

Detachable elements
(25 & 50MHz only)



Separate antenna elements



Optical connectors



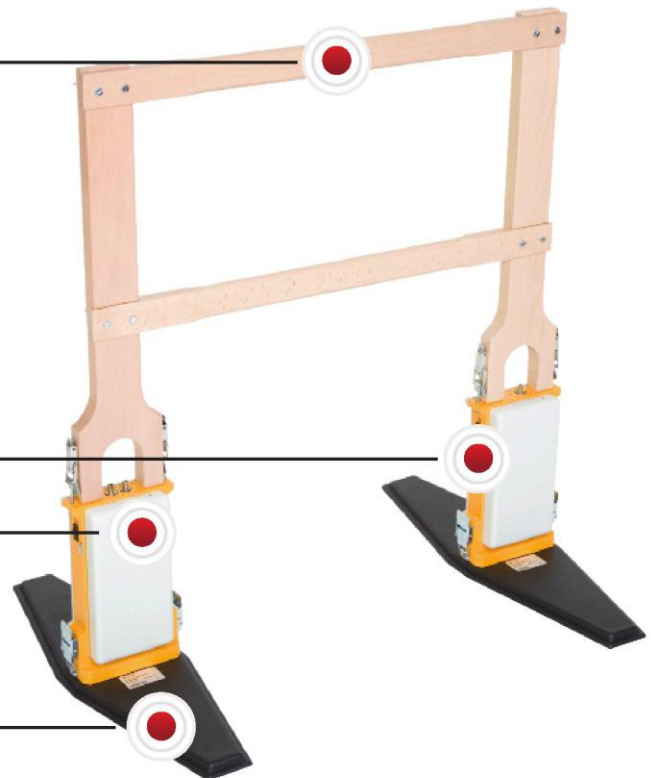
Hip-chain for distance
measurement

1. Antenna handles and spacers

2. Antenna electronics

3. Batteries

4. Antenna elements



MALÅ Unshielded Antennas

MALÅ Unshielded Antenna series consist of antennas with separate transmitter and receiver elements and electronics, allowing them to be operated in several modes for different survey techniques, such as reflection profiling, velocity profiling such as; common mid-point (CMP), or wide angle reflection and refraction (WARR), and also cross-scanning (tomography).

The MALÅ Unshielded Antennas are designed for use in applications that require maximum depth penetration. However, due to the fact that these antennas are unshielded, they are more suitable for use in areas with little or no background noise.

Wooden handles are provided for use with the MALÅ 50, 100 and 200MHz Unshielded Antennas; these are used to carry the antennas and also to keep them separated and stabilized during measurements. Due to the size of the MALÅ 25MHz Unshielded Antenna elements, wooden handles are not practical, so strapping is provided to aid in separation and carrying.

Like all MALÅ GPR systems, the MALÅ Unshielded Antennas have been designed with modularity in mind. The MALÅ Unshielded Antenna Electronics are compatible and interchangeable across the unshielded range. This reduces the cost for owning or expanding a system.

Brief Description & Technical Specification

All MALÅ Unshielded Antennas are operated with MALÅ ProEx¹ control unit in different operating modes and for different applications. Today, MALÅ Geoscience offers different unshielded antennas, each with different features;

25MHz

The MALÅ Unshielded 25MHz Antennas are suitable for investigations requiring deep penetration. Antenna elements are detachable for easy transportation.

Dimensions : 406 x 20 x 7 cm - Weight: 3.85 kg (each)

Applications : Geological and stratigraphical surveys in open terrain.



50MHz

The MALÅ Unshielded 50MHz Antennas are suitable for investigations that require medium to deep depth penetration. They are lightweight and are suitable for one-person operation. Antenna elements are detachable for easy transportation.

Dimensions : 206 x 20 x 7 cm – Weight: 2.65 kg (each)

Applications : Geological and geotechnical applications.



100MHz

The MALÅ Unshielded 100MHz Antenna is the most popular in this range and is suitable for a wide range of applications that require medium depth penetration with reasonable resolution.

Dimensions : 104 x 16 x 4 cm – Weight: 1.10 kg (each)

Applications : River and lake bottom mapping, landfill studies, karst, deep pipe and bedrock detection.



200 MHz

The MALÅ Unshielded 200MHz Antennas are suitable for investigations that require mid-range penetration depth with good resolution. The compactness of the antenna facilitates surveys in more vegetated terrain.

Dimensions : 54 x 16 x 4 cm – Weight: 0.55 kg (each)

Applications : Utility detection, bedrock and cavity detection.



Accessories

A number of accessories are available for the MALÅ Unshielded Antennas, including :

- Soft-sledge for long profiles
- Options for distance measurement and trace triggering
- Fiber optic cables are available in several lengths

¹Requires MALÅ Unshielded Antenna Electronics (22-001266).

See our webpage for latest information

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