

Technical Data of W2Z

Structure	2.4 GHz multichannel seismic system
Antenna	Directional Antenna inside box
Working Range	500m in open field, in optical sight.
Max geophonic units number	256 or more
Resolution in Acquisition	24 bit
AD Converter	Successive Approximations with downsampling and averages
Sampling Frequency (Fs)	125Hz, 250Hz, 500Hz, 1000Hz, 2000Hz, 4000Hz, 8000Hz, 16000Hz
Number of samples in trigger mode	256, 512, 1024, 4096, 8192, 16384
Trigger	A dedicated radio unit works for triggering; it works in opening or closing contact.
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. Hardware equipped to prevent battery damage.
Bandwidth	Up to 590Hz, 3 poles low pass filter
Input impedance	47K ohm/can be changed according to costumer
Nyquist frequency	8000Hz at every Fs
Signal/RSM noise ratio measured	>124dB at Fs=1000Hz, geophonic input shorted
Software	Application for Windows XP, 7, 8 and 10 allows easy setting of all acquisition parameters and produces a seg2 file for further analysis
Geophones	Each Unit (corresponding to a channel) can be connected to a geophone with desired specifications
Weight	467 g
Size	Length=120mm Width=110mm Height=55mm With spike, Length=340mm