

## Real Time Octave Band Analyzer

Type 2 integrating sound level meter with Octave and 1/3 Octave Band Real Time display

### Features:

- Wide 100dB range of 30 to 130dB
- 160 x160 dot matrix backlit LCD displays  
Leq, LE, Lmax, Lmin and Lp
- Built-in memory stores up to 12,280 records in SLM mode  
and 1024 data points in 1/1 or 1/3 octave mode
- Stored data can be easily transferred to a PC via RS-232  
interface and analyzed using software & cable provided
- A, C and Flat weighting with Fast or Slow response
- 25Hz to 10kHz frequency response
- Meets ANSI and IEC Type 2 standards
- Internal self test when powered ON
- Detachable 0.52" (13.2mm) diameter condenser  
microphone and Tripod mount provided on rear
- Analog AC/DC recorder output
- Real time clock with Year, Month, Day, Hour,  
Minute and Second display
- Optional microphone extension cable for measurements in  
enclosures and other remote locations (407764-EXT)
- Complete with microphone wind cover, PC software on CD,  
Serial cable, four type C size batteries, adjustment  
screwdriver, 120VAC adaptor and carrying case



### Applications:

- Real time analysis of noise from any source such as  
machinery or vehicles
- Monitor office or plant noise and store data for later  
reference and analysis
- Maintain noise level statistics for internal  
and external audits
- Perform machinery noise monitoring or use for noise  
reduction programs

### Specifications

Applicable standards	IEC 60651 Type 2, IEC 60804 Type 2, IEC 1260-1995, ANSI S1.4 Type 2
Microphone	1/2-inch Electret condenser microphone
Accuracy	±1.5dB (ref 94dB @ 1kHz)
Measurement range	30dB to 130dB
Measurement function	Lp, Leq, LE, Lmax, Lmin, La, Lc
Frequency range	25Hz ~ 10kHz
Sound level meter display	Numerical : 4 digits, up data cycle 0.5s, resolution 0.1dB Bar graph : Scale range 100dB, update cycle 0.125s, resolution 0.1dB Real time clock : Year, Month, Day, Hour, Minute, Second
1/1- 1/3 Analyzer level range	70dB
1/1 Octave and 1/3 Octave band filters	1/1 Octave band center frequencies : (9 bands): 31.5Hz, 63Hz, 125Hz, 250Hz, 500Hz, 1kHz, 2kHz, 4kHz, and 8kHz. 1/3 Octave band center frequencies : (27 bands) : 25Hz, 31.5Hz, 40Hz, 50Hz, 63Hz, 80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, Hz, 8kHz 10kHz
Signal output	AC output : 2 Vrms (at full scale); DC output : 10mVDC / dB
Power	Four type C size 1.5V batteries, External DC power: 6V, 1A
Battery life	Approx. 2hrs
Dimensions & Weight	13.6x3.9x2.4" (34.5x10x6 cm); 33.5oz (950g)

### Ordering Information:

**407790** .....Octave Band Sound Analyzer

**407790-NIST** .....Octave Band Sound Analyzer with NIST certificate

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