Direction Finding & Monitoring Antenna

20 – 410 MHz

VERSION: 1.2

Product Code: DF-A0122

SPECIFICATIONS:

Electrical:	
Frequency range	20 – 410 MHz
Nominal input impedance	50 Ω
Antenna type	5-element interferometer
Polarisation	Vertical
Output cables	RG 400 cables (qty 5)
Connectors	TNC male
Mechanical:	
Antenna weight	< 30 kg
Assembled height	< 1.4 m
Assembled diameter	< 2.2 m
Packaging length	1.4 m
Environmental: designed to meet the following specifications	
Cross-sectional wind load area	0.75 m²
Maximum wind speed	150 km/h (without ice)

ELECTRICAL FEATURES:

- Full-size DF
- Wideband DF and monitoring
- 5-element interferometer

MECHANICAL FEATURES:

- Robust construction
- Waterproof
- Quick assembly

RELATED PRODUCTS:

- **DF-A0094** (Single-band direction finding antenna with larger aperture)
- **DF-A0038** (direction finding antenna with integrated monitoring system)
- **OMNI-A0112** (active monitoring antenna)

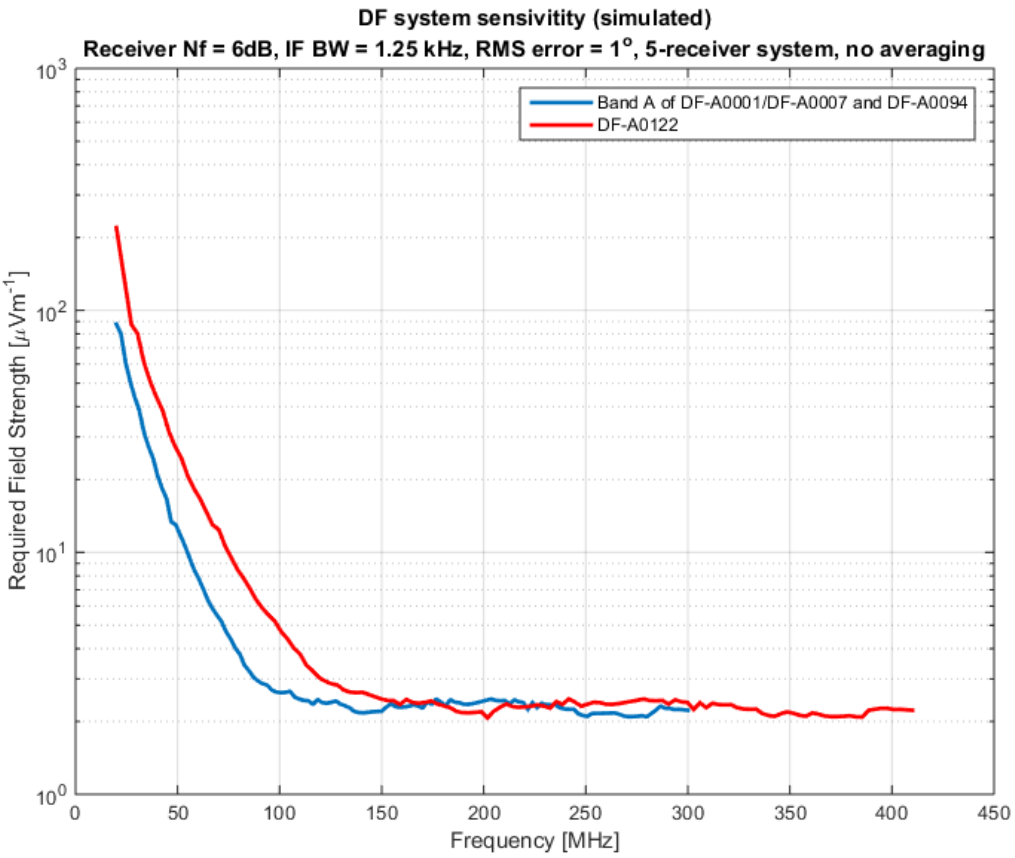
PRODUCT DESCRIPTION:

This direction finding and monitoring antenna covers a frequency range of 20 MHz to 410 MHz. Shipped in a compact storage and transport box, the antenna can be assembled by one person in 20 minutes, without special tools.

The full-size elements give excellent DF sensitivity. Ultimate angular resolution for strong signals is well under 1º for most of the frequency range. Dipole elements provide good cross-polarisation rejection, and fair performance for signals arriving from up to 15º above or below the horizon.

This DF antenna is designed to be used with a 5-channel phase-sensitive receiver, and correlative algorithm. Calibration of the antenna can be performed on request.

DF sensitivity graph:



The graph illustrates the direction finding sensitivity of a typical system measured under specific electrical conditions.

The graph shows the minimum signal required to obtain a bearing fluctuation of less than 1° for the frequency range 20 to 410 MHz.