Technical Data of W2Z 3C

Structure	2.4 GHz multichannel seismic system Each Unit acquires 3 orthogonal axis X,Y,Z
Antenna	Directional Antenna inside box
Working Range	500m in open field, in optical sight.
Max units number	256 or more
Resolution in Acquisition	24 bit
AD Converter	Sigma Delta and FIR decimation filter with linear phase
Sampling Frequency	250Hz, 500Hz, 1000Hz, 2000Hz, 4000Hz, 8000Hz (8msec,4msex,2mesc,1msec,0.5msec,0.25msec, 0.125msec)
Bandwidth	From 0.1Hz to 3200Hz Fs=8000Hz From 0.1Hz to half Fs for other rates Sensor upper limit is about 2500Hz and is filtered from 1200Hz with RC filter
Nyquist frequency	4000Hz at every Fs
Number of samples in trigger mode	Each Unit can acquire 256, 512, 1024, 4096, 8192 samples of axis X,Y and Z simultaneously or independently
Trigger	A dedicated radio unit works for triggering; it works in opening or closing contact.
Continuous Sampling	Continuous Acquisition can be done at 250Hz, from axis X,Y,or Z or both, for 60 minutes max.
Power	Each unit is equipped with a Li-Ion battery. MOM unit is powered by USB and battery.
Autonomy	Some days of normal operations in seismic campaign
Recharging	Common wall adaptor with USB port. At least 8 hours for completely discharged battery
Battery Control	Charge state visible on software app. Hardware equipped to prevent battery damage.
Signal/RMS noise ratio measured	>124dB at Fs=1000Hz, geophonic input shorted
Units Position not critical	Depending on your application, Units can be placed in any position
Software	Application for Windows XP, 7, 8 and 10 allows easy setting of all acquisition parameters and produces sg2 and saf Sesame files for further analysis. Low pass filter can be excluded or added as desired. Spectral analysis available.
Weight	467 g