# Model S660

# ANAHEIM SCIENTIFIC

**Sound and Vibration Measurement** 







Model S660 meets the current International standard for sound level meter performance IEC 61672-1:2002 Class 1. This standard directs the inclusion of an A-frequency-weighting filter and frequency weightings of C and Z (zero) frequency weightings.

#### **Features:**

- Measures the Frequency Weighting in parallel simultaneously of A, C, and Z weightings, sounds generally in the range of human hearing.
- 30~130 dB (A weighting). The A weighting is for general noise sound level.
- 35~130 dB (C weighting), C weighting is for measuring sound level of acoustic material control in various environments. C Weighting is usually used for Peak measurements.
- 40~130 dB (Z weighting). Z-weighting is a flat frequency response of 10 Hz to 20 kHz, a flat measurement with equal emphasis of all frequencies.
- Dynamic Range >110 dB. Dynamic range describes the range of the input signal levels that can be reliably measured simultaneously, in particular the ability to accurately measure small signals in the presence of large signals.
- Frequency Range: 10 Hz~16 kHz, wide range of human hearing.
- Microphone is industry standard 1/2" pre-polarized condenser.
   Removable for placement in locations away from the unit. Optional extension cables in either 15 ft (5m) Model MC15, or 20 ft (60 m) Model MC60, are available for this feature.
- Housed in an ergonomic instrument case with a high resolution graphic display and backlight. Portable in the included industrial aluminum carrying case. Also includes wind screen, batteries, and AC adaptor.
- Two year warranty.



## Model S660

Designed for measuring environmental, occupational and product noise as well as meeting current worldwide standards for noise level measurements.

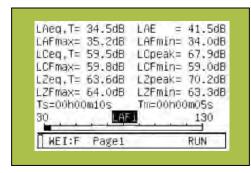
An integrating sound level meter sums the frequency weighted noise energy over a measurement period of time to display the sound exposure and is generally described in decibels (Sound Exposure Level or SEL).



## **Applications**

- Workplace Noise measurements keep employee performance at their peak by limiting noise and other distractions. Noise can shorten attention spans or cause permanent damage if loud enough.
- Measure Fast, Slow, Impulse and Peak values to determine hearing protection needs.
- Maintain sound levels at work for the protection of workers against noise-induced deafness. Chronic exposure to noise could cause noiseinduced hearing loss.
- Environmental noise levels S660 is ideal for spot noise enforcement checks with actual time using the S660 built-in real time clock
- S660 software contains a full range of statistical measurement distributions for measuring environmental noise
- Construction noise, power equipment of individuals and unmuffled industrial noise penetrating residential areas.
- Most city ordinances prohibit sound above a certain threshold intensity from trespassing over property lines at night.
- Follow stringent building codes with requirements of acoustical analysis, in order to protect building occupants from (a) exterior noise sources and (b) sound generated within the building itself.
- The U.S. Occupational Safety and Health Administration has established maximum noise levels for occupational exposure, beyohnd which mitigation measures or personal protective equipment is required.

### **Model S660 Screen Capture Shot**





#### Includes:

- S660 instrument
- Industrial carrying case for portability and instrument protection
- AC adaptor for 100V to 240V
- Wind screen
- Shoulder carrying strap
- Batteries
- Users Manual

## **Optional Accessories:**

- CAL601 Class 1 Sound Level Calibrator, Stable and precise calibrator for the microphone and S665 unit, Sound Pressure levels at 94 and 114 dB, Accuracy 94 ± 0.3 dB and 114 ± 0.5 dB, Frequency
  - $114 \pm 0.5$  dB, Frequency 1000 Hz  $\pm 1$  Hz
- MC15 Extension cable 15 ft (5m) provides ability to locate microphone away from the S660 Sound Analyzer
- MC60 Extension cable 60 ft (20m) provides ability to locate microphone away from S660 Sound Analyzer



| Measurement Items    | LxyI, Lxyp, Lxeq, Lxmin, LAE, LcPeak, Lzpeak<br>X = A, C, Z<br>Y = F, S, I  |
|----------------------|---|
| Measurement Range    | 30~130B (A), 35B~130dB (C), 40dB~130dB (Z)  |
| Dynamic Range        | >110 dB   |
| Maximum Peak C Sound | 70 to 133 dB  |
| Level Measurement    |   |
| Time Weighting       | Fast, Slow, Impulse, Peak   |
| Frequency Weighting  | A / C / Z   |
| Integrating Time     | Random, 10s, 1m, 5m, 10m, 20m, 30m, 1h, 2h, 4h, 8h, 16h, 24h  |
| Frequency Range      | 10Hz ~ 16KHz  |
| Sampling Frequency   | 20.8 μs (48 kHz)  |
| Analog Output        | AC 20 mv/dB   |
| Starting Time        | < 10 sec  |
| Microphone           | ½" pre-polarized condenser microphone with built-in preamplifier: 40 mv/Pa, frequency range: 10Hz ~ 16 kHz, heat noise: < 20 db (A) |
| Display              | Digital LCD with backlight, Real time clock with year, month, minute  |
| Power Requirement    | LR6:4 ea AA Alkaline batteries (8 hours)  |
| AC Adapter           | 100V to 240V  |
| Dimensions           | 285(L) x 90(W) x 39(H) mm (11.2 x 3.5 x 1.5 in)   |
| Weight               | 500g (including batteries) (1.1 lb)   |



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