

Man-Portable HF Directional Antenna

1.5 – 30 MHz

Product Code: TW-A0004

VERSION: 1.2

SPECIFICATIONS:

| | |
|---|--|
| Electrical: DF | |
| Frequency range | 1.5 – 30 MHz |
| Polarisation | Vertical |
| Nominal input impedance | 50 Ω |
| VSWR | < 2.5:1 |
| Gain | See graph |
| Power handling | 2.5 kW average, 4 kW PEP |
| Mechanical: | |
| Dimensions (deployed) | 100 m x 2 m x 10 m high |
| Dimensions (packed) | < 450 mm x 450 mm x 1750 mm |
| Mass (antenna) | < 15 kg (excludes packaging, and mast) |
| Total mass (packed) | < 60 kg |
| Environmental: designed to meet the following specifications | |
| Wind survival | 160 km/h (without ice) |
| Temperature range | -30 °C - +70 °C |
| Water resistance | IP 66 |
| Vibration and shock | MIL-STD-810F |

PRODUCT DESCRIPTION:

The TW-A0004 is a man-portable tactical HF directional antenna system designed for rapid deployment in the field. It is ideal for high-power and long-range HF communications.

The antenna system consists of a multi-wire travelling-wave antenna that gives good directivity throughout the frequency range.

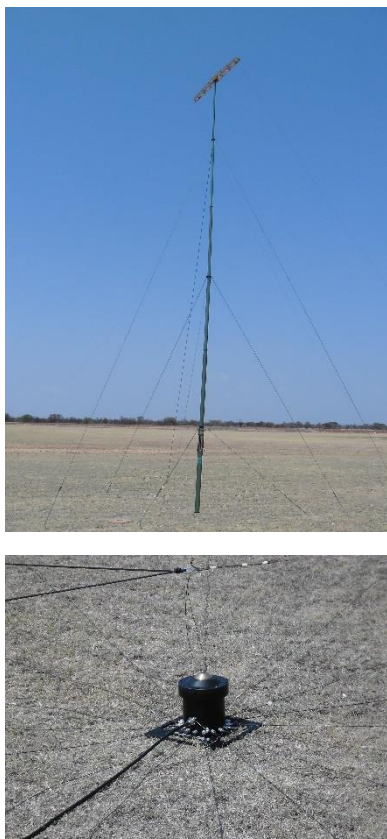
The TW-A0004 can be connected directly to 50 ohm transmitters without the need for an antenna matching unit. The VSWR is below 2.5:1 over the entire frequency range from 1.5 to 30 MHz and the antenna is rated for a transmitter power of 2.5 kW continuous (4 kW PEP). The TW-A0004 can be deployed by two persons in less than 60 minutes including the mast.

PRODUCT FEATURES:

- Man-portable HF antenna
- Significant directive gain
- Low VSWR across a wideband

APPLICATION AREAS:

- Portable communication
- Long range HF transmission
- Any HF application



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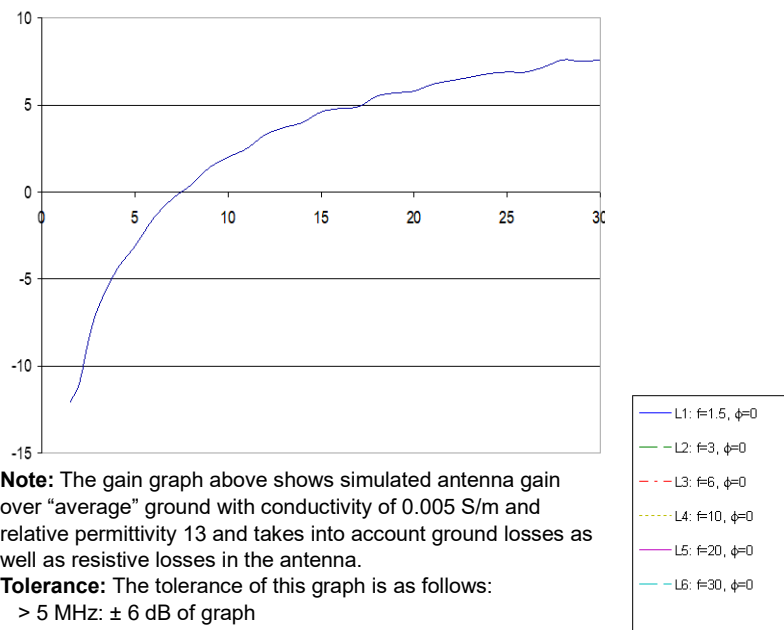
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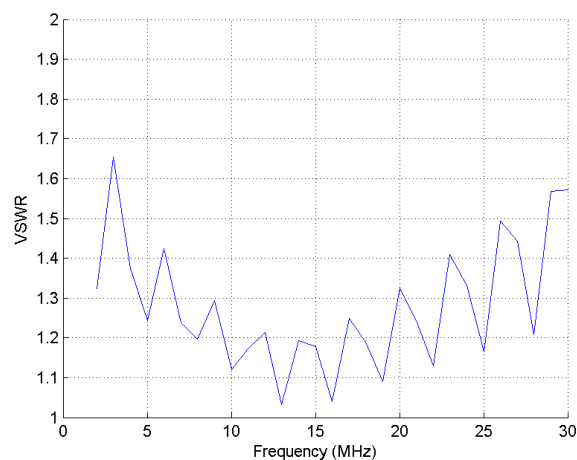
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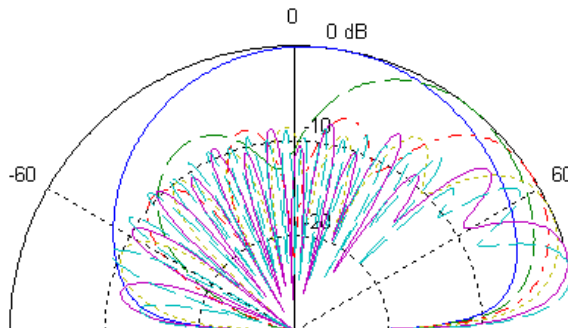
GAIN:



