

## Distributed Land Seismograph

### Model: GS101

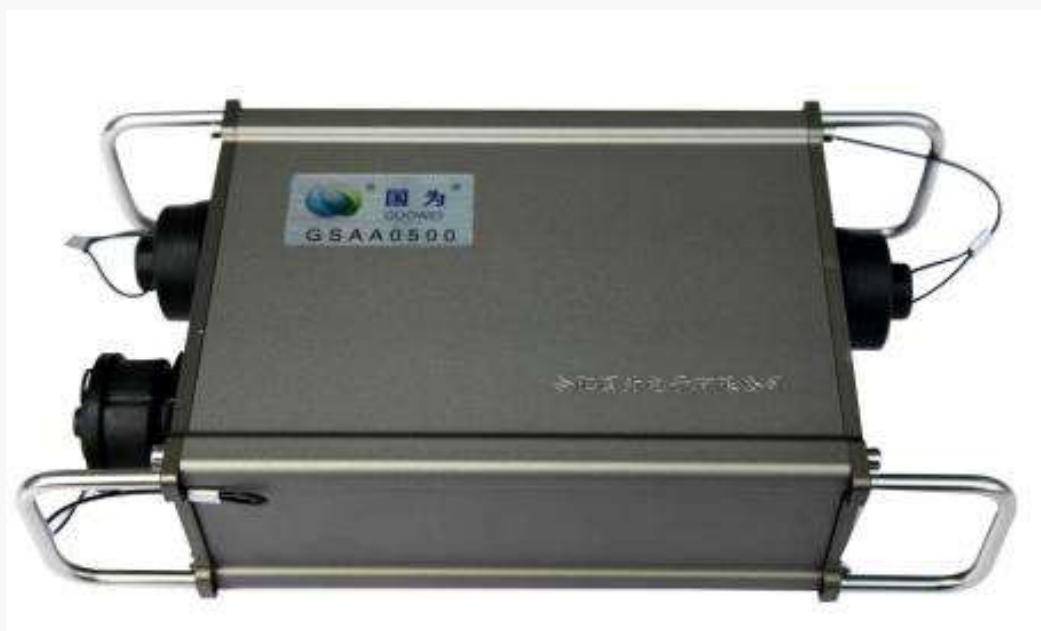
#### Introduction:

Our distributed land seismograph GS101 adopts the 32-bit high precision  $\Sigma - \Delta$  ADC. The distributed design contains the Master box, Cross box and Acquisition box. It is suitable for hundreds of channels 2D and 3D seismic survey exploration.

GS101 is applicable to the seismic work such as reflection, refraction, surface wave exploration, pile foundation inspection, pulse, seismic imaging, vibration measurement and wave velocity (shear wave) test etc.

Till now GS101 has been widely used for different areas engineering geological exploration such as water conservancy, electricity, roads, railways, bridges, urban construction, transportation, groundwater and resources exploration such as oil, coal, coal-bed methane, shale gas, metals and non-metallic mineral. Now we have lots of successful cases all over the world.

#### Product Photos:



(Acquisition Box)



(Cross Box)



(Master Box)

**Features:**

- > 32-bit  $\Sigma$ - $\Delta$ ADC, higher conversion precision, lower noise, attenuation and distortion.
- > Distributed type design, it is perfect for 2D and 3D seismic exploration survey.
- > Higher efficiency, working efficiency is 1-2 times higher than the centralized land seismograph.
- > Lower cost, save at least 10% cost than the centralized land seismograph.

