



ST6

24 bit

6 channels - 24 bit Seismograph

Seismograph for active and passive seismic, equipped with 6 channels, 24 bit resolution, extremely compact and easy to use. Instrument is managed through an intuitive application which must be installed on a PC or tablet with Windows operative system connected to the instrument through USB interface. Ideal for stand-alone passive seismic methodologies such as seismic vibration at time or trigger threshold, non destructive test, surveys on buildings with three-dimensional sensors and HVSR investigations. Management software can be installed on every notebook or netbook and allows to interface with instrument for the management and configuration of recording parameters for all the different typology of seismic investigations. Connection between notebook - tablet and ST6 is made through an USB interface present on instrument panel. Instrument extremely compact dimensions, its reduced weight and quite competitive price, make it particularly ideal to the use in specific situations which require a rugged, reliable and at same time small instrument, easy to transport even in logistically complicated situations. It is possible to connect to ST6 seismograph both 1D (6 channels) and 3D sensors (12 channels), therefore it is particularly recommended also for structural vibrations monitoring.

Methodologies

Seismic Down-Hole/Cross-Hole

Nakamura Method, HVSR, H/V

M.A.A.M.

Refraction Seismic

General

ADC technology	24bit Delta-Sigma ADC
Geophone number	6
Acquisition	Active and passive
Dimensions	21x17x9 cm
Weight	0.5 kg

General

Export compatibility	.seg2; .csv
In-line test	Geophone test, noise analysis
Case	IP67
Enviromental condition	-20°C / 80°C
Power supply	External source

Acquisition

Dynamic range	144 dB (dynamic); 109 dB (at 1ms sampling)
Broadband	-3dB at 3500 Hz
Frequency	from 250Hz to 12kHz active; 251Hz, 502Hz, 1008Hz passive
Gain	from 0 to 36dB
Samples per event	6255 pretrigger; 29127 acquisition
Anti aliasing	-3dB, 80% Nyquist's frequency, -80dB
Common mode rejection	110 dB at 50Hz
Input signal	$\pm 2.5V$
Trigger type	Single-ended trigger, external channel