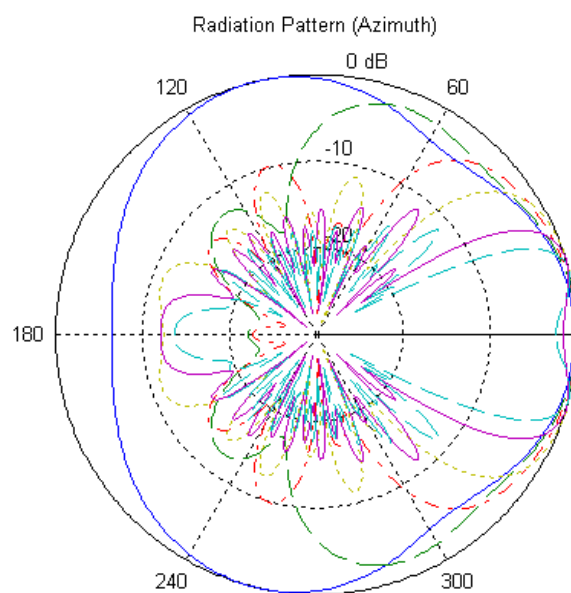
VSWR:



ELEVATION PATTERNS:



AZIMUTH PATTERNS:



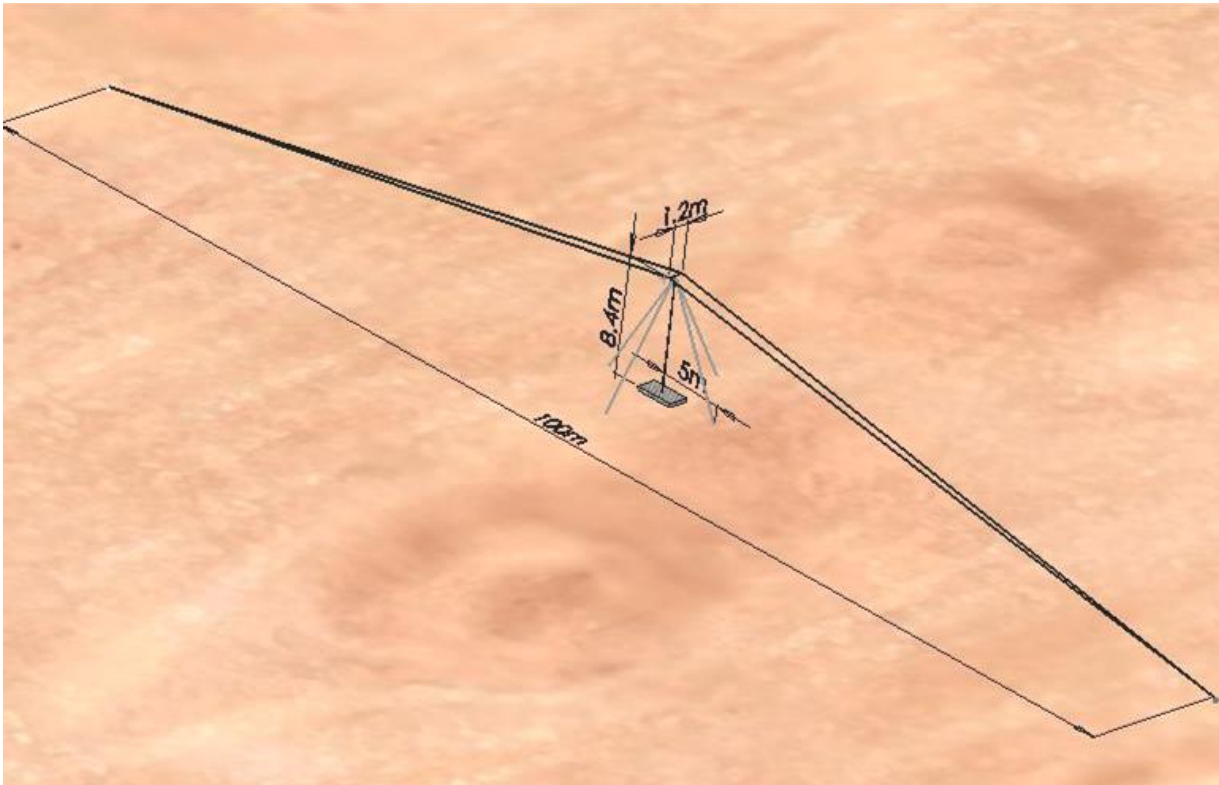
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PRODUCT LAYOUT:



The dimensions of the antenna can be seen above.

PACKED ANTENNA:



The antenna cable is rolled onto the supplied drum for storage.

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