

eSeis

eSeis, a core and proprietary product developed by BGP, has the characteristics of high stability, strong adaptability, simple operation and low price. From “Separation” to “All-in-one”, eSeis has been continuously optimized and upgraded. All technical indicators and functions have reached the level of similar mainstream products.

The eSeis acquisition system mainly includes node unit, harvest and charge integrated rack, data processing system and QC unit.

Technical Spec. of eSeis Neo External Unit



Weight	1.2kg	Pre-Gain	0,12, 24dB
Size	120mm×120mm×93mm	Anti-alias Filter	Linear, Minimum-phase
Operating Temperature	-40℃~+70℃	Sample Rate	0.5ms,1ms,2ms,4ms
Charging Time	<4hrs.	Input Frequency Range	0~1650Hz
Channel Capacity	Unlimited	Max. Input Signal	±2.5Vrms@0dB
Waterproof Level	IP67	Dynamic Range	123dB@2ms/0dB
Storage	16GB	Equivalent Input Noise	< 0.4μV@2ms/12dB
Battery Life	25 days@24hrs./day	THD	≤-107dB
QC Method	Bluetooth module	CMRR	≥100dB
Activation Method	Magnetic switch	Gain Accuracy	≤0.5%
Source Type	Dynamite, Air gun, Hammer, Vibrator etc.	Time Accuracy	±20μs

Technical Spec. of eSeis Integrated Unit



Weight	1.2kg	ADC Resolution	32-bit high-precision Δ - Σ ADC
Size	120mm×98mm×98mm	Pre-Gain	0, 12, 24dB
Operating Temperature	-40°C~+70°C	Anti-alias Filter	Linear, Minimum-phase
Charging Time	<4hrs.	Sample Rate	0.5ms, 1ms, 2ms, 4ms
Channel Capacity	Unlimited	Input Frequency Range	0~1650Hz
Waterproof Level	IP67	Max. Input Signal	±2.5Vrms@0dB
Storage	16GB (customizable)	Dynamic Range	125dB@2ms/0dB
Battery Life	25 days@24hrs./day	Equivalent Input Noise	< 0.4μV@2ms/12dB
QC Method	LoRa module	THD	≤-114dB@0dB
Activation Method	LoRa module	CMRR	≥100dB
Source Type	Dynamite, Air gun, Hammer, Vibrator etc.	Gain Accuracy	≤0.4%
		Time Accuracy	±20μs

Technical Spec. of eSeis Cabinet



Harvest&Charge Integrated Rack		Harvest&Charge Integrated Rack Neo	
Weight	60kg	Weight	180kg
Size (LWH)	850mm×300mm×1750mm	Size (LWH)	184cm×99cm×38cm
Temperature	-20℃~+60℃	Operating Temperature	-20℃~+60℃
Channels	40(10 Rows×4 Columns)	Rated Power	3.35kW
Download Speed	>20MB/s	Channels	48 (8 Rows 6 Columns)
Charging Voltage	8.5V	Charging Voltage	8.5V (Adjustable)
Charging Current	6A	Charging Current	6A(Adjustable)
Rated Power	2KW	Download speed	20MB/s
Weight	60kg	Power Plug Type	16A@220V/50Hz