



# Low Frequency Antennas

## Discover Subsurface Features with GPR

With nearly four decades experience, GSSI continues to design and manufacture the world's best Ground Penetrating Radar (GPR) antennas. GSSI antennas feature the highest signal-to-noise ratio of any antenna available in the industry, providing the highest quality data with clear and accurate results.

GSSI has developed a series of antennas to meet the needs of a broad range of applications. All antennas are interchangeable with any SIR-System.

It is simple to locate features of interest and subsurface layers in real-time, up to 100 feet or more with GSSI low frequency GPR antennas. Configure a system that works best based on a specific application or environmental conditions.

## Features

- Rugged, military-style connectors
- Long-life replaceable wear skirts
- Coated, sealed electronics
- Rugged, high-density molded cables
- Shielding to eliminate above ground interference
- Operates in all temperature conditions, -20°C to 50°C

## 270 MHz

The 270 MHz is suited for deeper utility, engineering and geotechnical applications.

- Center Frequency: 270 MHz
- Depth Range: 0-18 ft (0-6 m)
- Weight: 18.5 lbs (8.6 kg)
- Dimensions: 18x18x6.5 in (45x45x17 cm)
- Model 5104 (U.S.), Model 5104A (International)



## 200 MHz

The 200 MHz can penetrate to a depth of 30 feet (9 meters) which makes it well suited for geotechnical and environmental applications, as well as archaeological investigations.

- Center Frequency: 200 MHz
- Depth Range: 0-30 ft (0-9 m)
- Weight: 45 lbs (20.5 kg)
- Dimensions: 24x24x12 in (60x60x30 cm)
- Model 5106 (U.S.), Model 5106A (International)



## 100 MHz

The 100 MHz antenna is used for deep subsurface applications. The 100 MHz monostatic (top) combines the transmit and receive electronics in a single antenna housing. The 100 MHz bistatic (bottom) is a versatile antenna pair that can operate in three different configurations to optimize performance.

### Monostatic

- Center Frequency: 100 MHz
- Depth Range: 5-50 ft (2-15 m)
- Weight: 28 lbs (13 kg)
- Dimensions: 10x38x22 in (25x96x56 cm)
- Model 3207AP

### Bistatic

- Center Frequency: 100 MHz
- Depth Range: 0-100 ft (0-30 m)
- Weight: 61 lbs (28 kg)
- Dimensions: 10x38x79 in (25x96x200 cm)
- Model 3207F



## 15-80 MHz Multiple Low Frequency

The multiple low-frequency antenna is designed for the deepest radar penetration possible. The antenna design consists of interchangeable elements; by changing the length of the antenna, you change the transmission frequency. This antenna can be deployed in discrete measurements (stacking) or continuous profile data collection modes.

- Center Frequency: 15-80 MHz adjustable
- Depth Range: 0-150 ft (0-50 m)
- Weight: 33-50 lbs (15-23 kg)
- Dimensions: 47-136 inches in length (120-600 cm) adjustable
- Model 3200 MLF

