



SERIES 620

Enhanced Sound Level Meter

- Time history storage (1s to 30min intervals)
- Voice notes
- GPS
- Compact, rugged design
- Simple operation
- Single large measurement range
- Large memory
- High resolution colour display
- Real-time octave band analysis ('B' models)
- Simultaneous measurement of all workplace noise parameters
- Pre-defined and user configurations available
- Automatic calibration function
- Long battery life



Overview:

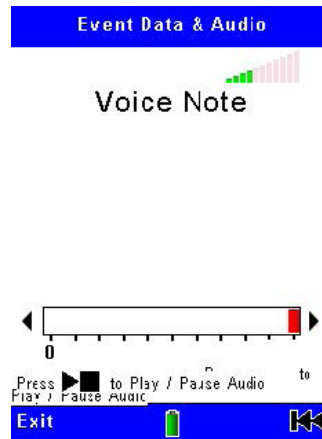
Using a high resolution colour TFT display, the 62x series is specifically designed to ensure taking noise measurements is quick and easy.

High Resolution Colour Display:

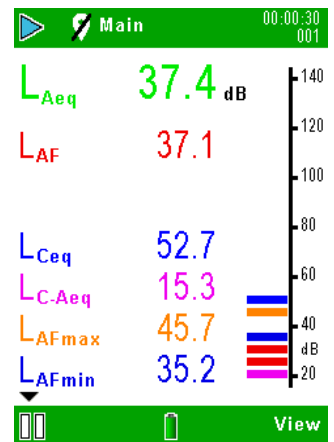
The 620 series uses colours on the high-resolution display to aid the user in making measurements. Measurement screens are colour coded depending on the mode of operation.

Applications:

- Confined spaces
- Hazardous material
- Refineries/
Chemical plants
- Personal monitoring
- Water/Wastewater Plants
- Utilities
- Fire Services
- Pharmaceuticals
- Oil & Gas
- Construction



Audio Notes to save time during measurements.



Broadband measurement screen.



Scan For More Information

Brisbane Office:
1/3 Deakin Street
Brendale QLD 4500
Ph: 07 3481 9000

Perth Office:
5/30 Enterprise Crescent
Malaga WA 6090
Ph: 08 6184 7840

Representatives/Offices In
Sydney Melbourne
Hobart Adelaide
Auckland Wellington



Specifications

Measured Parameters

CEL-620A	LXY, LXYmax, LXYmin, LXeq, LXpeak, Lavg, LC-LA, LXleq, LTM3, LTM5, LAE
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CEL-620B	LXY, LXYmax, LXYmin, LXeq, LXpeak, Lavg, LC-LA, LXleq, LTM3, LTM5, LAE
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Octaves	LXY, LXeq, LXYmax
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Where X is the frequency weighting A, C or Z and Y represents time weighting Fast (F), Slow (S) or Impulse (I). All weightings simultaneously measured where appropriate.

Environmental

In Operation	Relative humidity of 5% to 90% (non-condensing) Temperature 0 to 40°C (Class 2), -10 to 50°C (Class 1) Atmospheric pressure of 65 to 108kPa
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In Storage	0 to 90%RH in the absence of condensation, Temperature -20 to 60°C, Atmospheric pressure of 65 to 108kPa
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Technical Specifications

Application Standards

Octave filters (CEL-620B model only): IEC 61260 Class , ANSI S1.11-2004	ANSI S1.43 - 1997 (R2007)	ANSI S1.4 - 1983 (R2006)
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Technical

