

# PRODUCT DATA

2250 Light – with Sound Level Meter Software BZ-7130 Optional Software: 1/1-oct. Frequency Analysis BZ-7131, 1/3-oct. Frequency Analysis BZ-7132 and Logging BZ-7133

2250 Light has been developed specifically for measuring occupational, environmental and product noise, while complying fully with all the relevant national and international standards.

Extensive user studies have been paired with state-ofthe-art technology to make this analyzer a robust, effective and elegant tool for those applications.

Using the large, high contrast, touch screen interface, the analyzer can easily be set up to display and measure just what is needed from the extensive list of parameters provided by the analyzer.

2250 Light comes with Sound Level Meter Software installed, measuring all parameters simultaneously within its wide 120 dB dynamic range. For frequency analysis, add the 1/1- and/or 1/3-octave software module. For time profile investigation, add the Logging software module. The optional software modules install easily and work seamlessly with the Sound Level Meter Software.



Back in the office, USB connectivity lets you use your PC to archive, manage, view or even control 2250 Light, as well as export your results to software packages such as Microsoft<sup>®</sup> Excel and Brüel & Kjær Types 7815, 7820 or 7825 for post-processing and reporting.

# **Uses and Features**

# **USES**

- Environmental noise assessment, monitoring and complaints
- Occupational noise evaluation
- Selection of hearing protection
- · Noise reduction
- · Product quality control
- General purpose Class 1 sound measurements
- Real-time analysis of sound in 1/1- and 1/3-octave bands
- Analysis of time histories for broadband parameters and spectra (Logging)

### **FEATURES**

- · Large, high-resolution, touch-sensitive screen
- 'Traffic Light' status indicator
- Plug-in rechargeable Li-ion battery
- · Data storage on plug-in memory cards
- 120 dB dynamic range up to 140 dB
- Real-time frequency analysis in 1/1-octave bands
- Real-time frequency analysis in 1/3-octave bands
- Broadband and spectrum logging
- · Logging profile display with markers
- Back-erase to delete unwanted noise events
- PC software included for archiving, export and reporting
- Robust and environmentally protected (IP 44)
- Upgrade to Type 2250 on exchange basis



# Introduction

2250 Light combines renowned Brüel & Kjær measurement excellence and the Type 2250 platform's ease of use, in an efficient and versatile sound measurement instrument. Whether you are addressing workplace noise compliance, environmental noise assessment, or product noise certification, 2250 Light offers the functionality to meet your requirements. A unique user-interface makes your measurements easier to perform with results that are easier to analyze and report.

This data sheet describes the suite of software applications available for 2250 Light. All instruments come with the Sound Level Meter Software for 2250 Light (BZ-7130) included.

**Note:** 2250 Light can be upgraded to a Type 2250 Hand-held Analyzer, to include more features and applications such as advanced logging, sound recording or reverberation time software. Please refer to Type 2250 Product Data BP 2025 for more information. The upgrade is on an exchange basis, please contact you local Brüel & Kjær representative for details.

# **Applications**

# Workplace and Industrial Hygiene Noise Measurement Applications

2250 Light was developed with special interest for the measurement of workplace noise. The comfortable and secure design feels safe in your hand. With the display located relatively close to you, the buttons fall precisely where they need to be for a one thumb operated Start, Stop and Save. The 'Traffic Light' indicator surrounding the Start/Pause pushbutton gives you an immediate visual indication of measurement status – even in the brightest sunshine. The large, high contrast, touch screen/display, lets you select parameters on the display, and 2250 Light can memorise those setups for your next measurement.



As for occupational health noise parameters, nothing was left out. 2250 Light can measure Fast and Slow, A-weighted and C-Weighted SPLs simultaneously, along with a separately weighted peak detector, so that the values you need to specify hearing protection are immediately on the display. Parallel analysis allows you to compare a 3 dB exchange rate average measurement with a selectable alternate 4, 5 or 6 dB exchange rate, including separate dose, expected dose and exposure values.

2250 Light also offers three independent threshold peak event counters, along with simultaneous Fast, Slow and Impulse RMS detectors, to assess impulsive noise.

When you add the optional 1/1-octave frequency analysis software option, you are ready to instantly assess noise control and detailed hearing protection requirements for a surveyed location. With 2250 Light there is no filter switching, or range changing, all the octaves are measured at the same instant, along with the broadband A- and C-weighted values. For even more detail, add the 1/3-octave frequency analysis option. Instantly see the maximum and average levels across 31 frequency bands spanning three decades from 12.5 Hz to 16 kHz.

Sometimes noise levels in the workplace vary dramatically, and perhaps irregularly. To assess this kind of noise it is helpful to measure and analyse a noise profile - a measurement that shows how the sound varies with time.

The Logging option for 2250 Light provides this capability in a naturally intuitive way, using simultaneous views of the complete profile and a 'zoomed-in' 100-second 'window'. Set up to five different user-defined markers anywhere in the profile, to identify noise sources or events. If you have installed either the 1/1- or 1/3-octave real-time frequency analysis options, 2250 Light seamlessly integrates the spectrum information into the noise profile.

Back at your desk after a survey, or even a single measurement, archive the measurements using the included utility program, where you can view all the results of your measurement on a Windows<sup>®</sup> compatible PC. Use the same utility program to transfer measurement results to Excel to easily produce reports, or export the results directly to Brüel & Kjær's Protector Type 7825, where you can organise and analyze the company's noise and hearing conservation program. Type 7825 calculates noise exposure according to ISO 9612.2.

So, whether you are making a simple noise survey, or supplementing noise dose measurements for noise control or hearing protection selection, 2250 Light is an easy, yet powerful tool to make you more productive, and more confident in analysing hearing conservation programs.

# **Environmental Noise Measurement Applications**

The tasks for environmental noise measurements are varied, so the instrument you pick for your measurements needs to be flexible, easy to configure, powerful and accurate. 2250 Light is all that, and more, making it ideal for a simple noise enforcement measurement one moment, then a complex environmental impact survey the next. 2250 Light is built on the core platform of the award winning design of Type 2250. It borrows the robust construction, intuitive touch screen interface, and legendary Brüel & Kjær measurement accuracy.



2250 Light with the standard Sound Level Meter software (BZ-7130) is ideal for a spot noise enforcement check. Use the large numeric display, press the conveniently located Start pushbutton, and when ready, press the same button to stop the measurement. Press the Save pushbutton, and you will not only be saving the results, but also the actual time of the measurement, its duration, and even the date and time for the last calibration of the instrument.

2250 Light can measure all the parameters needed for environmental noise, including dual frequency weightings, Fast, Slow, and Impulse Time Averaging,  $L_{eq}$ 's and a full

range of statistical distributions. But just as important, you can set 2250 Light to display just the parameters you need, then save that display so 2250 Light powers-up, tailor-made for your use, every time.

For more involved environmental applications, you'll need to add the Logging option. Now you can set the instrument to record all, or up to ten selected measurement results at intervals from one second to one day, for a duration only limited by the size of the CF or SD memory card used in the external memory slots. The display offers two simultaneous views, one of

the complete profile and a 'zoomed-in' 100-sample 'window', that are intuitively linked by the cursor.

For the precise timing of noise events, an alternative 'Fast Log' view gives you either or both of the  $L_{\rm AF}$  and  $L_{\rm Aeq}$  results for 100 ms intervals. In either the fast log, or profile view, you can define up to five different markers anywhere in the profile, to identify noise sources or events. When you use the real-time frequency analysis options, 1/1-octave or 1/3-octave, the frequency spectrum average, maximum and minimum values can be logged along with the overall values. Save and view the noise profiles on your Windows® PC with the included utility program, or for easy analysis of the noise profile, export the whole measurement to Brüel & Kjær Environmental Noise Software (Type 7820 Evaluator or Type 7821 Evaluator Light) which have built-in calculation algorithms that allow you to produce compound sound level figures from several contributions. Some may have impulse or pure tone penalties, depending on which measurement standard you choose, for example, ISO 1996, DIN 45 645, TA Lärm, NF S 31-010, or BS 4142. (See Product Data BP 1752.)

You'll take these measurements with the incredible 120 dB dynamic range of 2250 Light, allowing measurements from the low noise floor of the instrument to over 140 dB. Without a range switch to consider, you can now make measurements without fear of overload, and still capture the nuances of a silent night. 2250 Light is an ideal entry point to safe, easy and precise environmental noise measurements.

# **Product Noise Measurement**

Brüel & Kjær long ago set the standard for product noise measurements. Now, whether you have a simple A-weighted sound limit requirement, or need to evaluate a 1/3-octave reverberation chamber sound power test, 2250 Light is scalable to your requirements.



2250 Light can be used as a hand-held device for easy portability, or it can be operated using your Windows<sup>®</sup> PC as an on-line USB controlled device in your laboratory. The user-defined templates make switching between applications easy.

The wide 120 dB dynamic range of 2250 Light eliminates concern for overloads, and you can set a preset measurement time to add consistency to your measurements. Use the built-in headphone style (3.5 mm) output jack to send the signal out to other measurement instrumentation. The included utility program makes it easy to keep track of results in an organised, archive structure. And, of course, there's the Class 1 precision and reputation of Brüel & Kjær, giving you and your customers' complete confidence in your measurements, while adding value to your products.

For comprehensive data management and post-process reporting, consider using 2250 Light data together with Type 7815 Noise Explorer, which supports a wide range of user-definable graphic and tabular displays.

