



Applications:

engineering.

Earthquake and civil

Site response studies.

Microtremor studies.

Seismic zonation



CITYSHARK II

MULTICHANNELS ACQUISITION STATION

The product

Advantages

Function

With 18 channels, Cityshark II is a numerous sensors recording station dedicated to ambient noise (microtremors) recording for site and building response studies.

Setting up

- The major advantage of the Cityshark II is its complete synchronisation of all the sensors.
- Direct set up on the station with buttons without neither PC nor external box...
- Internal clock with TCXO 1.5ppm and synchronise by GPS receiver in standart.

Flexibility

■ The equipment will fall in with the CE norms. Its major performances are : large storage, user friendly, flexibility, lightness, rapidity...

This product is the result of a collaboration between LEAS, the University and IRD.

Distributor

VIBRATIONS MESURES - 14 rue Corvisart - 91260 Juvisy sur Orge - France

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Technical characteristics

Electrical Mechanical

■ Voltage : Internal 12,6 Volts DC (with possibility of

complementary external battery).

■ Consumption: 140 mA without GPS, without sensor

200 mA without sensor.

■ Internal battery range :16 – 20 hours.

Auto power off mode in case of low battery (<10V).

Analog input : 18 channels (differential inputs).

■ Amplificator gain : selectable gains 2⁰ - 2¹³.

■ ADC : 24 bits Delta Sigma.

■ Dynamic range : 108 dB at 100Hz.

90 dB at 250 Hz.

■ Sample rate : 5 selectable rates (50, 100, 125, 200,

250 Hz).

■ Dimensions : 420 x 335 x 180 mm.

■ Weight: 10 kg.

■ Temperature range : -10°C / + 55°C.

Housing: IP 65 poly-carbonat case

I / O: - 6 sensor inputs with 12 volts power

supply for activ sensors

- 1 external power supply and battery

charger
- 1 RS_232
- 1 GPS antena

Connectors: waterproof Souriau 851 type.

Leak tightness: IP65

Use

Recording modes

Recording windows: 1 - 60 minutes.

■ Recording time frequency (0 - 12 hours).

Storage

■ Extractable flash card 128 MB : storage capacity of 6 hours at 100 Hz (uncompressed data). PCMCIA compatibility.

Communication

■ Parameters : - Gain,

Sample rate,Storage duration,

- Cycled recording at chosen time intervals.

■ Control led : - Recording in progress.

Software provided : - "Citysha", transfer software from flash card to PC, ending data in Excel format.

Built in four lines display.

Noise level display

Low battery detection

