



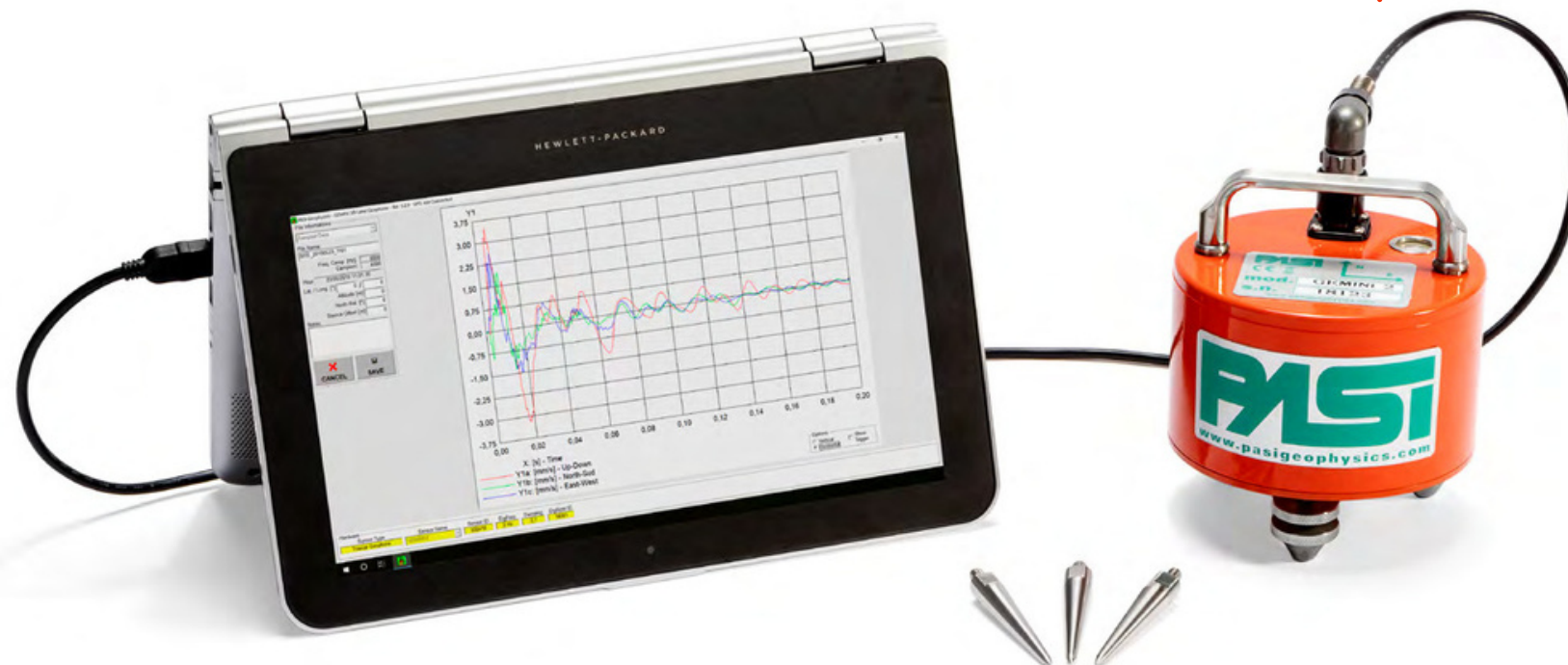
GEMINI2

Data Acquisition System with
integrated 3D Land geophone



GEMINI2

is a compact solution for HVSR, determination of Building Resonance Frequency and MASW acquisitions (Rayleigh+Love): in the same waterproof case are mounted an integrated low frequency, high performing 3C Land Geophone assembly (1 vert. + 2x horiz. properly coupled sensors, 2Hz Freq.) and a powerful true 24 bit data acquisition board with USB port for external PC.