Graphs and tables can be imported into standard Windows® applications such as word processors and spreadsheets.

Fig. 1 Key features of 2250 Light



Fig. 2
The large numeric display - ideal for a spot noise enforcement check

#### **SLM Module**



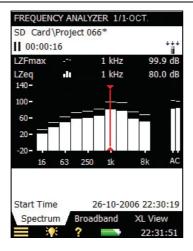
2250 Light comes with the Sound Level Meter Software for 2250 Light included. This makes 2250 Light into a versatile broadband sound level meter; it complies with the latest international standard (IEC 61672–1) as well as previous international and national standards.

All quantities are measured at the same time. For example, A and C frequency weighted levels are measured simultaneously, and at the same time F, S and I time weightings are applied in parallel. In addition, Peak levels are measured. Full statistics are also computed on-the-fly. Combine this with the dynamic range exceeding 120 dB and you will never miss a beat! You get all the parameters in one attempt, under-range is non-existent and you will have difficulties provoking an overload. A full compliment of occupational health sound parameters

are provided simultaneously, complying with national and international standards. The detailed list of available parameters can be found in the specifications section. You choose what you want on the display, but, at any time – during or after the measurement – all other parameters can be inspected and reported.

# 1/1- and 1/3-octave Frequency Analysis Software for 2250 Light - BZ-7131 and BZ-7132

Fig. 3
Example of 1/1-octave frequency analysis.
Note that two spectra are displayed simultaneously



1/1-octave Frequency Analysis Software for 2250 Light BZ-7131, and 1/3-octave Frequency Analysis Software for 2250 Light BZ-7132 are optional software modules. They allow you to make real-time measurements in 1/1- or 1/3-octave bands over a wide frequency range. This makes it a simple matter to obtain spectra in order to, for example, select hearing protection, qualify heat and ventilation systems, and assess tonality.

The following frequency ranges are available:

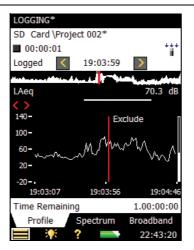
- 1/1-octave spectra (centre frequencies 16 Hz to 8 kHz)
- 1/3-octave spectra (centre frequencies 12.5 Hz to 16 kHz)

In each band you have a full and unrivalled dynamic range from the noise floor in that particular band to 140 dB. That is, a dynamic range generally in excess of 135 dB.

Spectra can be A-, B-, C- or Z-weighted. Five spectra are measured and stored and, in addition, two instantaneous spectra are available for display. Two spectra, for example, a minimum and maximum spectrum, can be superimposed on the display. All the broadband quantities measured by Sound Level Meter Software BZ-7130 are computed in parallel with the frequency analysis.

# Logging Software for 2250 Light - BZ-7133

Fig. 4
Display showing part of a logging profile and an exclude marker



With the optional Logging Software enabled, 2250 Light becomes a versatile instrument for obtaining time histories. The Logging Software allows you to select freely among the broadband parameters and log them at intervals from 1 s to 24 h. At the same time  $L_{\rm Aeq}$  and/or  $L_{\rm AF}$  can be logged at 100 ms intervals.

If Frequency Analysis Software BZ-7131 or BZ-7132 is enabled, the Logging Software additionally lets you log spectra at the same 1 s to 24 h intervals.

Logging Software BZ-7133 incorporates a number of features designed to make difficult field work as manageable as possible.

Among the most salient of these features are the following:

- Five user-definable markers can be set on-the-fly in the profile. Use these, for example, to clearly indicate specific noise sources or events
- Markers can be set directly on the profile display using the stylus and the touch screen.
   Simply 'tap and drag' on the part of the profile you want to mark and select a marker from the drop-down list
- Three of the markers can also be set using the three marker pushbuttons
- Markers can even be set 'after the fact'. The display covers the latest 100 samples (that is, 100 s of profile when logging at 1 s intervals, otherwise more) meaning that in most cases you can wait for the event (or disturbance) to stop before placing your marker. Alternatively, scroll back in the profile and set your marker
- Lets you browse easily between markers
- The profile display can be 'frozen' at any time (this happens automatically when you tap the screen), allowing you to work at ease

All markers are saved with the measurement, see Fig. 4. No further bookkeeping is required. When exporting data to, for example, 7821 Evaluator Light software for further analyses, markers are directly accessible on the profile.

Data is stored directly on SD or CF cards; for availability, please refer to the Ordering Information. Data can be directly read from the memory card by the included PC software BZ-5503 (see following section). This means that even large amounts of data can be quickly transferred to a PC.

In order to give an indication of the amount of memory required, some examples have been listed below. Values should be compared to the standard size of the SD cards used, which start at 128 Mbyte.

For convenience, values for 1 s logging periods during 24 h are given. Other values easily compute from these:

- Five broadband parameters, no statistics: 1 Mbyte
- All broadband parameters, one 100 ms parameter: 3 Mbyte
- All broadband parameters, no statistics: 4 Mbyte
- All broadband parameters, one 100 ms parameter, all 1/3-octave spectra: 30 Mbyte
- All broadband parameters with full statistics: 58 Mbyte
- All broadband parameters, one 100 ms parameter, all 1/3-octave spectra, full statistics: 86 Mbyte

# Type 2250 PC Software - Utility Software for Hand-held Analyzers BZ-5503

Utility Software for Hand-held Analyzers BZ-5503 is an archiving tool for 2250 Light data and setups, and functions as the link between 2250 Light and post-processing or reporting software on a PC. It enables you to do the following:

- Control 2250 Light from a PC
- · Manage and archive data on a PC
- Keep your 2250 Light software up to date

# Overview of 2250 Light Software Features

The table that follows presents a summary of the features of each of the software modules available with 2250 Light. See Specifications for details.

| Feature   | SLM<br>Software<br>(Included) | 1/1-octave<br>Frequency<br>Analysis<br>Software | 1/3-octave<br>Frequency<br>Analysis<br>Software | Logging<br>Software |
|---|-------------------------------|---|---|---------------------|
| 120+dB Dynamic Range – no need for range switching                                  | •                             | •   | •   | •                   |
| Sound levels up to 140 dB with supplied Microphone Type 4950                        | •                             | •   | •   | •                   |
| IEC/ANSI SLM standards Type/Class 1   | •                             | •   | •   | •                   |
| Frequency weightings A, B, C, Z (linear) and time weightings F, S, I                | •                             | •   | •   | •                   |
| Free-field/diffuse-field correction   | •                             | •   | •   | •                   |
| Pre-set time start/stop   | •                             | •   | •   | •                   |
| Back-erase – last 5 seconds of measurement data                                     | •                             | •   | •   |                     |
| Multi-language user interface   | •                             | •   | •   | •                   |
| Context-sensitive help  | •                             | •   | •   | •                   |
| Broadband statistics based on L <sub>Aeq</sub> , L <sub>AF</sub> or L <sub>AS</sub> | •                             | •   | •   | •                   |
| Broadband frequency range: 5 Hz - 18 kHz  | •                             | •   | •   | •                   |
| Remote control using Analogue or GSM modem  | •                             | •   | •   | •                   |
| Transfer of data files while measuring (USB or modem)                               | •                             | •   | •   | •                   |
| 1/1-octave spectra (centre frequencies 16 Hz to 8 kHz)                              |                               | •   |   | ●a                  |
| 1/3-octave spectra (centre frequencies 12.5 Hz to 16 kHz)                           |                               |   | •   | ●a                  |
| Logging of all or selected broadband parameters and spectra                         |                               |   |   | •                   |
| Logging period 1s to 24h  |                               |   |   | •                   |
| L <sub>Aeq</sub> and/or L <sub>AF</sub> logged every 100 ms                         |                               |   |   | •                   |
| Profile display   |                               |   |   | •                   |
| Profile overview of entire measurement  |                               |   |   | •                   |
| Markers on profile display  |                               |   |   | •                   |

a. If 1/1- or 1/3-octave Frequency Analysis Software is enabled

# Compliance with Standards

| C€, <b>©</b> | CE-mark indicates compliance with the EMC Directive and Low Voltage Directive. C-Tick mark indicates compliance with the EMC requirements of Australia and New Zealand.   |
|--------------|---|
| Safety       | EN/IEC 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use. UL 61010B-1: Standard for Safety - Electrical measuring and test equipment.   |
| EMC Emission | EN/IEC 61000–6–3: Generic emission standard for residential, commercial and light industrial environments. CISPR 22: Radio disturbance characteristics of information technology equipment. Class B Limits. FCC Rules, Part 15: Complies with the limits for a Class B digital device. IEC 61672–1, IEC 61260, IEC 60651 and IEC 60804: Instrumentation standards |
| EMC Immunity | EN/IEC 61000–6–2: Generic standard – Immunity for industrial environments. EN/IEC 61326: Electrical equipment for measurement, control and laboratory use – EMC requirements. IEC 61672–1, IEC 61260, IEC 60651 and IEC 60804: Instrumentation standards  |

# Specifications - 2250 Light Platform

Specifications apply to 2250 Light fitted with Microphone Type 4950 and Microphone Preamplifier ZC-0032

#### SUPPLIED MICROPHONE

Type 4950: Prepolarized Free-field ½" Microphone

Nominal Open-circuit Sensitivity: 50 mV/Pa (corresponding to

-26 dB re 1 V/Pa) ± 2 dB Capacitance: 12.5 pF (at 250 Hz)

