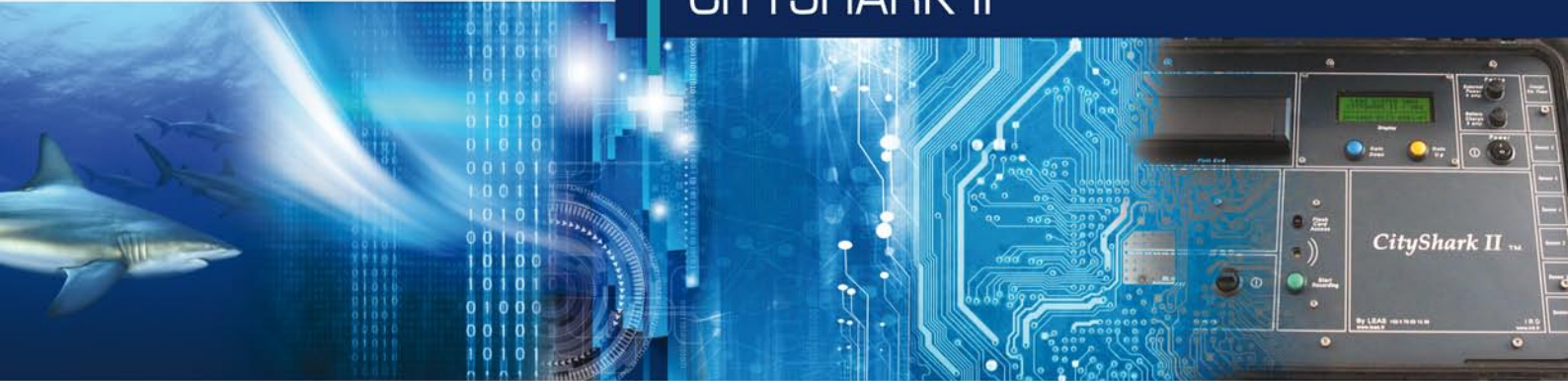


AMBIENT VIBRATION RECORDER CITYSHARK II



APPLICATIONS

- AMBIENT VIBRATION STUDIES – SINGLE STATION OR ARRAY
- CIVIL ENGINEERING INVESTIGATION
- EARTHQUAKE MONITORING
- GEOPHYSICAL RESEARCH

CITYSHARK II IS A RELIABLE VERSATILE DATA ACQUISITION SYSTEM DEDICATED TO GEOPHYSICAL AND CIVIL APPLICATIONS.

THIS SYNCHRONOUS MULTI-CHANNEL (UP TO 18) RECORDING DEVICE MAINLY DESIGNED FOR AMBIENT VIBRATION RECORDING IS ABLE TO RECORD ANY LOW VOLTAGE SIGNAL.

CITYSHARK II IS A USER-FRIENDLY COMPACT PORTABLE TOOL EFFICIENT FOR SOIL AND BUILDING DYNAMIC PARAMETERS STUDIES.

THE INTERNAL GPS, HIGH QUALITY CLOCK AND CONTINUOUS RECORDING CAPABILITIES ALLOW CITYSHARK II TO BE USED ALSO FOR EARTHQUAKE MONITORING.



CITYSHARK II IS AN INDEPENDENT PORTABLE DEVICE WITH A POWERFUL INTERNAL BATTERY, A REMOVABLE COMPACT FLASH CARD FOR EFFICIENT DATA STORAGE FOR SYNCHRONOUS RECORDING OF ONE TO SIX 3-COMPONENT SENSORS, I.E. 3 TO 18 CHANNELS.

CITYSHARK II ADVANTAGES ARE: FLEXIBILITY, PORTABILITY, ACCURACY AND LARGE STORAGE CAPACITY.

RECORDING PARAMETERS ARE SET-UP THROUGH PUSH BUTTONS; NO NEED TO USE AN EXTERNAL DEVICE.

BOTH PASSIVE AND ACTIVE SENSORS MAY BE USED. ACTIVE SENSORS ARE DIRECTLY POWERED BY THE STATION ITSELF THROUGH THE SAME CABLE AS THE RECORDED SIGNAL.

INTERNAL NOISE IS SO LOW THAT IT ALLOWS USING A 4.5 HZ SENSOR TO STUDY FREQUENCIES DOWN TO AS LOW AS 0.2 HZ.



DATA SOFTWARE PACKAGE

TECHNICAL CHARACTERISTICS

Internal battery: 12V/7Ah (lead battery)

Power: 1,4 W one sensor version
2,4 W six sensors version

Analog input: 3 to 18 channels
(differential inputs)

14 selectable gains: 1 to 8192 (0 to 78dB)

ADC: 24 bit Delta Sigma

18 selectable sample rates: 10 to 1000 sps

Dynamic range: 108dB @ 100sps
90dB @ 250sps

Extractable Compact Flash Card

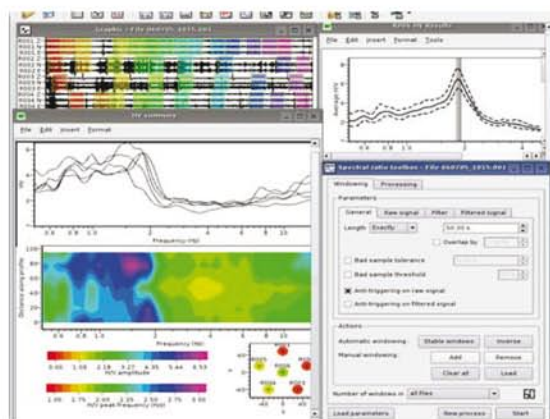
Storage Capacity: 2GB

Low Voltage Battery detection

Internal GPS

Continuous recording mode with
selectable data storage size
(1 to 60 minutes)

Possibility to connect to an external battery



Cityshark II combined to ReadCity software and Geopsy open source software is the best solution for easy laptop data processing of ambient vibration recordings.

MECHANICAL CHARACTERISTICS

Dimensions:	420x335x180mm
Weight:	5kg
Operating temperature:	-10°C / +55°C
Protection rating:	IP65
Connectors :	SOURIAU 851
Lennartz compatibility	

Cityshark II is delivered with a GPS antenna, battery charger and a flash card.

