High Frequency Antennas

Introducing the High Frequency (HF) Shielded Antenna series; offering the best imaging solution with the highest resolution available.

These antennas are primarily used for high precision measurements and surveys, such as Non-Destructive Test (NDT), imaging of concrete and other structure, forensics, road surveys, layer thickness or other applications requiring high resolution measurements and images within near surface, shallow depths.

These antennas offer a reliable and non-destructive way of gathering subsurface information accurately, efficiently and in real time, for both metallic and non-metallic features such as rebar, conduits, wiring, plastic pipes, post-tension cables, voids and more.

The 1.2 GHz and 1.6 GHz antennas are also available with a built-in, fully integrated 50/60Hz sensor to aid in the detection and location of energized cables and conduits within the structure under investigation.

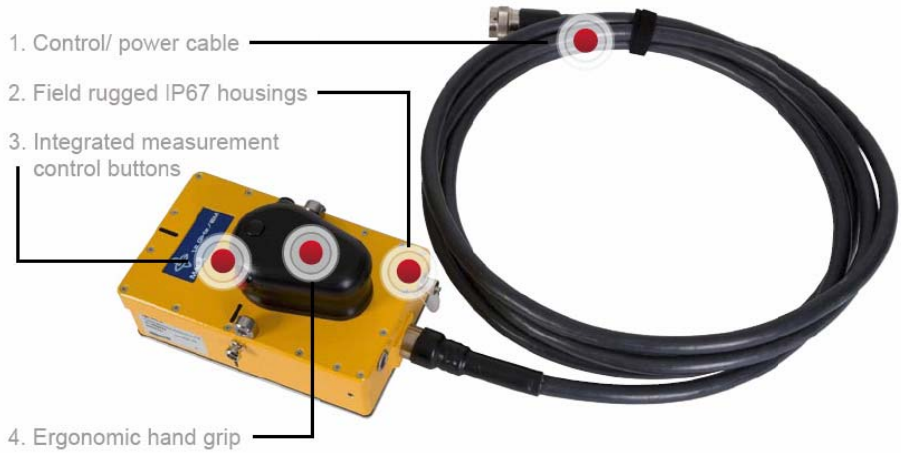
The CX concrete imaging system was the first to offer this unique combination, which can provide an extra measure of safety to any project.


High quality connectors


removable skid/ wear plate


Antenna mini-cart


Single measuring wheel



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Brief Description & Technical Specification

The range of shielded HF antennas is fully compatible with both the CX Concrete Imaging System and the ProEx radar control unit. These antennas are small and lightweight enabling hand-held surveys. They can also be fitted to mini-carts or road survey carts.

1.2 GHz

The shielded 1.2 GHz HF antenna is a high resolution antenna used for high quality radar measurements, with the deepest penetration in the HF range. An optional EM sensor enables the detection of radiating 50/ 60 Hz fields from power cables and/ or other metallic conductors within the structure under investigation.

Dimensions: **190 x 115 x 110 mm – Weight: 1.0 kg**
(1.2 kg with 50/60 Hz sensor option)

1.6 GHz

The shielded 1.6 GHz HF antenna is a high-resolution antenna used for high quality radar measurements, with medium penetration in the HF range. An optional EM sensor enables the detection of radiating 50/ 60 Hz fields from power cables and/ or other metallic conductors within the structure under investigation.

Dimensions: 160 x 90 x 110 mm – Weight: 0.6 kg
(1.2 kg with 50/60 Hz sensor option)

2.3 GHz

The shielded 2.3GHz antenna is a high-resolution antenna used for high quality radar measurements, with shallow penetration in the HF range.

Dimensions: 160 x 90 x 110 mm – Weight: 0.5 kg

Applications: Concrete, reinforcement studies, road mapping and quality assurance

Accessories

A number of accessories are available for the shielded HF antennas, including:

- Mini-cart
- Single measuring wheel
- Extension handle/ cables
- Skid/ wear plates
- Split box for tomography applications

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