**MICROPHONE PREAMPLIFIER ZC-0032** Nominal Preamplifier Attenuation: 0.3 dB

Connector: 10-pin LEMO

Extension Cables: Up to 100 m in length between the microphone preamplifier and 2250 Light, without degradation of the specifications

#### **SELF-GENERATED NOISE LEVEL**

Typical values at 23°C for nominal microphone open-circuit sensitivity:

| Weighting       | Microphone | Electrical | Total   |
|-----------------|------------|------------|---------|
| "A"             | 14.0 dB    | 12.9 dB    | 16.4 dB |
| "B"             | 12.9 dB    | 11.8 dB    | 15.4 dB |
| "C"             | 13.0 dB    | 13.4 dB    | 16.2 dB |
| "Z" 5 Hz–20 kHz | 14.4 dB    | 19.2 dB    | 20.4 dB |

#### **KEYBOARD**

Pushbuttons: 11 keys with backlight, optimised for measurement control and screen navigation

Function: Press 1 s to turn on; press 1 s to enter standby; press for more than 5s to switch off

STATUS INDICATORS LEDs: Red, amber and green

#### DISPLAY

Type: Transflective back-lit touch screen 240 x 320 dot matrix

Black and White Scheme

Backlight: Adjustable level and on-time

### **USER INTERFACE**

Measurement Control: Using pushbuttons on keyboard Setup and Display of Results: Using stylus on touch screen or pushbuttons on keyboard

Lock: Keyboard and touch screen can be locked and unlocked

## **USB INTERFACE**

USB 1.1 OTG Mini B socket

#### MODEM INTERFACE

Hayes compatible GSM or standard analogue modems connected through the Compact Flash slot

# **HEADPHONE SOCKET**

Connector: 3.5 mm Minijack stereo socket Max. Peak Output Level: ±1.4 V Output Impedance:  $32\Omega$  in each channel

# EXTERNAL DC POWER SUPPLY REQUIREMENTS

Used to charge the battery pack in the instrument

Voltage: 8-24 V DC, ripple voltage < 20 mV

Current Requirement: min. 1.5 A

Power Consumption: < 2.5 W, without battery charging, < 10 W

when charging

Cable Connector: LEMO Type FFA.00, positive at centre pin

#### **BATTERY PACK**

Type: Li-lon rechargeable Typical Operating Time: >8 hours

#### STORAGE SYSTEM

Internal Flash-RAM (non-volatile): 20 Mbyte for user setups and

measurement data External Secure Digital Memory Card (SD-card): For store/recall

of measurement data

External Compact Flash Memory Card (CF-card): For store/recall of measurement data

Back-up battery powered clock. Drift < 0.45 s per 24 hour period

#### WARM-UP TIME

From Power Off: <2 minutes From Standby: < 10 seconds

#### **TEMPERATURE**

IEC 60068-2-1 & IEC 60068-2-2: Environmental Testing. Cold and

Dry Heat

Operating Temperature: -10 to +50°C (14 to 122°F),  $<0.1\,dB$ 

Storage Temperature: -25 to +70°C (-13 to +158°F)

IEC 60068-2-78: Damp Heat: 90% RH (non-condensing at 40°C

Effect of Humidity: < 0.1 dB for 0% < RH < 90% (at 40°C (104°F) and 1kHz)

# **MECHANICAL**

Environmental Protection: IP 44

Non-operating:

IEC 60068-2-6: Vibration: 0.3 mm, 20 m/s<sup>2</sup>, 10 – 500 Hz

IEC 60068-2-27: Shock: 1000 m/s<sup>2</sup>

IEC 60068-2-29: Bump: 4000 bumps at 400 m/s<sup>2</sup>

## WEIGHT AND DIMENSIONS

650 g (23 oz.) including rechargeable battery

 $300 \times 93 \times 50$  mm (11.8  $\times 3.7 \times 1.9$ ") including preamplifier and microphone

# **LANGUAGE**

User Interface in Catalan, Croatian, Czech, Danish, English, Flemish, French, German, Hungarian, Japanese, Italian, Polish, Portuguese, Romanian, Serbian, Slovenian, Spanish, Swedish and Turkish

Concise context-sensitive help in Catalan, English, French, German, Italian, Japanese, Polish, Portuguese, Romanian, Serbian, Slovenian and Spanish

# Software Specifications - Sound Level Meter Software for 2250 Light BZ-7130

Conforms with the following National and International Standards:

- IEC 61672-1 (2002-05) Class 1
- IEC 60651 (1979) plus Amendment 1 (1993-02) and Amendment 2 (2000-10), Type 1
- IEC 60804 (2000-10), Type 1
- IEC 61252, Electroacoustics Specifications for Personal Sound **Exposure Meters**
- DIN 45657 (1997-07)
- ANSIS1.4-1983 plus ANSI S1.4A-1985 Amendment, Type 1
- ANSIS1.43-1997, Type 1

Note: The International IEC Standards are adopted as European standards by CENELEC. When this happens, the letters IEC are replaced with EN and the number is retained. 2250 Light also conforms to these EN Standards

#### **CORRECTION FILTERS**

# For Microphone Type 4950:

Correct the frequency response to compensate for sound field and

Sound Field: Free-field or Diffuse-field Accessories: None, Windscreen UA-0237

#### **DETECTORS**

Parallel Detectors on every measurement:

A- or B-weighted (switchable) broadband detector channel with three exponential time weightings (Fast, Slow, Impulse), one linearly averaging detector and one peak detector

C- or Z-weighted (switchable) as for A- or B-weighted Overload Detector: Monitors the overload outputs of all the frequency weighted channels

### **MEASUREMENTS**

X = frequency weightings A or B

Y = frequency weightings C or Z

V = frequency weightings A, B, C or Z

U = time weightings F or S Q = exchange rate 4, 5 or 6 dB N = number between 0.1 and 99.9

# For Storage

Full statistics

Dose%

T<sub>Vpeak</sub>

# For Display and Storage

| Start Time         | Stop Time               | Overload %                |
|--------------------|-------------------------|---------------------------|
| Elapsed Time       | $L_{Xeq}$               | $L_{Yeq}$                 |
| L <sub>XE</sub>    | $L_{YE}$                | $L_{Ceq}$ - $L_{Aeq}$     |
| L <sub>XSmax</sub> | L <sub>XFmax</sub>      | L <sub>XImax</sub>        |
| L <sub>YSmax</sub> | L <sub>YFmax</sub>      | L <sub>YImax</sub>        |
| L <sub>XSmin</sub> | $L_{XFmin}$             | $L_{XImin}$               |
| L <sub>YSmin</sub> | L <sub>YFmin</sub>      | $L_{YImin}$               |
| L <sub>Xleq</sub>  | L <sub>Yleq</sub>       | $L_{Aleq}\text{-}L_{Aeq}$ |
| L <sub>AFTeq</sub> | $L_{AFTeq}$ - $L_{Aeq}$ | Time Remaining            |
| $L_{ep,d}$         | $L_{ep,d,v}$            | E                         |
|                    |                         |                           |

 $\#VPeaks (>137dB) \ \#VPeaks (>135dB) \ L_{Vpeak}$ **TWA** LavUQ

Proj. Dose%

#VPeaks (>NNNdB)

TWA<sub>v</sub> DoseUQ% Proj. DoseUQ%

#### Only for Display as Numbers or Quasi-analogue Bars

|                                    | -1                                  |  |
|------------------------------------|-------------------------------------|--|
| $L_{XS}$                           | $L_{XF}$                            | $L_{XI}$                                 |
| $L_{YS}$                           | $L_{YF}$                            | $L_{YI}$                                 |
| $L_{XS(SPL)}$                      | $L_{XF(SPL)}$                       | $L_{XI(SPL)}$                            |
| L <sub>YS(SPL)</sub>               | $L_{YF(SPL)}$                       | L <sub>YI(SPL)</sub>                     |
| L <sub>Vpeak,1s</sub>              | L <sub>AN1</sub> or L <sub>AU</sub> | $L_{AN2}$ or $L_{AUN2}$                  |
| L <sub>AN3</sub> or L <sub>A</sub> | $_{UN3}$ $L_{AN4}$ or $L_{AU1}$     | N4 L <sub>AN5</sub> or L <sub>AUN5</sub> |

LAN6 or LAUN6 L<sub>AN7</sub> or L<sub>AUN7</sub>

#### **MEASURING RANGES**

Dynamic Range: From typical noise floor to max. level for a 1 kHz

pure tone signal, A-weighted: 16.4 to 140 dB

Primary Indicator Range: In accordance with IEC 60651,

A-weighted: 23.9 dB to 123 dB

Linearity Range: In accordance with IEC 60804,

A-weighted: 21.8 dB to 140 dB

Linear Operating Range: In accordance with IEC 61672,

A-weighted: 1 kHz: 25.0 dB to 140 dB

Peak C Range: In accordance with IEC 61672: 30.1 dB to 143 dB

#### SAMPLING FOR BROADBAND STATISTICS

The Statistics can be based on either LAF, LAS or LAeq:

- Statistics L<sub>AFN1-7</sub> or L<sub>ASN1-7</sub> are based on sampling L<sub>AF</sub> or L<sub>AS</sub>, resp., every 10 ms into 0.2 dB wide classes over 130 dB
- Statistics  $L_{AN1-7}$  are based on sampling  $L_{Aeq}$  every second into 0.2 dB wide classes over 130 dB

Full distribution saved with measurement

#### MEASUREMENT DISPLAYS

SLM: Measurement data displayed as numbers of various sizes and one quasi-analogue bar

Measured data are displayed as dB values, housekeeping data as numbers in relevant format.

