

# Man-Portable HF Directional Antenna

1.5 – 30 MHz

Product Code: TW-A0004

VERSION: 1.2



## SPECIFICATIONS:

<b>Electrical: DF</b>	
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
<b>Mechanical:</b>	
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
<b>Environmental: designed to meet the following specifications</b>	
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

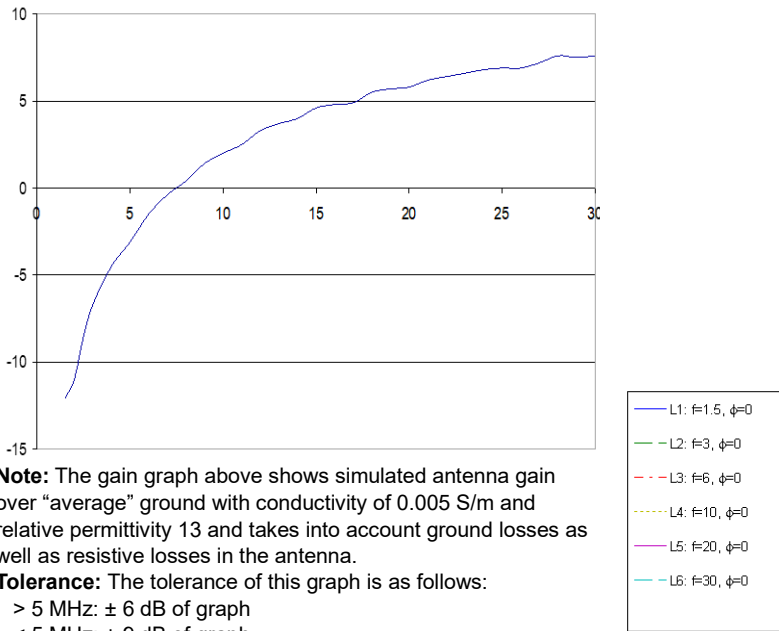
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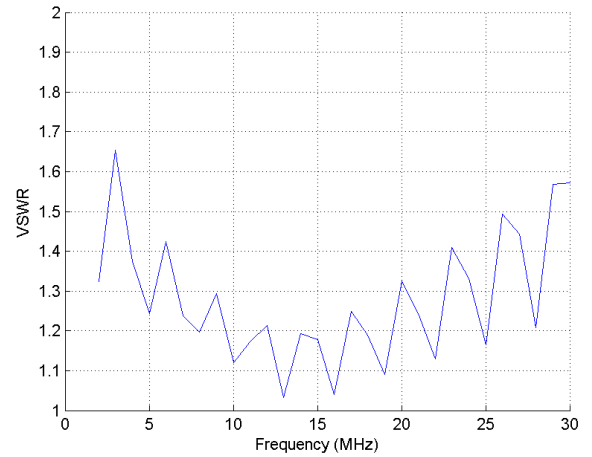
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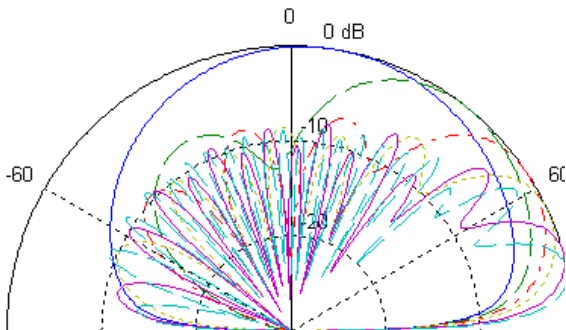
## GAIN:



