

**ST3****24 bit** **New**

3 channel 24 bit seismograph with integrated 3D sensor 2 Hz frequency

The ST3 instrument integrates within an acquisition board equipped with 3 channels with 24 bit resolution for each channel and a 3D sensor with geophones with a natural frequency of 2 Hz. The instrumentation is managed via a laptop or tablet PC connected to the instrumentation via USB connection.

Methodologies

M.A.S.W.

Nakamura Method, HVSR, H/V

General

ADC technology	24bit Delta-Sigma ADC
Geophone number	triaxial 2Hz geophones
Acquisition	Passive
Dimensions	Ø14x10 cm
Weight	2 kg
Export compatibility	.seg2; .csv
In-line test	Noise analysis
Case	IP67
Enviromental condition	-20°C / 80°C
Power supply	External source

General

Acquisition

Dynamic range	144 dB (dynamic); 109 dB (at 1ms sampling)
Broadband	-3dB at 3500 Hz
Frequency	251Hz, 502Hz, 1008Hz
Gain	from 0 to 42dB
Anti aliasing	-3dB, 80% Nyquist's frequency, -80dB
Common mode rejection	110 dB at 50Hz
Input signal	$\pm 2.5V$