Instantaneous measurement L<sub>XF</sub> is displayed as a quasi-analogue bar

# **MEASUREMENT CONTROL**

Manual: Manually controlled single measurement

Automatic: Pre-set measurement time from 1s to 24 hours in 1s

Manual Controls: Reset, Start, Pause, Back-erase, Continue and Store the measurement manually

#### **BACK-ERASE**

The last 5 s of data can be erased without resetting the measurement

#### **MEASUREMENT STATUS**

On Screen: Information such as overload and running/paused are displayed on screen as icons

Traffic Lights: Red, yellow and green LEDs show measurement status and instantaneous overload as follows:

- Yellow LED flash every 5 s = stopped, ready to measure
- Green LED flashing slowly = awaiting calibration signal
- Green LED on constantly = measuring
- Yellow LED flashing slowly = paused, measurement not stored
- Red LED flashing quickly = intermittent overload, calibration failed

# CALIBRATION

Initial calibration is stored for comparison with later calibrations Acoustic: Using Sound Calibrator Type 4231 or custom calibrator. The calibration process automatically detects the calibration level when Sound Calibrator Type 4231 is used

Electrical: Uses internally generated electrical signal combined with a typed-in value of microphone sensitivity

Calibration History: Up to 20 of the last calibrations made are listed and can be viewed on the instrument

#### SIGNAL MONITORING

The input signal can be monitored using an earphone/headphones connected to the headphone socket

Headphone Signal: Input signal can be monitored using this socket with headphones/earphones

Gain Adjustment: -60 dB to 60 dB

# DATA MANAGEMENT

Project Template: Defines the display and measurement setups Project: Measurement data stored with the Project Template Job: Projects are organised in Jobs

Explorer facilities for easy management of data (copy, cut, paste, delete, rename, view data, open project, create job, set default project name)

#### **PREFERENCES**

Date, Time and Number formats can be specified

# Software Specifications – 1/1-octave Frequency Analysis Software for 2250 Light BZ-7131 and 1/3-octave Frequency Analysis Software for 2250 Light BZ-7132

The specifications for BZ-7131 and BZ-7132 include the specifications for Sound Level Meter Software for Light BZ-7130. BZ-7131 and BZ-7132 add:

#### **STANDARDS**

Conforms with the following National and International Standards:

- IEC 61260 (1995–07) plus Amendment 1 (2001–09), 1/1-octave Bands. Class 0
- ANSIS1.11–1986, 1/1-octave Bands and 1/3-octave Bands, Order 3, Type 0–C
- ANSIS1.11-2004, 1/1-octave Bands, Class 0

#### **CENTRE FREQUENCIES**

1/1-octave Band Centre Frequencies (BZ-7131 only): 16 Hz to 8 kHz

1/3-octave Band Centre Frequencies (BZ-7132 only): 12.5 Hz to 16 kHz

#### **MEASUREMENTS**

X = frequency weightings A, B, C or Z

### Spectra for Display and Storage

 $L_{Xeq}$   $L_{XSmax}$   $L_{XFmax}$ 

L<sub>XSmin</sub> L<sub>XFmin</sub>

Spectra for Display Only
L<sub>XS</sub> L<sub>XF</sub>

#### Single Values

SIL PSIL SIL3 L<sub>Aeq (20-200 Hz)</sub> (BZ-7132 only)

#### **MEASURING RANGES**

Dynamic Range: From typical noise floor to max. level for a pure

tone signal at 1 kHz 1/3-octave: 1.5 to 140 dB

Linear Operating Range: In accordance with IEC 61260: ≤20.5 dB

to 140 dB

#### **MEASUREMENT DISPLAYS**

**Spectrum:** One or two spectra superimposed + A/B and C/Z

broadband bars

Table: One or two spectra in tabular form

**Y-axis:** Range: 5, 10, 20, 40, 60, 80, 100, 120, 140 or 160 dB. Auto

zoom or auto scale available **Cursor:** Readout of selected band

# Software Specifications - Logging Software for 2250 Light BZ-7133

The specifications for BZ-7133 include the specifications for Sound Level Meter Software for 2250 Light BZ-7130. BZ-7133 adds:

#### **MEASUREMENTS**

**Logging:** Measurement data logged at pre-set periods into files on external SD- or CF-cards

**Logging Period:** From 1s to 24 hours with 1s resolution **Fast Logging:**  $L_{AF}$  and  $L_{Aeq}$  can be logged every 100 ms, irrespective of logging period

Broadband Data Stored at each Logging Interval: All, or up to 10 selectable broadband data

**Broadband Statistics Stored at each Logging Interval:** Full distribution, or none

Spectrum Data Stored at each Logging Interval: All, or up to 3 selectable spectra (license for BZ-7131 or BZ-7132 required)
Logging Time: From 1 second to 31 days with 1s resolution
Measurement Total: For the logging time, in parallel with logging:
All broadband data, statistics and spectra (license for BZ-7131 or BZ-7132 required)

Automatic reboot and resume of operation in case of power failure

#### **MARKERS**

Five user-definable markers for on-line marking of noise sources or events anywhere in the profile.

Markers are set using the stylus on the touch screen, or the three marker pushbuttons

#### **MEASUREMENT DISPLAYS**

**Profile:** Graphical display of selectable measurement data versus time. Fast display of next or previous marker, Profile Overview of entire measurement

**Y-axis:** Range: 5, 10, 20, 40, 60, 80, 100, 120, 140 or 160 dB. Auto zoom or auto scale available

X-axis: Scroll facilities

Cursor: Readout of measurement data at selected time

# STORAGE

Measurement data is stored on an external SD or CF memory card.

For availability, please refer to the Ordering Information

# Software Specifications – Utility Software for Hand-held Analyzers BZ-5503

BZ-5503 is included with 2250 Light for easy synchronisation of data between PC and 2250 Light. BZ-5503 is supplied on CD-ROM BZ-5298

# **ON-LINE DISPLAY OF 2250 LIGHT DATA**

Measurements on 2250 Light can be controlled from the PC and displayed on-line with the PC, using the same user interface on the PC as on 2250 Light

# **DATA MANAGEMENT**

**Explorer:** Facilities for easy management of Instruments, Jobs and Projects (copy, cut, paste, delete, rename, create)

Data Viewer: View measurement data (content of projects)
Synchronisation: Projects can be synchronised between PC and
2250 Light

# **EXPORT FACILITIES**

**Excel:** Projects (or user specified parts) can be exported to  $\mathsf{Microsoft}^{\$}$  Excel

**Type 7810/12/15/16/20/25:** Projects can be exported to Predictor Type 7810, Lima Type 7812, Noise Explorer Type 7815, Acoustic Determinator Type 7816, Evaluator Type 7820 or Protector Type 7825

# 2250 LIGHT SOFTWARE UPGRADES AND LICENSES

The utility software controls 2250 Light software upgrades and licensing of the 2250 Light applications

# INTERFACE TO 2250 LIGHT

USB ver. 1.1 or Hayes compatible GSM or standard analogue modem

#### PC REQUIREMENT

Operating System: Windows<sup>®</sup> 2000/Windows<sup>®</sup> XP, Microsoft<sup>®</sup>.NET Recommended PC: Pentium<sup>®</sup> III (or equivalent) processor, 128 Mbyte RAM, SVGA graphics display/adaptor, sound card, CD ROM drive, mouse, USB, Windows<sup>®</sup> XP

