |
| Sound calibrator | NC-74 | | | |
| Windscreen for outdoor | WS-15 | | | |
| Windscreen mounting adapter | WS-15006 | | | |
| Rain-protection windscreen | WS-16 (Upcoming product) | | | |
| Sound level meter tripod | ST-80 | | | |
| All-weather windscreen tripod | ST-81 | | | |
| k 1 Les Diss fully suprestend and use w 0 NV 40MD required (add separately) | | | | |

2WR required (sold separately).

lashing from any direction.

I the battery compartment lid are firmly closed.

al packing replacement is required every two years (at cost).



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