

# SC420

*Sound level meter  
and spectrum analyser*



## CESVA

NOISE  
MEASURING  
INSTRUMENTS  
SINCE 1969

ON & PLAY

# POWERFUL AND ERGONOMIC MODULAR PLATFORM MULTIPLE APPLICATIONS

The SC420 is an instrument that stands out for its **power, versatility, ergonomics** and high performance as a class 1 integrating sound level meter in accordance with IEC 61672, ANSI S1.4 and ANSI S1.43.

Thanks to its **modular platform**, the SC420 can be expanded with advanced measurement options such as one-third octave band spectrum analysis, FFT analysis and reverberation time measurement.

The SC420 provides audio recording with prerecording and voice comments and features external memory through microSD cards, automatic start/stop of measurements and audio recordings based on timers and thresholds. It has also been designed with ON & PLAY technology in order to offer a pleasant, user-friendly experience from the start.

## ON & PLAY

**Intuitive design** which allows the user to focus on the measurement and not on operating the equipment even after long periods of inactivity. Just press the ON button and in just a few seconds the SC420 is ready to measure with no need for adjusting the settings beforehand.



*Evaluation of environmental noise produced by industrial, port and storage operations*



*Environmental impact and monitoring of noise generated by road, rail and airport infrastructures*



*Characterisation of noise emitted by wind turbines on wind farms*



*Monitoring noise from roadworks*



*Noise immission in homes due to traffic, activities and the neighbourhood*



*Measurement of reverberation time in classrooms, restaurants, auditoriums, etc.*



*Measurements of acoustic insulation for airborne noise, impact noise and in façades*



*Statement of noise produced by machines and indication of sound power level*



*Noise generated by HVAC systems*



*Measurement of the noise exposure level of workers in accordance with Directive 2003/10/EC*

# FEATURES FROM ITS INITIAL SETTING AS A CLASS 1 INTEGRATING SOUND LEVEL METER



**External  
microSD  
MEMORY  
CARDS**



**AUDIO  
recording  
(listening quality)  
with prerecording  
and voice  
comments**

- External microSD MEMORY CARDS
- AUDIO recording (listening quality)
- AUTOMATIC MEASUREMENT by time, DEN level and external input:
  - Automatic start/stop of recording
  - Automatic audio recording with prerecording
- Automatic display ZOOM
- File system optimised for Big Data
- MARKS: manual (keyboard) and external input
- BACKERASE
- Built-in USB and BLUETOOTH® connectivity
- Sensitivity and date and time change history
- Ready for environmental monitoring:
  - Auto ON with automatic measurement and logging start
  - Downloads data while it measures
- Sound field corrector selection: free or diffuse



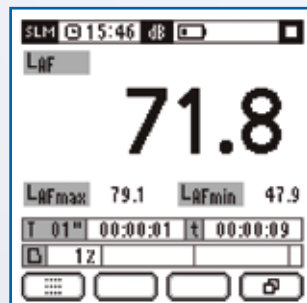
**INCLUDED: CESVA Memory download (CMD):**  
Computer communication software for downloading and managing records stored in the microSD card

## CAN BE EXPANDED WITH ADVANCED MEASUREMENT MODES

Sound level meter  
measurement mode  
included in all settings

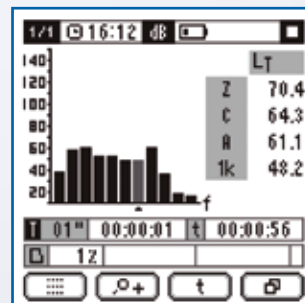
\* Optional modules

See technical specifications  
at [www.cesva.com](http://www.cesva.com)



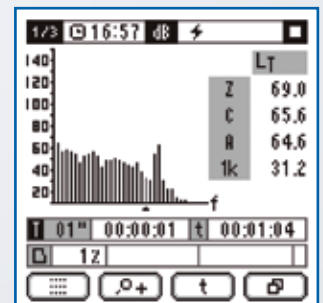
**Sound Level Meter Mode**

All functions measured  
simultaneously with the 3  
frequency weightings (A, C  
and Z)



**OF420 Octave bands \***

Analysis by octave filters  
from 16 Hz to 16 kHz plus  
overall functions and NC and  
NR curves



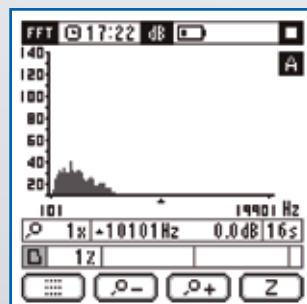
**TF420 1/3 octaves \***

Analysis by 1/3 octave band  
filters from 10 Hz to 20 kHz  
plus overall functions



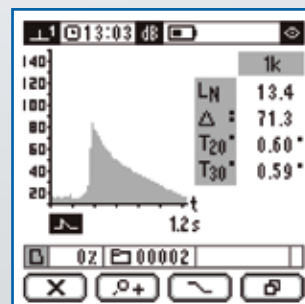
**DS420 Occupational Noise \***

HML and octave evaluation of  
hearing protectors



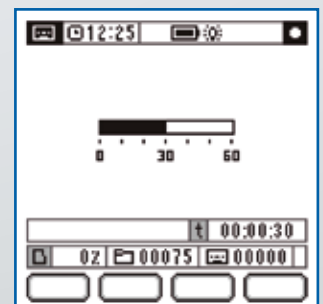
**FF420 FFT Analysis \***

FFT analysis of 10,000 lines  
from 0 to 20,000 Hz  
(2 Hz/line)



**RT420 Reverberation Time \***

RT by 1/1 and 1/3 bands  
Interrupted noise method and  
integrated impulse response  
method



**HI420 Audio quality analysis \***

WAV files (without compres-  
sion), 24 bits at 48 kHz and  
constant gain for later  
analysis

# Proximity, speed, efficiency

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## INFORMATION AND ADVICE

We recommend the best product to suit your needs. Implementation of solutions and equipment.



## WORKSHOPS AND TECHNICAL CONFERENCES

Training seminars throughout the country. Technical conferences and group training: professional colleges, local police, etc.



## CUSTOMER SERVICE

Enquiries about the use of our instruments and software are attended in less than 24 hours by our team of engineers.



## WORLDWIDE DISTRIBUTION

Fast and efficient distribution network. Our products are currently present in more than 40 countries throughout the world.



## QUALITY AFTER SALES SERVICE

- Minimum turnaround time (no need to wait).
- Competitive prices.
- Own laboratory for testing and calibration.

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