

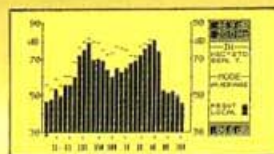


The RC-401 real time spectrum analyser conducts frequency analyses through filters of one octave and one-third octave. A totally portable, high-performance precision instrument, the RC-401 calculates the instantaneous, daily and weekly equivalent continuous levels ( $L_{eq}$ ). It also records the reverberation time (RT) of the whole frequency range in one single measurement.

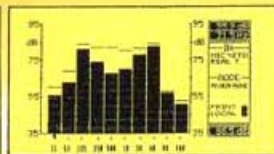
The graphic screen of the RC-401 allows the user to consult the measured values numerically and graphically. It also permits three-dimensional visualisation of spectrum sequences.

The internal memory of the RC-401 has storage capacity of up to 1000 spectrums, and its Autostore function registers them automatically over a programmable period of time. The RC-401 is equipped with the frequency weightings A and C, although it may also function with no weighting. Any stored spectrum may be visualised in octaves or one-third octave, and with any kind of frequency weighting. The RC-401 spectrum analyser includes an internal pink and white noise generator.

The data analysed by the RC-401 may be transmitted to a PC computer (software application included) or printed simply by connecting the instrument to a printer. The RC-401 is equipped with a rechargeable battery for field measurements.



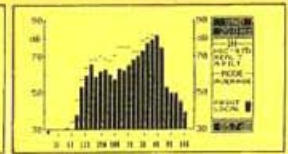
Real time spectrum in 1/3 octave.



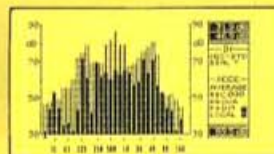
The previous spectrum edited in octaves.



The previous spectrum presented numerically.



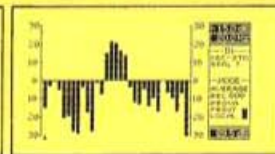
A weighting applied to the same spectrum.



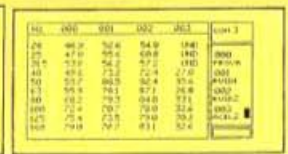
Dynamic comparison between two spectrums (one memorised).



Numerical presentation of the previous comparison.



Dynamic subtraction of two spectrums.



Numerical comparison between 4 spectrums in 1/3 octave.

MX-40 / C-130  
PA-13 / ACE-1



MX-40

The set comprises C-130 microphone and PA-13 preamplifier.



## Accessories

### C-130 condenser microphone

The C-130 condenser microphone has been developed to supply the sector with greatest demand for precision measurements of sound pressure. The use of materials such as nickel and monel, and exhaustive quality control, make the C-130 a highly reliable microphone.

By virtue of its size, type of thread and contacts, the C-130 is interchangeable with most makes commonly found on the market, which also facilitates its calibration in official laboratories.

### Specifications C-130

- Sensitivity: 19 mV/Pa.
- Range: 18 to 150 dBA.
- Frequency response ( $\pm 1$  dB, angle of incidence  $0^\circ$ , free-field) from 31.5 Hz to 12.5 kHz.
- Polarisation voltage: 200 V.
- Capacity: 22 pF (typical).
- Diameter: 13.2 mm.

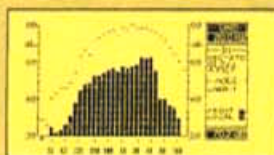
An indispensable tool in the field of acoustic instruments: insulation calculation, room conditioning, equalisation of musical equipment, quality control, employee protection, calculation of absorption coefficients, analysis of industrial noise (turbines, compressors, etc.)...



software  
PC  
INCLUDED

### Specifications RC-401

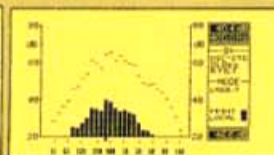
Inputs	Microphone with 3 different calibrations and range from 20 to 130 dB SPL. Line from 1 mV to 30 V. Trigger from 0 to 5 V.
Outputs	For printer. RS-232 for communication with PC. Pink and white noise generator.
Display	124 x 75 mm LCD. On-screen range of 60 dB.
Functions	Average spectrum measurement. Sequences in 3D. Reverberation time (RT) measurement. Instantaneous, daily and weekly LAeq calculation. Programmable autostore.
Memories	Capacity to store and recall 1000 spectrums
Editing	Numerical and graphic presentation. In octaves or 1/3 octaves. With A and C weighting or without weighting.
Supply	Electricity supply and internal 12 V battery.
Dimensions	450 x 340 x 120 mm.



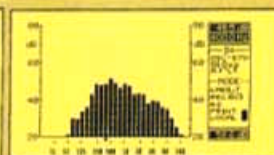
Graphic calculation of LAeq in 1/3 octave.



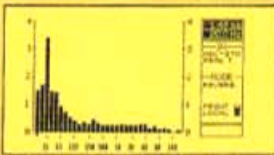
Numerical representation of the previous LAeq calculation.



Graphic calculation of LAeq with several noise spectrums (n-Noise).



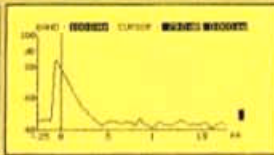
Graphic presentation of daily LAeq.



Graphic representation of the reverberation time in 1/3 octave.



Numerical representation of the previous information.



Temporal evolution of the sound pressure level for the 100 Hz 1/3 octave band.



Three-dimensional representation of a sequence of 50 spectrums.



### PA-13 Preamplifier

The PA-13 preamplifier is designed for half-inch microphones such as the CESVA C-130 and comparable types. By virtue of its wide frequency response and low noise level, the PA-13 is ideal for precision applications. It is also very reasonably priced.

### ACE-1 Accelerometer

The ACE-1 accelerometer needs no charge amplifier. Supplied with cable and connector.

### Specifications ACE-1

- Sensitivity: 100 mV/g.
- Frequency response: 3 Hz to 5 kHz.
- Mass insulation: included.
- Maximum acceleration without breakage: 5000 g.
- Range: 50 g.

### Specifications PA-13

- Gain (at 1 kHz): -0.1 dB.
- Frequency response ( $\pm 0.5$  dB and small signal): 1 Hz to 100 kHz.
- Input impedance: 10 G $\Omega$ .
- Output impedance: 50  $\Omega$ .
- Power Supply: 28 or 120 V.
- Minimal voltage range at output:  $\pm 10$  V (at 28 V) and  $\pm 50$  V (at 120 V).
- Noise (with 1/2" microphone and A weighting): 2.5  $\mu$ V (typical).
- Connector: LEMO with 7 contacts.
- Diameter: 12.5 mm.

**HONKEI**  
**TECHNOLOGY**  
漢基科技

漢基科技香港有限公司  
HONKEI TECHNOLOGY HONG KONG LIMITED  
Tel: (852) 2332 5365 Fax: (852) 2332 5317  
Website: <http://www.honkei.com>  
E-mail: [info@honkei.com](mailto:info@honkei.com)

YOUR BUSINESS PARTNER OF ENVIRONMENTAL & LABORATORY INSTRUMENT