*PC not included in the supply



METHODS

GEMINI2

- HVSR (Nakamura) /
BUILDING RESONANCE
FREQUENCY (passive seismics)
- SURFACE WAVES
(active seismics: MASW RAYLEIGH+LOVE
requires external trigger option)
- P&S WAVES REFRACTION
(active seismics: requires
external trigger option)



DISCOVER THE
SOLUTIONS

GEMINI2



GEMINI2 for HVSR/ NAKAMURA (passive seismics)

Thanks to the dedicated acquisition software, Gemini2 and your PC will turn into a perfect acquisition system for passive seismic. Standard version can acquire up to 720 min (12 hours), compatible with memory and the autonomy of your laptop PC (customizations on request for applications that require longer recording length, even under remote conditions). Gemini 2 output data format is selectable between SAF-Sesame ASCII Format standards and SEG2 standards, compatible with the best freeware and software on the market. With the GPS option, georeferencing and acquisition timing will be possible; likewise, more Gemini2 units can be synchronized to thousandth of a second, independently from their location. In the absence of GPS signal (such as inside a building), two or more Gemini2 units can still be synchronized by purchasing the trigger option and the multittrigger box.

DISCOVER THE
SOLUTIONS
GEMINI2



GEMINI2 for ACTIVE SEISMICS

With the integrated sensor assembly you can run an "active" 3C acquisition for each single shot; the trigger option - connected to the auxiliary channel Gemini2 AUX - allows the use of a geophone, a piezoelectric hammer switch or even a radiotrigger to start the acquisition.

Thanks to the multitriggger box, two (or more) Gemini2 units can be synchronized via cable using trigger extension cables, or by radio using the radiotrigger. With the GPS option it will be possible georeferencing the acquisition (obviously in presence of GPS signal)

ACCESSORIES GEMINI2



Trigger option

Accompanied by the appropriate accessories, allows the transformation of Gemini2 in a tool for "active" seismic (3 channels + trigger)



Sledge Hammer



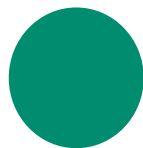
Piezoelectric Starter

Hammer Switch with cable



Starter Geophone

Standard version with 10Hz vertical geophone



ACCESSORIES GEMINI2



Trigger
Cable

Shielded cable on reel, length
130m, for starter geophone /
hammer switch

Extension
Cable



Striking Plate



Horizontal Wave
Striking Plate



GPS Option



Multitrigger Box

This accessory allows the
trigger synchronization
between two separate
acquisition units

TECHNICAL
SPECIFICATIONS

GEMINI2
2-YEAR WARRANTY

DATA
ACQUISITION
BOARD

Power Supply / Data Recording	Through USB port of an external PC (not included)
Data Conversion	24 real bits Sigma-Delta ADC
Sampling Frequency	Max. Freq. 8ksps, simultaneously on 3+1 channels
S/N Ratio	Max 117 db
Bandwidth +/- 0.1 dB	108 Hz @ 1ksps
Bandwidth -3 dB	212 Hz @ 1ksps
No. Of Channel	3 + 1 (trigger)
Data Output Format	SAF (Sesame ASCII Format) / SEG2 (.dat)

Technical specifications subject to change without notice

TECHNICAL
SPECIFICATIONS

GEMINI2
2-YEAR WARRANTY

SENSORS
GEMINI2

Nat.Resonance Frequency	2 Hz ± 10%
Sensibility	2 V / cm / s ± 5%
Internal Resistance	5.8 kΩ ± 5%
Damping	0.7 ± 10%
Harmonic Distortion	≤ 0.2%
Working Temperature	From -25°C a +55°C
Sensor Clamping	Automatic when not in use
Dimensions	Diam. 128 mm h. 175mm (spike excl.)
Weight	2.4 Kg

Technical specifications subject to change without notice



WELKO Av. Providencia 2330,
Oficina 63
+56 9 3174 3870
+56 9 3427 0017
ventas@welko.cl
www.welko.cl



Via Galliari 5/E
10125 Torino - Italy
+39 011 6507033
sales@pasisrl.it
www.pasisrl.it