SCARLET TECH

- OSHA & IEC Noise Accumulation Survey
- OSHA/MSHA/DOD/ACGIH/ISO85/ISO90
- Up to 1,000,000 Logger Data
- Up to 10,000 Dosimeter Survey Storage
- 1 sec to 24 hr Sampling Rate
- Dosimeter & Sound Level Meter Mode

ST-130/S

High Performance, Low Cost

Noise Dosimeter

INTRODUCTION

Need to measure the daily exposure of employees in hard to reach locations, who work shifts or who move about as part of their job? The Noise Dose Meter provides the ultimate solution. Scarlet ST-130 is small, lightweight, cable-free, and can be worn on the shoulder for minimal inconvenience.

Noise dosimeters are ideal for industries where shifts are involved, such as construction (building sites), entertainment (orchestras) and the emergency services (police forces). Rather than having a health and safety officer follow or stay with workers throughout the assessment, each employee can be left to his or her own devices while the noise dosimeter takes accurate and detailed measurements throughout the day. This type of device is particularly useful for measuring the daily noise exposure of workers who move about a lot during their shifts, and for those who work at night.

Noise dosimeters work by storing sound level measurements to provide an average noise exposure reading for a specified period, such as an eight hour workday. The data can be read via a PC software developed by Scarlet Tech. Since the noise dosimeter complies fully with the Control of Noise at Work Regulations, this data can then be used as a record for the Health and Safety Executive (HSE).

The second-by-second measurements provided by noise dosimeters are ideal for performing detailed analyses of daily patterns in exposure. These can be further complemented with our range of precision integrating sound level meters, allowing further investigation and, ultimately, enabling you to select appropriate hearing protection for workers.

FEATURE HIGHLIGHTS

- Perform OSHA and IEC noise accumulation surveys
- 6 built-in standard dose measurement setups: OSHA/ MSHA/DOD/ACGIH/ISO85/ISO90
- One user defined measurement setup
- Adjustable criterion level, exchange rate & threshold
- Data logger up to 10,00,000 readings.
- Sampling times between 1 sec to 2 hr
- Stores up to 10,000 dose meter survey results
- Dose Meter Mode: record time stamp, %Dose, TWA8, LEP, 8h, Leq, SEL, LN%, SPLmax, SPLmin, PeakMAX
- Sound Level Meter mode: Leq, PeakMAX & SEL
- USB interface. Support Windows XP / Vista / 7 / 8

WHY SCARLET TECH

Worldwide occupational and industrial noise regulations stipulate that the typical daily noise exposure of each individual worker must be determined.

The noise dosimeter enables you to measure and control occupational exposure, ensuring compliance with the Control of Noise at Work Regulations, Industrial Hygiene Standards and Occupational Noise Exposure Guidelines. It also provides an effective way to monitor and record long-term personal noise exposure.

Scarlet Tech ST-130/S series offer the low cost but hight performance noise dosimeter to meet all applications. To know more about our range of compact and convenient noise measurement products, please get in touch today.

APPLICATION AREA

- Construction sites
- Orchestras
- Road construction
- Airport
- Police force
- Any fields care about noise dose

TECHNICAL SPECIFICATION

Display	Single LCD MAX reading 999999
Display refresh rate	1 Hz
Standard	IEC 61252-1993; IEC 61672-1-2003 ANSI S1, 25-1992; ANSI S1, 4-1983; ANSI S1, 43-1997
Microphone (ST-130S)	1/2" pre-polarized condenser microphone build in preamplifier: 1V/Pa@250HZ, frequency range: 20 Hz~12.5 kHz, Thermal noise: <25 dB(A)
Microphone (ST-130)	1/2 inch Electret condenser microphone
Measurement (Noise Dose Meter)	Does%, Lxyp, Lxmax, Lxmin, Lxeq, SEL(LAE), PeakMAX, LAVG, TWA, LEP, LN%
Measurement (Sound Level Meter)	Lxyp, Lxmax, Lxmin, Lxeq, SEL(LAE), PeakMAX
Display range	30…90 dB (L) 50…110 dB (M) 70…140 dB (H)
Primary RMS range @ 1 kHz	41…86 dB (L) 55…106 dB (M) 75…125 dB (H)
Max Cpeak measurement	90…143 dB
Dynamics range	60 dB
Accuracy	+/- 1.4 dB @ 94 dB / 1 kHz
Internal memory	Data loger data: 10,000 NDM surveys; 1,000,000 SLM readings
Time weighting	Fast / Slow / Impulse
Frequency weighting	A / C / Z
Frequency range	20 Hz…8 kHz
Starting time	Less than 10 sec
Battery life (ST-130S)	20 hours (9V Alkaline battery x 1)
Battery life (ST-130)	24 hours (9V Alkaline battery x 1)
Dimensions	107 (L) x 65 (W) x 33 (H) mm

Environmental conditions: 23° C ± 5° C, relative humidity < 80%

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