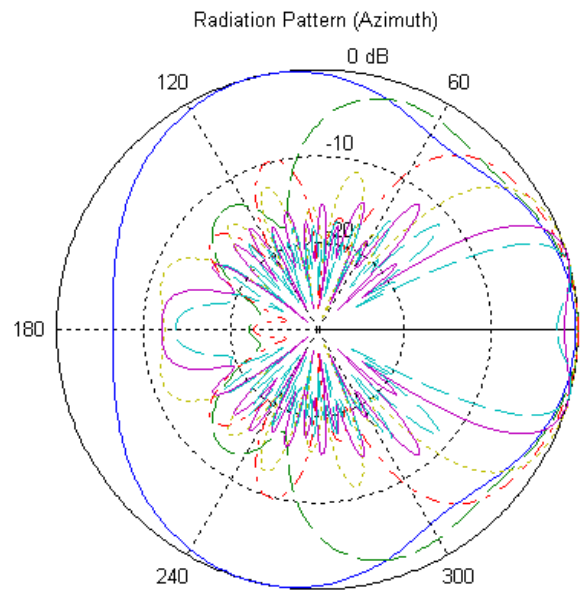
## VSWR:



## ELEVATION PATTERNS:



## AZIMUTH PATTERNS:



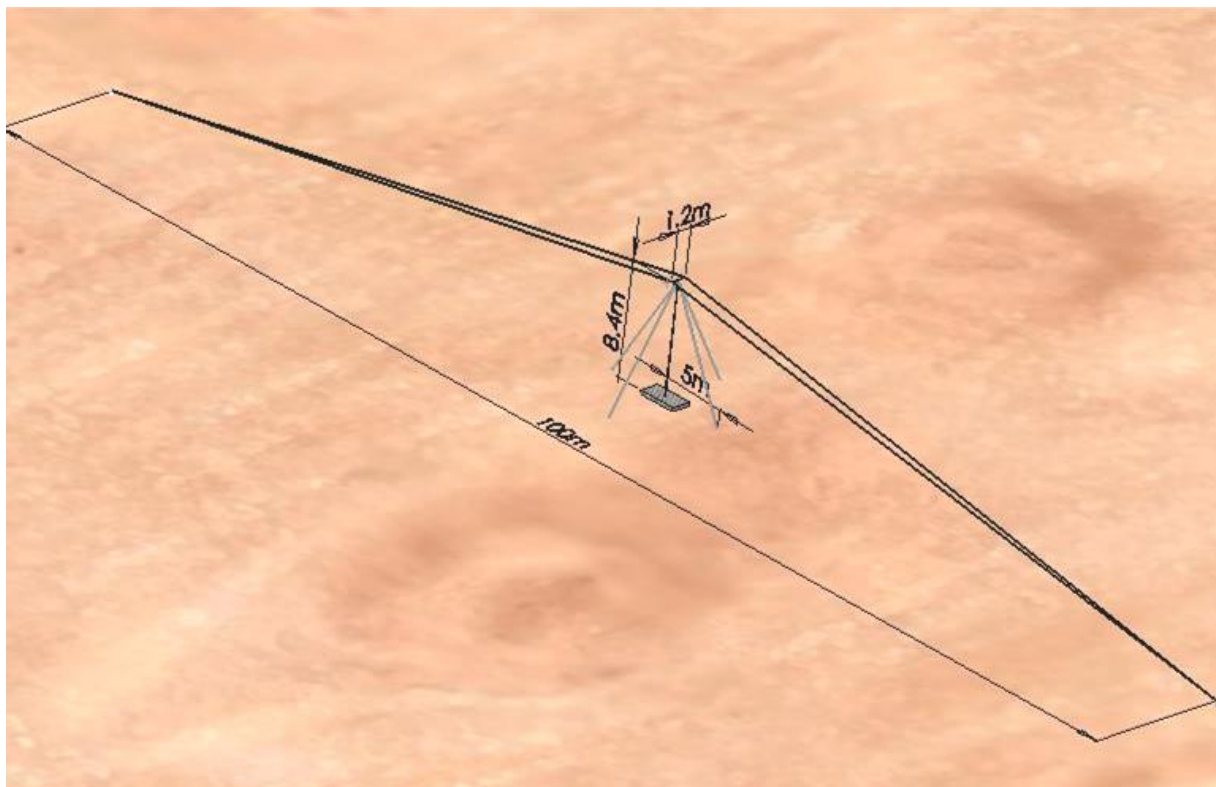
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## PRODUCT LAYOUT:



The dimensions of the antenna can be seen above.

## PACKED ANTENNA:



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