

# 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<sub>F</sub>, Lmax, Lmin, Lp, Lo5, 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<sup>®</sup> 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

**CE** UPC Code: 793950407912

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

### Specifications

Applicable standards	ANSI S1.4 Type 2, EN IEC 60651, EN IEC 60804, and EN IEC 1260-1995
Accuracy	±1.5dB (ref 94dB @ 1kHz)
Measurement functions	Lp, Leq, Le, Lmax, Lmin, Los, 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	<ul><li>1/1 Octave band center frequencies: (9 bands);</li><li>1/3 Octave band center frequencies: (27 bands)</li></ul>
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)