# **Ordering Information**

| ZG-0429 Mains Power Supply QB-0061 Battery Pack Stylus  BASIC KIT FOR 2250 LIGHT (UA-1703) FB-0691 Hinged Cover for Hand-held Analyzer UA-0237 90 mm dia. Windscreen DH-0696 Wrist Strap KE-0441 Protective Cover for 2250 Light UA-1654 5 Extra Styli UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount UA-1674 Protective Cover for 2250 Light UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1654 7 Fore-cive Cover for 2250 Light UA-1654 9 Orm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount UA-1654 5 Extra Styli UA-1251 Lightweight Tripod  Widon Measuring Gear (see Product Data BP 1744)  AO-0441-D-030 Microphone Extension Cable, 10-pin LEMO, 3 (10 ft)  AO-0441-D-100 Microphone Extension Cable, 10-pin LEMO, 3 (10 ft)  Wicrophone Extension Cable, 10-pin LEMO, 10 (10 ft)  Wicrophone Holder  UA-1317 Microphone Holder  UA-1651 Tripod Extension for Hand-held Analyzer  UA-1651 UA-1651 Tripod SD Memory Card for Hand-held Analyzers  UA-1654 5 Extra Styli  INTERFACING  Noise Explorer – data viewing software  Evaluator Light – data viewing and calculation software   | 2250 LIGHT PA                           |   | KE-0441             | Protective Cover for 2250 Light                  |
|--|---|---|---------------------|--|
| Type 2250-L-200   Hand-held Analyzer with Sound Level Meter Software BZ-7130 and 1/10-toctave Frequency Analysis Software BZ-7130 and 1/10-toctave Frequency Analysis Software BZ-7131 and 1/3 octave Frequency Analysis Software BZ-7130 and Lovel Meter Software BZ-7130 and Lovel Meter Software BZ-7130 and Loughing Software BZ-7130 And Loughing Software BZ-7130 Software BZ-7131 And Longaing Software BZ-7130 Software BZ-7130 And Loughing Software BZ-7130 A    | Type 2250-L-100                         |   |                     | •  |
| Software BZ-7130 and 1/1-octave Frequency Analysis Software BZ-7130   Hand-held Analyzer with Sound Level Meter Software BZ-7130   Hond-held Analyzer with Sound Level Meter Software BZ-7130   Hond-held Analyzer with Sound Level Meter Software BZ-7130   Hand-held Analyzer with Sound Level Meter Software BZ-7130   Hond-held Meter Software BZ    | Type 2250-L-200                         |   |                     | ,  |
| Manaysis Software BZ-7131   Manayser with Sound Level Meter   Software BZ-7131 and 17-boctave Frequency Analysis Software BZ-7130 and Logging Software BZ-7130 and Logging Software BZ-7130 and Logging Software BZ-7130 and Logging Software BZ-7131   Manayser Software BZ-7131   Manayser Software BZ-7131   Manayser Frequency Analysis Software BZ-7131   Manayser Frequency Analysis Software BZ-7132 and Logging Software BZ-7133   Manayser Frequency Analysis Software BZ-7133   Manayser Frequency Analysis Software BZ-7133   Manayser Frequency Analysis Software Software BZ-7133   Manayser Frequency Analysis Software for Z250   Manayser Frequency Analysis Software Frequency Analysis Software Frequency Analysis Software for Z250       | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |   | • •                 |  |
| Type 2250-L-30  Hand-held Analyzer with Sound Level Meter Software BZ-7130, 1/1-octave Frequency Analysis Software BZ-7130, 1/1-octave Frequency Analysis Software BZ-7130 and Logging Softw   |   |   |                     |  |
| Software BZ-7130, 1/1-octave Frequency Analysis Software BZ-7131 and 1/3-octave Frequency Analysis Software BZ-7131 and 1/3-octave Frequency Analysis Software BZ-7130 and Logging Software BZ-7133 bothware BZ-7130 and Logging Software BZ-7133 bothware BZ-7130 and Logging Software BZ-7133 bothware BZ-7130, 1/1-octave Frequency Analysis Software BZ-7131 bothware Software SZ-7132 and Logging Software BZ-7132 bothware SZ-7132 bothware   | Type 2250-L-300                         | Hand-held Analyzer with Sound Level Meter | Type 7821           |  |
| Softwafe BZ-7131 and 1/3-octave Frequency Analysis Software BZ-7132 Software BZ-7130 and Logging Software BZ-7133 DH-0998 Software BZ-7132 and Logging Software BZ-7133 SOFTWARE MODULES AVAILABLE SEPARATELY UA-1654 Extra Styli Type 4231 Sound Calibrator DEAD Software BZ-7132 DH-0998 Software for 2250 Light September Software S |   |   | OCCUPATIONA         | I HEALTH KIT FOR 2250 LIGHT (IIA-1706)           |
| Analysis Software BZ-7132   Analysis Software BZ-7133   Analysis Software BZ-7133   Analysis Software BZ-7130 and Logging Software BZ-7130   Charlest Software BZ-7130   Analysis Software BZ-7130   Analysis Software BZ-7130   Analysis Software BZ-7131   Analysis Frequency Analysis Software BZ-7131   Analysis Frequency Analysis Software BZ-7131   Analysis Software   |   |   |                     |  |
| Type 2250-L-300   Fland-field Analyzer with Sound Level Meter Software BZ-7130 and Logging Software BZ-7130   Fland-held Analyzer with Sound Level Meter Software BZ-7130   Fland-held Analyzer with Sound Calibrator United Software BZ-7131   Fland-held Analyzer Wins Strap Software BZ-7132   Fland-held Analyzer Software BZ-7132   Fland-held Analyzer Software Frequency Analysis Software for 2250   Light Software Softwar   |   | •   |                     |  |
| Type 2250-L-500 Hand-held Analyzer with Sound Level Meter Software BZ-7130, 1/1-octave Frequency Analysis Software BZ-7131, 273-octave Frequency Analysis Software BZ-7131, 273-octave Frequency Analysis Software BZ-7132 and Logging Software BZ-7131 U1-octave Frequency Analysis Software BZ-7132 and Logging Software BZ-7133 U11-octave Frequency Analysis Software BZ-7131 U11-octave Frequency Analysis Software for 2250 Light U1-1009 SD Memory Card Type 4231 Sound Calibrator U250 Light D27-7132 Lightweight Tripod SD Memory Card Type 7825 Protector ACCESSORIES AND COMPONENTS AVAILABLE SEPARATELY BZ-7133 Logging Software for 2250 Light COMPONENTS INCLUDED WITH TYPE 2250-L Type 4950 Prepolarized Free-field 1/2" Microphone Preamptifier U250 Light USB Slandard A to USB Mini B Interface Cable, 1.8 m (6ft) 2250-CAF Accredited Calibration of Type 2250 Accredited Calibration of Type 2250 Conformance Test of Type 2250, with certifical SP 1744 Protective Cover for 2250 Light UA-0254 D3 Memory Card Type 4231 Sound Calibrator (fits in KE-0440) Accredited Calibration of Type 2250 Conformance Test of Type 2250, with certifical SP 1744 Protective Cover for 2250 Light UA-0254 D3 Minis Power Supply U3-0250 Light UA-0250 UA-0250 Light U3-0250 Light U3-025 | Type 2250-L-400                         |   |                     |  |
| Software BZ-7130, 1/1-octave Frequency Analysis Software BZ-7131 and Logging Software BZ-7131 b.7-octave Frequency Analysis Software BZ-7132 and Logging Software BZ-7131 b.7-octave Frequency Analysis Software BZ-7132 b.7-octave Frequency Analysis Software BZ-7131 b.7-octave Frequency Analysis Software for 2250 l.ght 1/1-octave Frequency Analysis Software for 2250 l.ght 27-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-  | T 0050 L 500                            |   | DH-0696             |  |
| Software BZ-7131   | Type 2250-L-500                         |   | KE-0441             | Protective Cover for 2250 Light                  |
| Software BZ-7132 and Logging Software BZ-7133 Type 4231 Sound Calibrator  BZ-7131 1/1-octave Frequency Analysis Software for 2250 Light 1/3-octave Frequency Analysis Software for 2250 Light 2Z-7133 Logging Software for 2250 Light 2Z-7134 Logging Software for 2250 Light 2Z-7134 Logging Software for Hand-held Analyzer 2Z-7134 Logging Software for Hand-held Analyzer 2Z-7134 Logging Software for Hand-held Analyzer 2Z-7134 Logging Software for 2Z-7134 Logging Software |   |   |                     | •  |
| SOFTWARE MODULES AVAILABLE SEPARATELY BZ-7131 1/1-octave Frequency Analysis Software for 2250 Light 2/1-2/1-2/1-2/1-2/1-2/1-2/1-2/1-2/1-2/1-   |   |   |                     |  |
| BZ-7131   1/1-octave Frequency Analysis Software for 2250   Light   BZ-7132   1/3-octave Frequency Analysis Software for 2250   Type 7825   Protector   BZ-7132   Light   ACCESSORIES   AND COMPONENTS AVAILABLE SEPARATE   BZ-7133   Logging Software for 2250 Light   BZ-7133   Logging Software for 2250 Light   ANALYZER   ZG-0444   Charger for QB-0061 Battery Pack   COMPONENTS INCLUDED WITH TYPE 2250-L   Type 4950   Prepolarized Free-field 1/2" Microphone   ACCESSORIES   AND COMPONENTS AVAILABLE SEPARATE   COMPONENTS INCLUDED WITH TYPE 2250-L   Type 4950   Prepolarized Free-field 1/2" Microphone   CALIBRATION   Type 4231   Sound Calibrator (fits in KE-0440)   Accredited Calibration of Type 2250   Conformance Test of Type 2250   Conformance Tes |   |   | • •                 |  |
