

407790A Real Time Octave Band Analyzer



Extech's Type 2 Integrating Sound Level Meter with Octave and 1/3 Octave Band Real Time is displayed on a large 3.5" 320x240 TFT color backlit LCD.

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



Features

- Wide measurement in 5 ranges:
20 to 90dB, 20 to 100dB, 20 to 110dB, and
30 to 120dB, 40 to 130dB
- 3.5" (320x240) TFT color LCD with backlight feature
displays Leq, L_E, L_{max}, L_{min}, L_p, L₀₅, L₁₀, L₅₀, L₉₀, L₉₅
- Stores readings on microSD card
- Transferred data to a PC to be analyzed using software
and cable provided
- A, C and Z 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 Windows[®] compatible software, USB
cable, 4 x C batteries, microphone wind screen, mini
screwdriver, 120V AC adaptor, and case

Ordering

407790A **N** Real Time Octave Band Analyzer

Accessories

407764-EXT 15ft (4.7m) Microphone Extension Cable

407744..... 94dB Sound Level Calibrator

407766..... 94/114dB Sound Level Calibrator

N Indicates products that are available with optional calibration traceable to NIST. Order with -NIST after part number.



UPC Code: 793950407912

Specifications

Applicable standards	ANSI S1.4 Type 2, EN IEC 60651, EN IEC 60804, and EN IEC 1260-1995
Accuracy	$\pm 1.5\text{dB}$ (ref 94dB @ 1kHz)
Measurement functions	Lp, Leq, LE, Lmax, Lmin, L05, L10, L50, L90, L95,
Frequency range	25Hz ~ 10kHz
Frequency Weighting	A, C, and Z
Time Weighting	Fast, Slow, 10ms (τ), I
Display	3.5" (89mm) 320x240 TFT color backlit LCD; Displays 1/1, 1/3, and 1/1 & 1/3
1/1- 1/3 Analyzer level range	5 ranges in 10db steps: 20 to 90dB, 20 to 100dB, 20 to 110dB, 30 to 120dB, 40 to 130dB
1/1 Octave and 1/3 Octave	1/1 Octave band center frequencies: (9 bands); 1/3 Octave band center frequencies: (27 bands)
Signal output	AC output: 1 Vrms (at full scale); DC output: 3.0V, 25mV/dB
Memory	microSD card (included)
Measurement Time	1s to 23h 59m 59s
Power	Four type C size 1.5V batteries, External DC power: 6V, 1A
Dimensions/Weight	13.6 x 3.9 x 2.4" (345 x 100 x 60mm)/ 33.5oz (950g)