

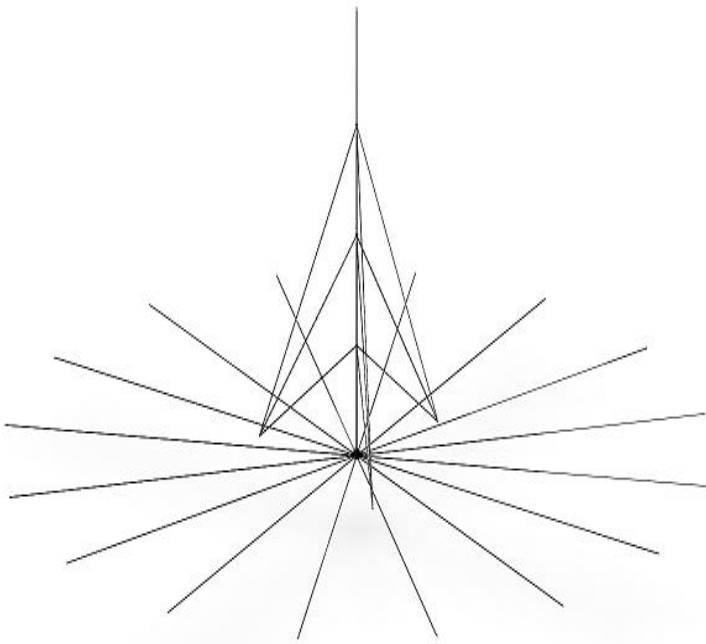
# Tactical HF Active Monopole

9 kHz – 30 MHz

Product Code: MONO-A0084

## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	9 kHz – 30 MHz
Polarisation	Vertical
Nominal input impedance	50 Ω
Connectors	N-type female
Sensitivity in 1 Hz bandwidth	Better than 1 μV/m
OP1	24 dBm
OIP2	43 dBm
OIP3	33 dBm
Input voltage	12.5 – 15.5 VDC
DC input current (max)	400 mA
<b>Mechanical:</b>	
Length	4.5 m
Total mass	7 kg excluding packaging
Base dimensions	300 mm x 300 mm
Groundplane diameter	20000 mm
Mounting method	Free-standing on the ground with guy ropes; Can be bolted to a concrete plinth
<b>Environmental: designed to meet the following specifications</b>	
Wind survival	120 km/h (without ice)
Water ingress rating	IP65
Temperature	-40 °C to +70 °C



## PRODUCT DESCRIPTION:

The HF active whip monopole antenna is designed for deployment on open ground or permanent installation and includes a deployable groundplane. The antennas' radiation pattern is suitable for medium to long range HF monitoring. This antenna uses an operational amplifier as the active component of the antenna which operates from 9 kHz to 30 MHz.

The product features a passive bypass mode which comes into operation when the antenna is powered down. In this mode, the active matching and amplification circuitry is bypassed and the antenna operates as a completely passive receiving antenna.

## PRODUCT FEATURES:

- 9 kHz to 30 MHz frequency range
- Rugged
- Quick deployment time
- Self-contained groundplane
- Glass fibre insulated radiator
- Lightning induced surge and static protection
- Passive bypass mode option

## APPLICATIONS:

- HF monitoring

## RELATED PRODUCTS:

- MONO-A0071: 2.9 m version of this antenna
- MONO-A0076: Passive, 9 m version of this antenna
- Optional extra: MISC-A0022 inline DC bias supply

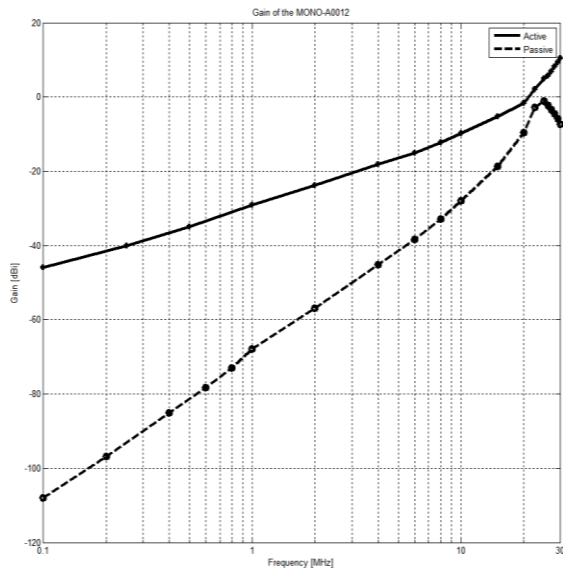
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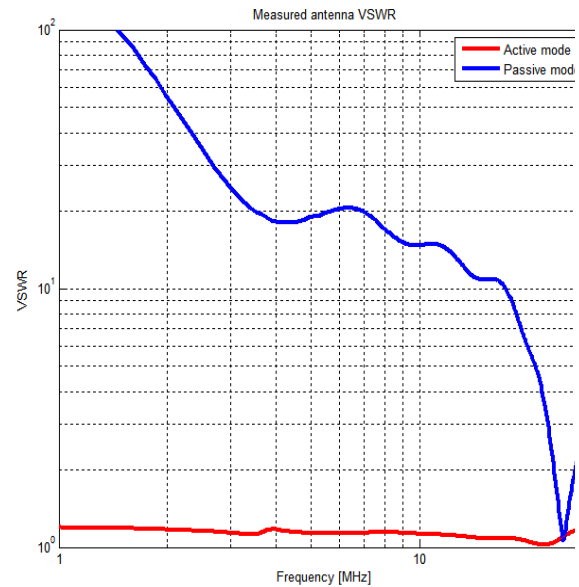
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VERSION: 1.0

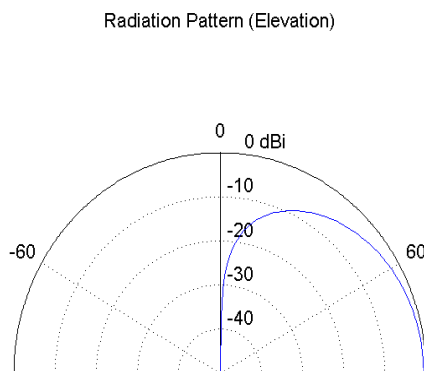
## GAIN:



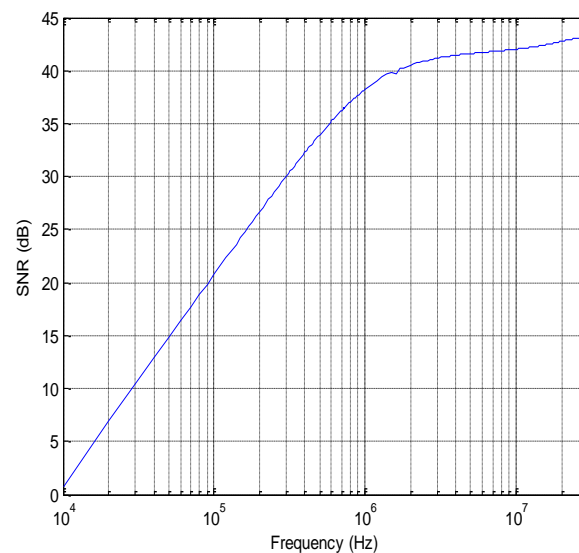
## VSWR:



## E-PLANE PATTERN:



## SNR of 1 $\mu\text{V/m}$ Signal in 1 Hz:



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Cyntony Corporation  
195 Follen Road  
Lexington, Massachusetts  
sales@cyntony.com  
781-430-0675



GAIN THE ADVANTAGE