| Light BZ-7132 1/3-octave Frequency Analysis Software for 2250 Light COMPONENTS INCLIDED WITH TYPE 2250-L Type 4950 Prepolarized Free-field 1/2" Microphone COMPONENTS INCLIDED WITH TYPE 2250-L Type 4950 Prepolarized Free-field 1/2" Microphone CC-0032 Microphone Preamplifier AO-1476 USB Standard A to USB Mini B Interface Cable, 1.8 m (6tt) BZ-5298 Environmental Software, including BZ-5503 Utility Software for Hand-held Analyzers CG-0429 Mains Power Supply CB-0061 Battery Pack Stylus  BASIC KIT FOR 250 LIGHT (UA-1703) FB-0691 Hinged Cover for Hand-held Analyzer UA-1654 5 Extra Styli UA-0257 Adaptor for Standard Tripod Mount UA-1673 Adaptor for Standard Tripod Mount UA-1654 5 Extra Styli UA-1654 Dye 7825 Protector ACHIBRATION Type 4231 Sund Calibration of Type 2250 CALIBRATION Type 4930 Sound Calibrator (fits in KE-0440) ACCESORIES AND COMPONENTS AVAILABLE SEPARATE CG-0424 Charger for QB-0061 Battery Pack Charger f |   |   |                     | • • •  |
| BZ-7132 Light BZ-7133 Logging Software for 2250 Light COMPONENTS INCLUDED WITH TYPE 2250-L Type 4950 Prepolarized Free-field 1/2" Microphone CC-0032 Microphone Preamplifier AO-1476 USB Standard A to USB Mini B Interface Cable, 1.8 m (6 ft) BZ-5298 Environmental Software, including BZ-5503 Utility Software for Hand-held Analyzers CG-0429 Mins Power Supply CB-00429 Mins Power Supply CB-00419 Battery Pack Stylus  BASIC KIT FOR 2250 LIGHT (UA-1703) FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount UA-1251 Lightweight Tipod UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-0254 90 mm dia. Winds | BZ-7131                                 |   |                     |  |
| Light Logging Software for 2250 Light COMPONENTS INCLUDED WITH TYPE 2250-L Type 4950 Prepolarized Free-field 1/2" Microphone ZC-0032 Microphone Preamplifier A0-1476 USB Standard A to USB Mini B Interface Cable, 1.8 m (6 ft) BZ-5298 Environmental Software, including BZ-5503 Utility Software for Hand-held Analyzers AD-0429 Mains Power Supply ABSIC KIT FOR 2250 LIGHT (UA-1703) Hinged Cover for Hand-held Analyzer A0-1678 A | B7-7132                                 | S .                                       |                     |  |
| COMPONENTS INCLUDED WITH TYPE 2250-L Type 4950 Prepolarized Free-field 1/2" Microphone ZC-0032 Microphone Preamplifier AO-1476 USB Standard A to USB Mini B Interface Cable, 1.8 m (6ft) BZ-5298 Environmental Software, including BZ-5503 Utility Software for Hand-held Analyzers ZG-0429 Mains Power Supply MEASURING AD-061 BASIC KIT FOR 2250 LIGHT (UA-1704) BASIC KIT FOR 2550 LIGHT (UA-1704) FB-0691 Hinged Cover for Hand-held Analyzer UA-0554 BI-0691 Hinged Cover for Hand-held Analyzer UA-0254 UA-1673 AD4020 Adaptor for Standard Tripod UA-1251 UA-1654 S Extra Styli UA-1654 S Extra Styli UA-1653 Adaptor for Standard Tripod Munts Adaptor for Standard Tirpod Mount UA-1673 Adaptor for Standard Tirpod Mount UA-1674 Adaptor for Standard Tirpod Mount UA-1675 Adaptor for Standard Tirpod Mount UA-1675 Adaptor for Standard Tirpod Mount UA-1677 Adaptor for Standard Tirpod Mount UA-1678 Adaptor for Standard Tirpod Mount UA-1679 Adaptor for Standard Tirpod Mount UA-1679 Adaptor for Standard Tirpod Mount UA-1679 Adaptor for Standard Tirpod U |   | Light                                     |                     | AND COMPONENTS AVAILABLE SEPARATELY              |
| COMPONENTS INCLUDED WITH TYPE 2250-L Type 4950 Prepolarized Free-field 1/2" Microphone ZC-0032 Microphone Preamplifier AO-1476 USB Standard A to USB Mini B Interface Cable, 1.8 m (6t) BZ-5298 Environmental Software, including BZ-5503 Utility Software for Hand-held Analyzers ZG-0429 Mains Power Supply QB-0061 Battery Pack Stylus BASIC KIT FOR 2250 LIGHT (UA-1703) FB-0691 Hinged Cover for Hand-held Analyzer UA-1254 Q9 mm dia. Windscreen UA-1254 Q9 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1673 Adaptor for Standard Tripod Mount UA-1654 S Extra Styli UA-1654 O SD LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-1251 Lightweight Tripod UA-1254 Q9 mm dia. Windscreen Windscreens (6 pack of UA-0237) UA-1251 Lightweight Tripod UA-1254 Q9 mm dia. Windscreen (5 pack of UA-0237) UA-1254 Q9 mm dia. Windscreen (5 pack of UA-0237) UA-1254 Q9 mm dia. Windscreen (5 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1254 Q9 mm dia. Windscreens (6 pack of UA-0237) UA-1254 Q9 mm dia. Windscreen (5 pack of UA-0237) UA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1254 Q9 mm dia. Windscreens (6 pack of UA-0237) UA-1254 Q9 mm dia. Windscreens (6 pack of UA-0237) UA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) UA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windscreen (6 pack of UA-0237) VA-1254 Q9 mm dia. Windsc |   |   |                     | Charger for QB-0061 Battery Pack                 |
| Type 4231 Sound Calibrator (fits in KE-0440) AO-1476 USB Standard A to USB Mini B Interface Cable, 1.8 m (6 ft) BZ-5298 Environmental Software, including BZ-5503 Utility Software for Hand-held Analyzers  ZG-0429 Mains Power Supply MEASURING  RB-0601 Battery Pack Stylus  BASIC KIT FOR 2250 LIGHT (UA-1703)  FB-0691 Hinged Cover for Hand-held Analyzer  UA-1654 5 Extra Styli  DF-0696 Wrist Strap  UA-0696 Wrist Strap  Hinged Cover for Hand-held Analyzer  UA-0696 Wrist Strap  VA-0696 Wrist Strap  VA-0697 Standard Tripod Mount  UA-1654 5 Extra Styli  UA-1655 Earphones  UA-1654 5 Extra Styli  UA-1654 5 Extra Styli  UA-1655 Earphones  UA-1654 5 Extra Styli  UA-1654 5 Extra Styli  UA-1655 Explorer – data viewing software  UA-1656 Type 7825 Protector – software for calculation of Type 2250  CERO-CTF Traceable Calibration of Type 2250  Conformance Test of Type 2250 Conformance Test of Type 2250  Conformance Test of Typ |   |   |                     | 5.1a.ge. 10. Q2 5551 24.16.1, 1 45.1.            |
| AO-1476 USB Standard A to USB Mini B Interface Cable, 1.8 m (6 ft) 2250-CAF Accredited Calibration of Type 2250 Environmental Software, including BZ-5503 Utility Software for Hand-held Analyzers 2250-CTF Conformance Test of Type 2250, with certifical Traceable Calibration of Type 2250 Conformance Test of Type 2250, with certifical Battery Pack Stylus BASIC KIT FOR 2250 LIGHT (UA-1703) Type 3592 Outdoor Measuring Gear (see Product Data BP 1744) AO-0441-D-030 Microphone Extension Cable, 10-pin LEMO, 3 (10 ft) Microphone Extension Cable, 10-pin LEMO, 10 (33 ft) Microphone Extension Cable, 10-pin LEMO, 10 (35 ft) Microphone Extension Cable, 10-pin LEMO, 10 (10 ft) Microphone Extension Cable, 10-pin LEMO, 10 ft) Microphone Extension Cable, 1 | • •                                     | •   |                     | Sound Calibrator (fits in KE-0440)               |
| 1.8 m (6 ft)  BZ-5298 Environmental Software, including BZ-5503 Utility Software for Hand-held Analyzers  ZG-0429 Mains Power Supply QB-0061 Battery Pack Stylus  BASIC KIT FOR 2250 LIGHT (UA-1703) FB-0691 Hinged Cover for Hand-held Analyzer UA-1654 5 Extra Styli  PLUS KIT FOR 2250 LIGHT (UA-1704) FB-0691 Hinged Cover for Hand-held Analyzer UA-0237 90 mm dia. Windscreen (6 pack of UA-0237) UA-1653 Adaptor for Standard Tripod UA-1654 5 Extra Styli  DH-0696 Wrist Strap  LIGHT (UA-1704) FB-0691 Hinged Cover for Hand-held Analyzer UA-1654 5 Extra Styli  DH-0696 Wrist Strap  LIGHT (UA-1704) FB-0691 Hinged Cover for Hand-held Analyzer UA-1250 LIGHT (UA-1704) UA-1654 5 Extra Styli  DH-0696 Wrist Strap  LIGHT (UA-1704) LIGHT (UA-1704) LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-1651 CF Memory Card for Hand-held Analyzer UA-1654 DF Memory Card for Hand-held Analyzer UA-1654 S Extra Styli  Type 7815 Noise Explorer – data viewing software Type 7825 Protector – software for calculation of Type 2250 performed.  SERVICE PRODUCTS  SERVICE PRODUCTS  2250-CCF Traceable Calibration of Type 2250 Conformance Test of Type 2250, with certifical 2250-TCF Conformance Test of Type 2250, with certifical 2250-TCF Conformance Test of Type 2250, with certifical 2250-TCP Traceable Calibration of Type 2250, with certifical 2250-TCP Traceable Calibration of Type 2250 Unith certifical 2250-TCP Traceable Calibration of Type 2250 Unith certifical 2250-TCP Traceable Calibration of Type 2250 Unith certifical 2250-TCP Traceable Calibration of Type 2250, performed 2250-TCP Traceable Calibration of Type 2250, performed 2250-TCP Traceable Calibration of Type 2250, performed 2250-TCP Traceable Calibration of Type 2250 Unith Calibratic Conformance Test of Type  |   | •   |                     | · · · · · · · · · · · · · · · · · · ·            |
| BZ-5298 Environmental Software, including BZ-503 Utility Software for Hand-held Analyzers  ZG-0429 Mains Power Supply QB-0061 Battery Pack Stylus  BASIC KIT FOR 2250 LIGHT (UA-1703) FB-0691 Hinged Cover for Hand-held Analyzer UA-1634 Adaptor for Standard Tripod Mount UA-1251 Lightweight Tripod UA-0254 90 mm dia. Windscreen UA-1673 Adaptor for Standard Tripod Mount UA-1251 Lightweight Tripod UA-0254 90 mm dia. Windscreen UA-0254 90 mm dia. Windscreen UA-1673 Adaptor for Standard Tripod UA-1674 DEVELOPMENT TO STANDARD STA | AU-1476                                 |   |                     | ,,   |
