

*In an era when system specifications for almost all seismic systems differ so little, it is much more important to consider functionality. This should compare different approaches to cableless operations as well as cabled acquisition.*



## SIGMA™ FEATURES AND FUNCTIONALITY

FEATURE	FUNCTIONALITY	NOTES
Cableless shoot-blind.	Continuous recording.	The limit of many other cableless systems.
Cableless mesh radio network - MRN.	Continuous recording, box remotely controlled. Comprehensive QC and status return, including RMS noise, geophone tests, battery, GPS etc..	Wireless option to take the risk out of shoot-blind.
Cableless Wi-Fi link.	Full data return without cables.	Use everywhere, or just for a few channels, perhaps for seeing full noise records.
Impulsive sources.	All types supported with integrated source control.	See Seismic Source Co. product information for information on shooting systems.
Simple vibroseis.	All types supported with integrated source and QC control.	See Seismic Source Co. product information for information on advanced vibroseis controllers, QC, in-vib recording products.
Advanced vibroseis.	Slipsweep and most overlapping vibroseis methods, with integrated source and QC control.	
Point receiver.	3 channel box for 3 x single geophones.	The widest range of sensors coupled with the greatest choice of acquisition modes.
Sensor arrays.	3 channel box supporting full range of geophone array configurations, marsh phones, etc..	
3C.	Single 3C connector box option available.	
Shallow marine, transition zone.	Sigma ground units support use of hydrophones.	
Battery options.	No hassle with internal batteries. Dual power connectors on ground units.	In cableless operations, system energy usage is more important than instantaneous power consumption. Sigma provides the widest choice of ways to provide and use electrical energy.
Energy saving options.	MRN provides remote control of ground units, conserving battery power.	
Data harvesting: PC based.	Tablet or laptop for mobile data collection, QC purposes during acquisition.	The maximum variety of data harvesting options, which can be mixed and matched for optimum efficiency in any operation.
Data harvesting: Wi-Fi.	From static collection of full data into central system, to pass-by hi-speed data harvesting.	
Data harvesting: Mini-Transporter.	For collecting data from larger number of Sigma ground units without data view or QC operations.	
Data harvesting: Portable Mass Harvester.	Generally installed in small crew vehicle, negating need to stage ground units prior to move-up.	Ground units used for production for maximum length of time.
Data harvesting: Sigma Combined Harvester.	Installed in recording truck or office.	More likely to be used by crews with many thousands of channels.
Fully integrated system.	Coupling Seismic Source and iSeis hardware for maximum reliability and ease of use.	One-stop shops for all recording hardware.