

## CEL-500 Series Real Time Analyzers

### Introduction

The CEL-500 Series of Real Time Analyzers is a modular design using the latest innovative technology and incorporating the benefits of Digital Signal Processing (DSP) techniques.

### Applications

- Industrial noise assessments
- Environmental noise surveys
- Architectural noise studies
- Product noise development
- Sound quality investigations
- Long term noise monitoring

### Key features

- Upgradeability to add options when required
- Speed of data capture
- Reliability of design
- ANSI approved accuracy
- Modular design
- Flexibility in operation
- Large data storage
- Simple user interface
- Back-lit display
- Confidence in results
- Simultaneous measurements
- Broadband and octave band versions available
- Choice of output formats
- Matching PC software
- Other measurement options as upgrades to starter unit



CEL-500 Model	Frequency Analysis Resolution		
	Broadband only	Broadband and Octave band	Broadband Octave & 1/3 Octave band
Model designation	A	B	C
Standard CEL-553			3 Modes
Classic CEL-573	2 Modes	3 Modes	6 Modes
Professional CEL-593	3 Modes	6 Modes	9 Modes

## CEL-500 Series Real Time Analyzer Applications

Applications	CEL-553C	CEL-573A	CEL-573B	CEL-573C	CEL-593A	CEL-593B	CEL-593C
<b>Sound level analyzer</b>							
Sound level meter mode	√	√	√	√	√	√	√
Snapshot	√	√	√	√	√	√	√
Broadband	√	√	√	√	√	√	√
Real time 1/1 octave	√		√	√		√	√
Real time 1/3 octave	√			√			√
<b>Environmental mode</b>		√	√	√	√	√	√
Fixed profiles		√	√	√	√	√	√
Timed periods		√	√	√	√	√	√
Statistical analysis		√	√	√	√	√	√
<b>Event mode</b>					√	√	√
Threshold exceedance					√	√	√
Event profiles					√	√	√
<b>Fastore mode</b>	◇	◇	◇	◇	√	√	√
Rapid data capture	◇	◇	◇	◇	√	√	√
<b>Building acoustics mode</b>	◇	◇	◇	◇	◇	◇	◇
Reverberation time	◇	◇	◇	◇	◇	◇	◇
Transmission loss	◇	◇	◇	◇	◇	◇	◇
<b>Loudness mode</b>	◇			◇			◇
Sones and Phons	◇			◇			◇
Leq profiles	◇			◇			◇
<b>Logging mode</b>	△	△	△	△	△	△	△
Broadband logging	△	△	△	△	△	△	△
Timed periods	△	△	△	△	△	△	△
Statistical analysis	△	△	△	△	△	△	△
Short profiles	△	△	△	△	△	△	△
Threshold events	△	△	△	△	△	△	△
Real time output	△	△	△	△	△	△	△
Remote control	△	△	△	△	△	△	△
<b>Other standard features</b>	√	√	√	√	√	√	√
Direct output to printer	√	√	√	√	√	√	√
2 Mbyte memory	√	√	√	√	√	√	√
Download cable to PC	√	√	√	√	√	√	√
Windows™ PC software	√	√	√	√	√	√	√
Up to 1,000,000 results	√	√	√	√	√	√	√
Tape recorder trigger	√	√	√	√	√	√	√
Tripod adapter	√	√	√	√	√	√	√
<i>legend</i>	√ = standard		◇ = optional		△ = with dual range units		

### Ordering Information

The CEL-500 series instruments are normally supplied as complete measurement kits that include the required analyzer model plus the relevant acoustic calibrator that matches the accuracy of the instrument, a foam windscreen, an attaché case, a download cable to a PC and a copy of dB1 (or dB5) Windows™ software.



Typical CEL-5X3 Real Time Analyzer Kit

For full details of each individual instrument please contact your local agent or the Casella CEL sales department.