| Software for Hand-held Analyzers  ZG-0429 Mains Power Supply  QB-0061 Battery Pack Stylus  BASIC KIT FOR 2250 LIGHT (UA-1703) FB-0691 Hinged Cover for Hand-held Analyzer  UA-1654 5 Extra Styli  UA-1673 Adaptor for Standard Tripod  UA-1251 Lightweight Tripod  UA-1251 Lightweight Tripod  UA-1254 9 0mm dia. Windscreen  DA-0085 SD Memory Card  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer  VA-0254 9 0mm dia. Windscreens (6 pack of UA-0237)  UA-1673 Adaptor for Standard Tripod Mount  VA-1654 5 Extra Styli  VA-1654  | R7_5208                                 |   |                     | 71   |
| ZG-0429 Mains Power Supply  Battery Pack Stylus  BASIC KIT FOR 250 LIGHT (UA-1703) FB-0691 Hinged Cover for Hand-held Analyzer  UA-0237 90 mm dia. Windscreen UA-1654 5 Extra Styli  UA-1654 90 mm dia. Windscreens (6 pack of UA-0237)  UA-1654 5 Extra Styli  UA-1654 5 Extra Styli  UA-1654 9 Double Cover for 2250 Light UA-1654 1 For Standard Tripod Mount UA-1654 5 Extra Styli  UA-1654 5 Extra Styli  UA-1654 9 Sextra Styli  UA-1654 1 For Standard Tripod Mount UA-1654 1 For Standard Tripod Mount UA-1654 5 Extra Styli  UA-1654 5  | DZ-3290                                 | •   |                     | Conformance Test of Type 2250, with certificate  |
| QB-0061 Battery Pack Stylus Type 3592 Outdoor Measuring Gear (see Product Data BP 1744)  BASIC KIT FOR 2250 LIGHT (UA-1703) AO-0441-D-030 Microphone Extension Cable, 10-pin LEMO, 3 (10 ft) UA-0237 90 mm dia. Windscreen AO-0441-D-100 Microphone Extension Cable, 10-pin LEMO, 10 (33 ft) Wirst Strap KE-0441 Protective Cover for 2250 Light UA-1654 5 Extra Styli UA-0801 Small Tripod UA-0801 Small Tripod UA-1673 Adaptor for Standard Tripod Mount UA-1654 5 Extra Styli UA-1656  Wrist Strap Wist Strap UA-1654 5 Extra Styli UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1054 90 mm dia. Windscreens (6 pack of UA-0237) UL-1009 SD Memory Card for Land-held Analyzer UA-1261 Lightweight Tripod UA-1251 Uightweight Tripod UIghtweig | ZG-0429                                 | ·   | MEASURING           |  |
| BASIC KIT FOR 2250 LIGHT (UA-1703)  FB-0691 Hinged Cover for Hand-held Analyzer UA-0237 90 mm dia. Windscreen DH-0696 Wrist Strap KE-0441 Protective Cover for 2250 Light UA-1654 5 Extra Styli UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod UA-1654 5 Extra Styli UA-1654 5 Fextra Styli UA-1657 UA-1251 Lightweight Tripod UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1255 Protector - software for calculation of Persona Noise Exposure  SERVICE PRODUCTS  Extended Warranty, one year extension UA-12550 Light to Type 2250, performents  | QB-0061                                 | Battery Pack                              |                     | Outdoor Measuring Gear (see Product Data         |
| FB-0691 Hinged Cover for Hand-held Analyzer UA-0237 90 mm dia. Windscreen DH-0696 Wrist Strap KE-0441 Protective Cover for 2250 Light UA-1654 5 Extra Styli UA-08801 Small Tripod UA-0891 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount UA-1654 5 Extra Styli UA-1655 Tripod Extension for Hand-held Analyzer UA-1651 Tripod Extension for Hand-held Analyzer UA-1651 Tripod Extension for Hand-held Analyzers UA-1673 Adaptor for Standard Tripod Mount UL-1009 SD Memory Card for Hand-held Analyzers UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1655 Type 7815 Noise Explorer – data viewing software Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-109 SD Memory Card UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount UA-1673 Adaptor for Standard Tripod Mount UA-1673 Lightweight Tripod UA-1673 Adaptor for Standard Tripod Mount UA-1673 Lightweight Tripod UA-1673 Adaptor for Standard Tripod Mount UA-1673 Lightweight Tripod UA-1673 Lightweight Tripod UA-1705) Exervice PRODUCTS SERVICE PRODUCTS UA-1673 Light to Type 2250, performent  |   | Stylus                                    | · ·                 | • ,  |
| UA-0237 90 mm dia. Windscreen  DH-0696 Wrist Strap  KE-0441 Protective Cover for 2250 Light UA-1654 5 Extra Styli  PLUS KIT FOR 2250 LIGHT (UA-1704)  FB-0691 Hinged Cover for 2250 Light UA-1673 Adaptor for Standard Tripod Mount UA-1654 5 Extra Styli  WA-0586 Wrist Strap  KE-0441 Protective Cover for Hand-held Analyzer UA-054 PLOSE Wrist Strap  KE-0441 Protective Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount UA-1654 5 Extra Styli  WA-1654 5 Extra Styli   | BASIC KIT FOR                           |   | AO-0441-D-030       | Microphone Extension Cable, 10-pin LEMO, 3 m     |
| DH-0696 Wrist Strap  KE-0441 Protective Cover for 2250 Light UA-1654 5 Extra Styli  PLUS KIT FOR 2250 LIGHT (UA-1704)  FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount UH-1009 SD Memory Card for Hand-held Analyzer UA-1654 5 Extra Styli  TIPODE SD Memory Card for Hand-held Analyzer UA-1654 5 Extra Styli  NTERFACING  Type 7815 Noise Explorer – data viewing and calculation software  Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UL-1009 SD Memory Card  Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount UA-1673 Extra Styli Extended Warranty, one year extension UA-1673 Adaptor for Standard Tripod Mount UA-1673 Extra General Service Products  SERVICE PRODUCTS  Extra Styli Extended Warranty, one year extension UApgrade of 2250 Light to Type 2250, performents  |   |   | A O O A A A D A O O | ,  |
| KE-0441 Protective Cover for 2250 Light UA-1654 5 Extra Styli UA-0587 Tripod PLUS KIT FOR 2250 LIGHT (UA-1704) FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount DH-0696 Wrist Strap KE-0441 Protective Cover for 2250 Light HT-0015 Earphones UA-1654 5 Extra Styli Type 7815 Noise Explorer – data viewing software Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UL-1009 SD Memory Card Tripod Extension for Hand-held Analyzer UL-1009 SD Memory Card for Hand-held Analyzers Type 7821 Evaluator Light – data viewing and calculation software Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount  KE-0440 Travel Bag UA-0587 Tripod UA-0801 Small Tripod UA-1317 Microphone Holder UA-1651 Tripod Extension for Hand-held Analyzer UL-1009 SD Memory Card for Hand-held Analyzer UA-1654 5 Extra Styli INTERFACING Type 7821 Evaluator Light – data viewing and calculation software Type 7825 Protector – software for calculation of Persona Noise Exposure  SERVICE PRODUCTS  SERVICE PRODUCTS  2250-L-EW1 Extended Warranty, one year extension Upgrade of 2250 Light to Type 2250, performents  |   |   | AO-0441-D-100       | ·  |
| PLUS KIT FOR 2250 LIGHT (UA-1704)  PLUS KIT FOR 2250 LIGHT (UA-1704)  FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount DH-0696 Wrist Strap UA-1654 5 Extra Styli  HT-0015 Earphones UA-1654 5 Extra Styli  HT-0015 Earphones UA-1654 5 Extra Styli  Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1009 SD Memory Card for Hand-held Analyzer Type 7821 Evaluator Light – data viewing and calculation software  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  FB-0691 Hinged Cover for Standard Tripod Mount UA-1673 Adaptor for Standard Tripod Mount  UA-0881 UA-0881 Tripod UA-1651 Tripod Extension for Hand-held Analyzer UL-1009 SD Memory Card for Hand-held Analyzer UA-1654 5 Extra Styli  INTERFACING Type 7821 Evaluator Light – data viewing and calculation software Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount  UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount  UA-0881 Microphone Holder UA-1851 UA-1851 Tripod Extension for Hand-held Analyzer UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1654 5 Extra Styli  Noise Explorer – data viewing software Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  ERROLL HAND-1009  SD Memory Card Tripod Mount  UA-1654 5 Extra Styli  Noise Explorer – data viewing software Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  ERROLL HAND-1009  SD Memory Card for Hand-held Analyzer UA-1654 5 Extra Styli  NOise Explorer – data viewing software Type 7825 Protector – software for calculation of Persona Noise Exposure  |   | •   | KE-0440             |  |
| PLUS KIT FOR 2250 LIGHT (UA-1704)  PB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount UH-1013 CF Memory Card for Hand-held Analyzers UA-1654 Protective Cover for 2250 Light HT-0015 Earphones UA-1654 5 Extra Styli  UA-1654 5 Extra Styli  UA-1654 5 Extra Styli  UA-1654 5 Type 7815 Noise Explorer – data viewing software Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UL-1009 SD Memory Card UL-1009 SD Memory Card Type 7821 Evaluator Light – data viewing and calculation software UL-1009 SD Memory Card  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount  UA-0801 Small Tripod UA-1651 Tripod Extension for Hand-held Analyzer UA-1651 UI-1009 SD Memory Card for Hand-held Analyzer UA-1654 5 Extra Styli  INTERFACING Type 7825 Protector – data viewing software Type 7821 Evaluator Light – data viewing and calculation software Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Extended Warranty, one year extension UA-1673 Lightweight Tripod Mount  UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Lightweight Tripod Mount  UA-0801 Small Tripod Microphone Holder UA-1651 Tripod Extension for Hand-held Analyzer UA-1651 Tripod Extension for Hand-held Analyzer UA-1651 UI-1009 SD Memory Card for Hand-held Analyzer UA-1654 5 Extra Styli  Type 7825 Protector – software for calculation of Persona Noise Exposure  SERVICE PRODUCTS  2250-L-EW1 Extended Warranty, one year extension UA-1673 Upgrade of 2250 Light to Type 2250, performent   |   |   |                     | •  |