Total Measurement range	20 to 140dB RMS (single range), 143.0 dB Peak
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Frequency weightings RMS	Simultaneous A, C & Linear (Z)
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Frequency weightings Peak	Simultaneous A, C & Linear (Z)
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Time weightings	Simultaneous Slow, Fast & Impulse
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Amplitude weightings	Q3, Q4 and Q5 (Q4 & Q5 applicable to Lavg only)
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Thresholds	70 to 90 (dB) in 1 dB steps (applicable to Lavg only)
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Noise floor	<33dB(A) Class 2, <25dB(A) Class 1
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Memory	999 runs, up to 24 hour length per run. 33 hours of audio notes. Up to 1 years storage with 1s time history selected.
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Display	320x240 pixel transmissive colour TFT
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Frequency bands:	11 octave bands 16Hz to 16kHz (CEL-620B model only) Selectable
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Time history:	Time history storage from 1s to 30min
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Audio notes	Audio notes: 8,000 samples per second, 8bit, up to 4kHz
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Calibration information	Stores pre and post run calibration date, time and level
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Output (P.C.)	USB 2.0 'A' to 'Mini B'
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Batteries	3 x AA Alkaline (supplied) or rechargeable
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External power	9-14V DC at 250mA via 2.1mm connector
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Battery life	11 hours with backlight on, 20 hours backlight off
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Tripod mount	1/4" Whitworth socket
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Size mm (in)	72 x 229 x 31mm (2.8 x 9.0 x 1.2")
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Weight gm (oz)	295g (10.4oz)
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Other Accessories

CEL-6840	Standard kit case	CEL-6718	Lightweight tripod
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206084D	Executive kit case	CEL-251	Microphone Class 1
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CEL-6841	Windshield	CEL-252	Microphone Class 2
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CEL-120/1	Acoustic Calibrator Class 1	PC18	Universal power supply
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Digital Technology:

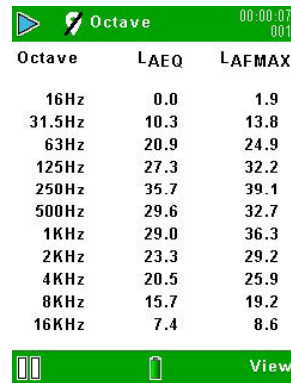
The 620 series measures all the workplace noise parameters simultaneously with necessary time and frequency weightings, preventing incorrect setup of the instrument.

The instrument has a single large measurement range of 20-140dB, eliminating the need to change measurement range and preventing errors.

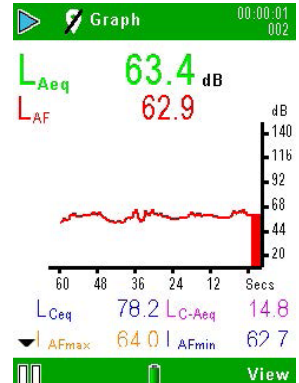
On the CEL-620B model, octave analysis is performed in real-time, saving time compared to performing measurements sequentially.

Octave band results are shown in both bar-graph and tabular form with the dominant frequency highlighted.

Time history of the broadband noise level is displayed in real-time and stored in selectable 1s to 30min intervals, so a user can see how the noise level varies with time.



Tabular octave results



Time history display

Simple Operation:

The menu structure is designed to pick up and use without the use of a manual. A simple icon structure is used with word prompts for each selection.

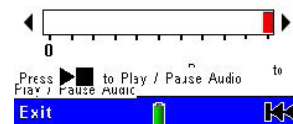
The instrument has six selectable set-ups. Four pre-defined set-ups can be used to satisfy local workplace noise legislation. Two user set-ups can be defined to display parameters and weightings as required.

Up to 999 measurements can be stored without the need to download. All runs are date and time stamped.

- Intuitive menu structure
- Multilingual user interface
- Predefined and user selectable set-ups

Event Data & Audio

Voice Note



Set-up selection



CEL-120 Calibrator:

When the CEL-120 calibrator is attached, the instrument automatically enters calibration mode.



Instrument Kits:

Complete kits are available with acoustic calibrator (CEL-120), kit case, windshield, instruction manuals and USB cable. For a complete instrument kit add /K1 to the part number e.g. CEL 620A2/K1.

A typical instrument kit is pictured. Kits come complete with Casella Insight Data Management Software, see Insight data sheet for more details.

Order Information:

CEL-620A2	Integrating Digital Sound Level Meter (Class 2)
CEL-620B2	Integrating Octave Band Sound Level Meter (Class 2)
CEL-620A1	Precision Integrating Digital Sound Level Meter (Class 1)
CEL-620B1	Precision Integrating Octave Band Sound Level Meter (Class 1)
All instruments and calibrators are provided with calibration certificates.	

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