



High quality connectors



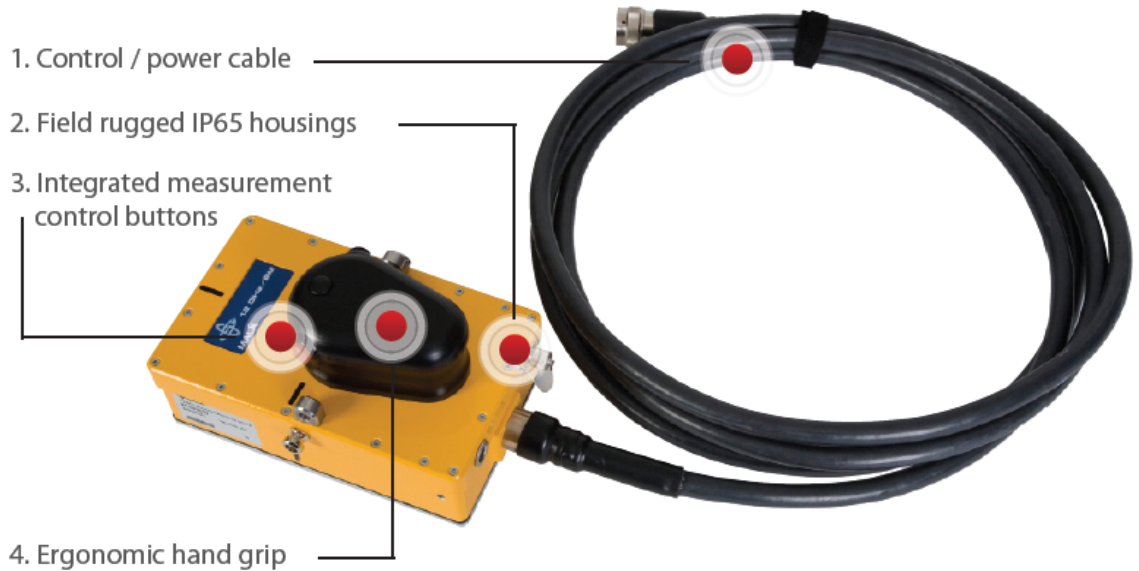
Removable skid / wear plate



HF mini-cart



Single measuring wheel



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 Testing (NDT), imaging of concrete and other structures, 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 50/60 Hz 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.

Brief Description & Technical Specifications

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 the HF Cart or to the RoadCart.

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: 19 x 11.5 x 11 cm – **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: 16 x 9 x 11 cm – **Weight:** 0.6 kg
(1.2 kg with 50/60 Hz sensor option)



2.3 GHz

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

Dimensions: 16 x 9 x 11 cm – **Weight:** 0.5 kg

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



Accessories

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

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