| PLUS KIT FOR 2250 LIGHT (UA-1704)  FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount DH-0696 Wrist Strap KE-0441 Protective Cover for 2250 Light HT-0015 Earphones UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1251 UL-1009 SD Memory Card  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount  UA-1673 Adaptor for Standard Tripod Mount  UA-1673 Adaptor for Standard Tripod Mount  UA-1673 Lightweight Tripod Mount  UA-1673 Adaptor for Standard Tripod Mount  UA-1673 Adaptor for Standard Tripod Mount  UA-1673 Lightweight Tripod Mount  UA-1673 Adaptor for Standard Tripod Mount  UA-1673 Lightweight Tripod Mount  UA-1673 Microphone Holder  Tripod Extension for Hand-held Analyzer  UA-1651 Tripod Extension for Hand-held Analyzer  UA-1651 Tripod Extension for Hand-held Analyzer  UA-1651 Tripod Extension for Hand-held Analyzer  UA-1654 SD Memory Card for Hand-held Analyzer  UA-1654 S Extra Styli  INTERFACING  Type 7815 Noise Explorer – data viewing software  Type 7821 Evaluator Light – data viewing and calculation software  Type 7825 Protector – software for calculation of Personal Noise Exposure  SERVICE PRODUCTS  2250-L-EW1 Extended Warranty, one year extension  Upgrade of 2250 Light to Type 2250, performed the tripod Mount  |   | ·   |                     | •  |
| FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount DH-0696 Wrist Strap KE-0441 Protective Cover for 2250 Light HT-0015 Earphones UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1654 5 Extra Styli UA-1655 Type 7815 Noise Explorer – data viewing software Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UA-1251 Lightweight Tripod UA-1251 UI-1009 SD Memory Card  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount  UA-1673 Lightweight Tripod Mount  UA-1673 Lightweight Tripod SERVICE PRODUCTS  2250-L-EW1 Extended Warranty, one year extension UA-1670 UA-1671 UA-1705 UL-1009 Upgrade of 2250 Light to Type 2250, performents   |   |   |                     | •  |
| UA-1673 Adaptor for Standard Tripod Mount DH-0696 Wrist Strap KE-0441 Protective Cover for 2250 Light HT-0015 Earphones UA-1654 5 Extra Styli Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UL-1009 SD Memory Card for Hand-held Analyzers UA-1251 Lightweight Tripod UL-1009 SD Memory Card Type 7821 Evaluator Light – data viewing and calculation software UL-1009 SD Memory Card Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount  UA-1673 Adaptor for Standard Tripod Mount  UL-1013 CF Memory Card for Hand-held Analyzers UA-1654 5 Extra Styli  Type 7815 Noise Explorer – data viewing software Type 7821 Evaluator Light – data viewing and calculation software  Type 7825 Protector – software for calculation of Persona Noise Exposure  SERVICE PRODUCTS  2250-L-EW1 Extended Warranty, one year extension Upgrade of 2250 Light to Type 2250, performent  |   | · · · · · · · · · · · · · · · · · · ·     | UA-1651             | Tripod Extension for Hand-held Analyzer          |
| DH-0696 Wrist Strap  KE-0441 Protective Cover for 2250 Light  HT-0015 Earphones  UA-1654 5 Extra Styli  Type 4231 Sound Calibrator  UA-1251 Lightweight Tripod  UL-1009 SD Memory Card  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  FB-0691 Hinged Cover for Hand-held Analyzer  UA-1673 Adaptor for Standard Tripod Mount  VIA-1673 CI Memory Card to Thand-held Analyzer  UA-1654 5 Extra Styli  Type 7815 Noise Explorer – data viewing software  Type 7821 Evaluator Light – data viewing and calculation software  Type 7825 Protector – software for calculation of Persona Noise Exposure  SERVICE PRODUCTS  Extended Warranty, one year extension  Upgrade of 2250 Light to Type 2250, performents  |   | , ·                                       | UL-1009             | SD Memory Card for Hand-held Analyzers           |
| KE-0441 Protective Cover for 2250 Light HT-0015 Earphones UA-1654 5 Extra Styli Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UL-1009 SD Memory Card  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-1673 Adaptor for Standard Tripod Mount  FSET MANUAL STANDARD SET SEXTRA Styli Type 7815 Noise Explorer – data viewing software Type 7821 Evaluator Light – data viewing and calculation software Type 7825 Protector – software for calculation of Persona Noise Exposure  SERVICE PRODUCTS  Extended Warranty, one year extension Upgrade of 2250 Light to Type 2250, performents  |   |   | UL-1013             | CF Memory Card for Hand-held Analyzers           |
| HT-0015 Earphones INTERFACING  UA-1654 5 Extra Styli Type 7815 Noise Explorer – data viewing software  Type 4231 Sound Calibrator Type 7821 Evaluator Light – data viewing and calculation software  UA-1251 Lightweight Tripod SD Memory Card Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  FB-0691 Hinged Cover for Hand-held Analyzer SERVICE PRODUCTS  UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount  INTERFACING  Type 7815 Noise Explorer – data viewing and calculation software  Type 7825 Protector – software for calculation of Persona Noise Exposure  SERVICE PRODUCTS  Extended Warranty, one year extension  Uggrade of 2250 Light to Type 2250, performed  |   | ·   | UA-1654             | 5 Extra Styli                                    |
| UA-1654 5 Extra Styli Type 7815 Noise Explorer – data viewing software  Type 4231 Sound Calibrator Type 7821 Evaluator Light – data viewing and calculation software  UA-1251 Lightweight Tripod SD Memory Card Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705)  FB-0691 Hinged Cover for Hand-held Analyzer SERVICE PRODUCTS  UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount 2250-L-MU1 Upgrade of 2250 Light to Type 2250, performentation and the contraction of th |   | · ·                                       | INTERFACING         |  |
| Type 4231 Sound Calibrator UA-1251 Lightweight Tripod UL-1009 SD Memory Card  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount  Type 7821 Evaluator Light – data viewing and calculation software  Type 7825 Protector – software for calculation of Persona Noise Exposure  SERVICE PRODUCTS  2250-L-EW1 Extended Warranty, one year extension Upgrade of 2250 Light to Type 2250, performents  |   | •   | Type 7815           | Noise Explorer – data viewing software           |
| UA-1251 Lightweight Tripod Software UL-1009 SD Memory Card Type 7825 Protector – software for calculation of Persona Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount Software  Service PRODUCTS  Extended Warranty, one year extension Upgrade of 2250 Light to Type 2250, performed  |   | · · · · · · · · · · · · · · · · · · ·     | Type 7821           | Evaluator Light – data viewing and calculation   |
| UL-1009 SD Memory Card Type 7825 Protector – software for calculation of Personal Noise Exposure  ADVANCED KIT FOR 2250 LIGHT (UA-1705) FB-0691 Hinged Cover for Hand-held Analyzer UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) UA-1673 Adaptor for Standard Tripod Mount  Type 7825 Protector – software for calculation of Personal Noise Exposure  SERVICE PRODUCTS  2250-L-EW1 Extended Warranty, one year extension Upgrade of 2250 Light to Type 2250, performed to the advanced by the advanced  | • •                                     |   |                     |  |
| ADVANCED KIT FOR 2250 LIGHT (UA-1705)  FB-0691 Hinged Cover for Hand-held Analyzer  UA-0254 90 mm dia. Windscreens (6 pack of UA-0237)  UA-1673 Adaptor for Standard Tripod Mount  SERVICE PRODUCTS  2250-L-EW1 Extended Warranty, one year extension  Upgrade of 2250 Light to Type 2250, performed to the advanced by the ad | UL-1009                                 | SD Memory Card                            | Type 7825           | Protector – software for calculation of Personal |
| UA-0254 90 mm dia. Windscreens (6 pack of UA-0237) 2250-L-EW1 Extended Warranty, one year extension UA-1673 Adaptor for Standard Tripod Mount 2250-L-MU1 Upgrade of 2250 Light to Type 2250, performe  | ADVANCED KIT                            | ,   | 0=D\#6= ====        | •  |
| UA-1673 Adaptor for Standard Tripod Mount 2250-L-MU1 Upgrade of 2250 Light to Type 2250, performed the adaptor for Standard Tripod Mount   |   | •   |                     |  |
| 7 tauptor for Standard Tripod Mount  |   |   |                     |  |
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|  | DU-0090                                 | whise strap                               |                     | at nodaquation                                   |

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