

**Product Name :**  
Georadar Penetrating Radar

**Product Code :**  
CHINAELABC460002



#### **Description :**

Georadar Penetrating Radar

#### **Technical Specification :**

Ground penetrating radar is a versatile GPR system offering various detecting combination for application in highway, roads, tunnel construction, paving, buildings, bridges, water conservancy, municipalities or military. portable high-performance GPR controller compatible with full series antennas. This device is versatile with wide application range, meanwhile automatically recognize antenna type and configure radar parameters. The Windows-system-based acquisition system is stable and reliable which saves both original data and in-field data. The controller accepts most external installed GPS and be able to add the geographic coordinate information to radar data. The digital signal is transmitted between controller and antenna with high anti-interference ability and good signal-to-noise performance.

GPR controller: Single channel controller

Compatible antenna: antennas

Working channel: 1 channel

Storage space: 128G

Display screen: 10.4", 1024x768 pixel resolution, 32 bit color LED

Accept GPS: Serial Port RS232, accepts GPGGA data format

Display mode: False color, gray level, stacking waves and color stacking wave

Power supply: built-in lithium battery

Power consume: 20W

Continue working time: about 3 hours (depend on temperature, antenna type and cable length)

Measurement: Around 314mmx238mmx64mm

Weight: Around 3kg (without battery)

Working temperature: -20?~+50?

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Storage temperature: -40?~+60?  
Working humidity: Waterproof level: IP65  
Data collection  
Data format: GER (SRD)  
ADC bits: 16 bit  
The max scanning speed: 512 scanning/s (sampling points number is 512)  
Sampling points number: 256, 512, 1024, 2048, 4096, 8192  
Max transmitting frequency: 800kHz  
Collecting modes: Time mode, distance mode and point measurement mode  
Time-window range: 1~8000ns  
Gain range: -10dB~160dB  
Number of gain adjustment points: 9 pieces  
Real time processing functions: Correction zero deviation, FIR filtering, IIR filtering, background removal, average among ways, data overlying  
Exterior installing terminals  
Data transmission: USB 3.0  
GPS: Serial port (RS232) (GPS device is optional)  
Main control: 8-pin aviation socket  
GPR controller: Dual channel controller (max. upto 8 channels)  
Compatible antenna: antennas  
Working channel; 2 channels (equip with laptop)  
Power consume: 40W  
ADC bits: 16 bit  
The max scanning speed: 512 scanning/s (sampling points number is 512)  
Sampling points number: 256, 512, 1024, 2048, 4096, 8192  
Max transmitting frequency: 800kHz  
Collecting modes: Time mode, distance mode and point measurement mode  
Time-window range: 1~8000ns  
Gain range: -10dB~160dB  
Real time processing functions: Correction zero deviation, FIR filtering, IIR filtering, background removal, average among ways, data overlying



**Engineering Lab China**