**Technical Parameters:**

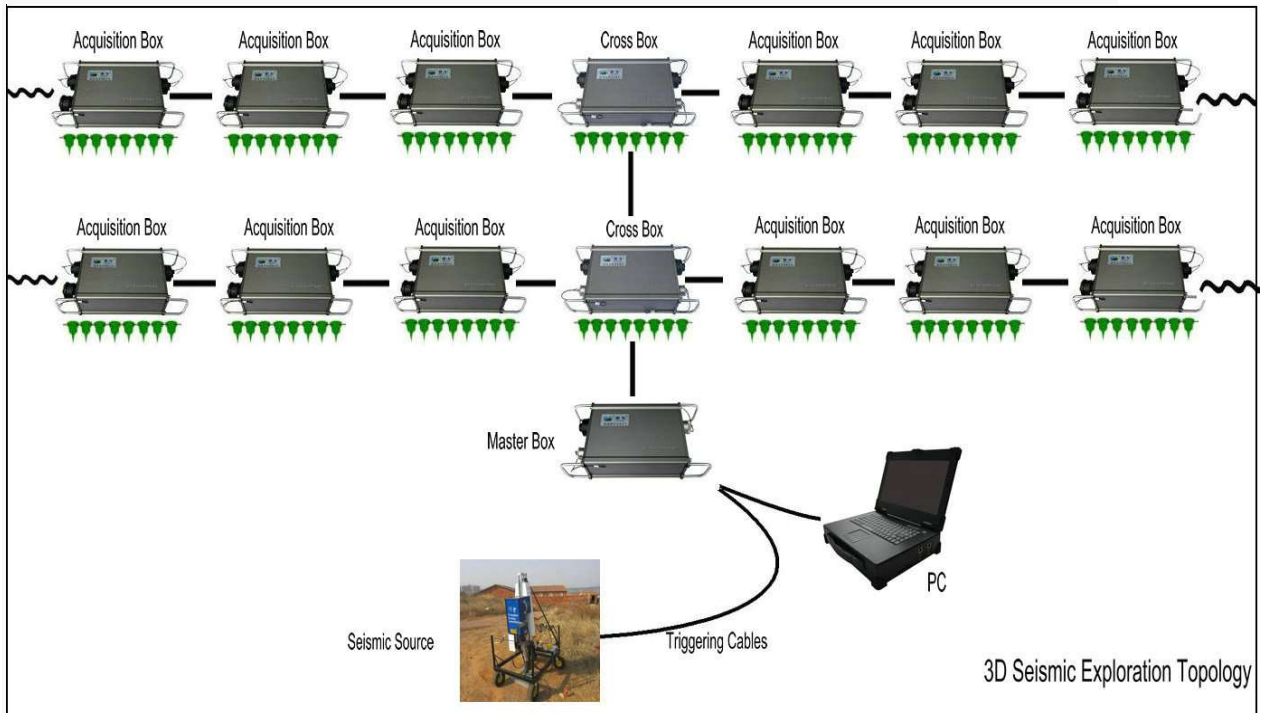
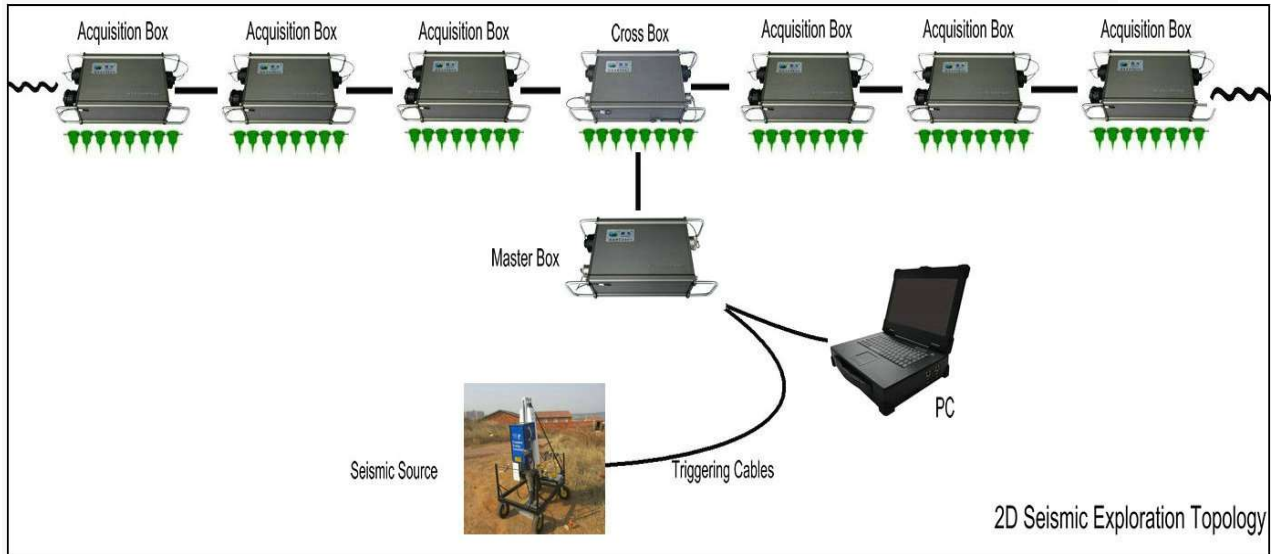
Type	Master Box (MS-101)	Cross Box (CS-101)	Acquisition Box (AS-101)
Storage Format	SEG2, SEGY		
ADC Converter	32-bit $\Sigma$ - $\Delta$ ADC		
Power Supply	Internal battery or external power supply		
Working Voltage(V)	10 ~ 15V		
Power Consumption (W)	3W		
Dimension(MM)	290*145*72mm (Including the handle)		
Weight(KG)	2.65KG(Built in lithium battery)		
Working Temperature (□)	-40~70□		
Storage Temperature (□)	- 40 ~ 85□		
CMRR			>110dB

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Sampling Interval/Rate			20ms,8ms,4ms,2ms, 1ms,0.5ms,0.25ms,0. 125ms,62.5µs,15.62 5µs 10µs
Preamp Gain (dB)			0, 6, 12, 18, 24, 30, 36dB
Synchronous Correction Precision			< 1µS
Full Range Input			3.75 Vpp
Dynamic Range			> 120dB
Gain Accuracy			< 0.1%
Harmonic Distortion			< - 105dB
Noise			1.2µV@1ms@Pream p gain 0db 0.11µV@1ms@Prea mp gain 36dB
Input Impedance			Differential:20KΩ/50n F Common Mode:100KΩ
Low Cut Frequency Configuration			0-10HZ
Transmission Rate	12Mbps(Lower acquisition port), 1 Gbps(The workstation port)	12Mbps(Lower acquisition port)	12Mbps(Lower acquisition port)

**Connection Diagram:**



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### **Application Fields:**

- 1, Foundation, Subgrade and Foundation Engineering Detection
- 2, Tunnel Projects Detection
- 3, Large and Medium-sized Reservoirs Detection
- 4, Bridge Projects Detection
- 5, Environmental and Geological Hazard Detection and Evaluation
- 6, Mined-out area, landslide, karst, landslides, active fault survey.
- 7, Metal and Non-metallic Mineral Exploration
- 8, Coal, Coal-bed Methane, Shale gas, Oil and Other resources exploration 2D and 3D Exploration

For a quote or any questions please contact

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