








Wire V/UHF-DF Portable Antenna, 30-3000 MHz

Gen2 Tactical Direction Finding and Geolocation

When attached to a teamSENTINEL V/UHF DF-enabled sensor, the Espy Gen2 Wire V/UHF-DF antenna can be configured to support both Angle of Arrival direction finding (AoA DF) up to 3 GHz, as well as, Theater Net-centric Geolocation (TNG) of signals up to 6 GHz.

DF is covered by three antenna bands. The Gen2 design adds an active omni directional antenna, extending the monitoring and TNG capability up to 6 GHz.

When folded for transport, this lightweight antenna is small enough to fit inside a compact transit case for easy handling. Deployment and setup of the antenna can usually be accomplished in less than 30 minutes.

-  **AoA DF coverage from 30 to 3,000 MHz Monitoring and TNG from 30 to 6,000 MHz**
-  **Multiple simultaneous receivers can tune seamlessly across bands**
-  **Full-band teamSENTINEL DF correlative interferometer**
-  **Deploys easily and quickly**
-  **Lightweight and portable**

SYSTEM SPECIFICATIONS

ELECTRICAL

Frequency Range (MHz)	30-6,000 Monitoring 30-3,000 DF
Feed Power Handling	0.5 W (receive only)
Polarization	Vertical

DF

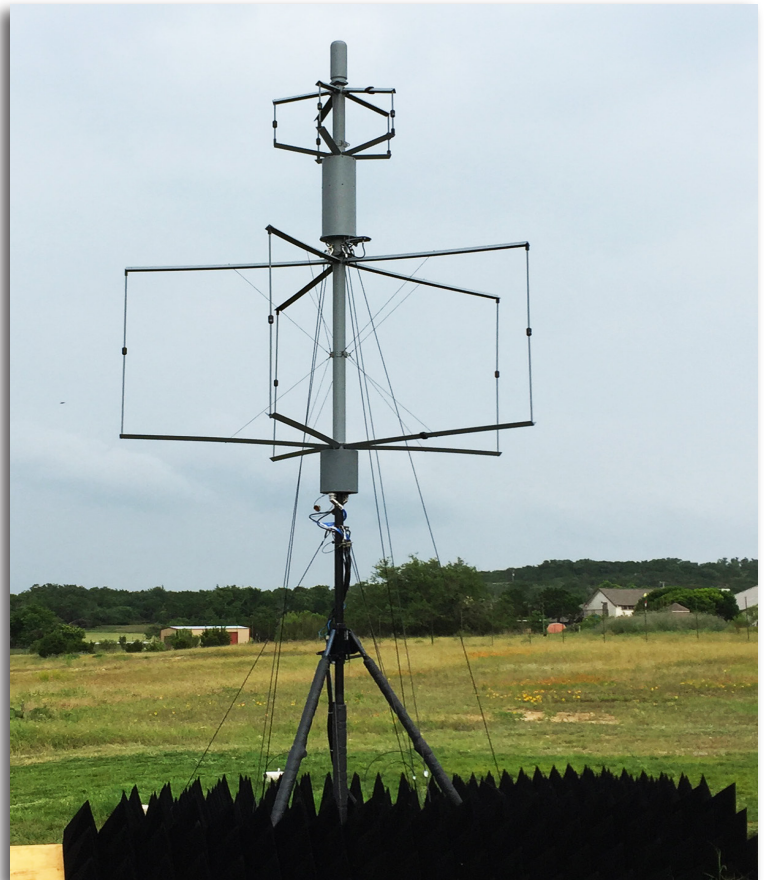
DF type	Correlative interferometer
Frequency Bands (MHz)	A: 30-300 B: 300-1,000 C: 1,000-3,000
DF accuracy in azimuth (RMS)	A: 3° B: 2° C: 2°

MONITORING

Frequency band (MHz)	30-6,000
Monitoring antenna	Active Omni

ANTENNA ELEMENT CONFIGURATION

DF Frequency Band	Dipole Length (in / cm)	Array Diameter (in / cm)
A	52 / 132.08	102.3 / 259.84
B	14.3 / 36.32	29.5 / 74.93
D	4.7 / 11.94	9.9 / 25.15



Ships ready for mobile deployment with a transit case, set of guy wires and tripod.



teamSENTINEL®

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SPECIFICATIONS

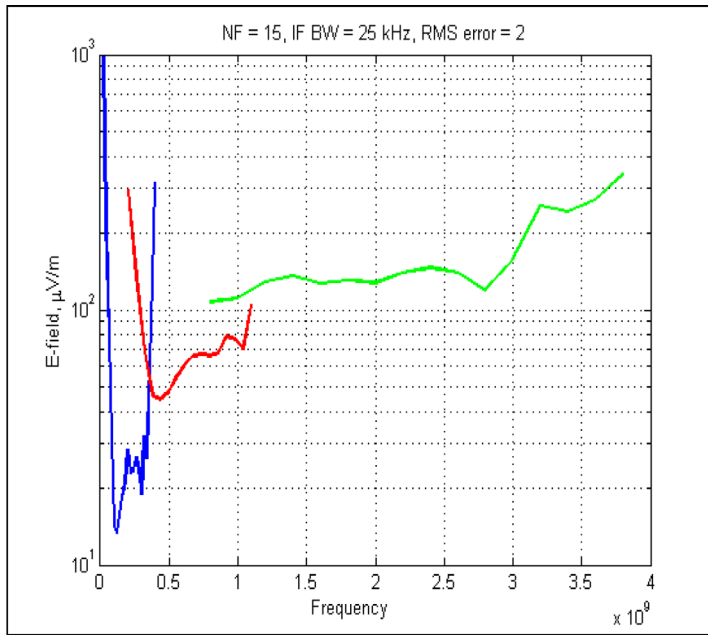
Mast diameter	2.0 in (5.08 cm)
Height from ground to cable connections	7.5 ft (2.286 m)
Height from ground to top	18.1 ft (5.517 m)
Weight	50 lb (22.68 kg)
Pack size	72.75 x 22 x 11.25 in 184.79 x 55.88 x 28.58 cm

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The Espy Corporation
"Helping discover the way"

DF SENSITIVITY



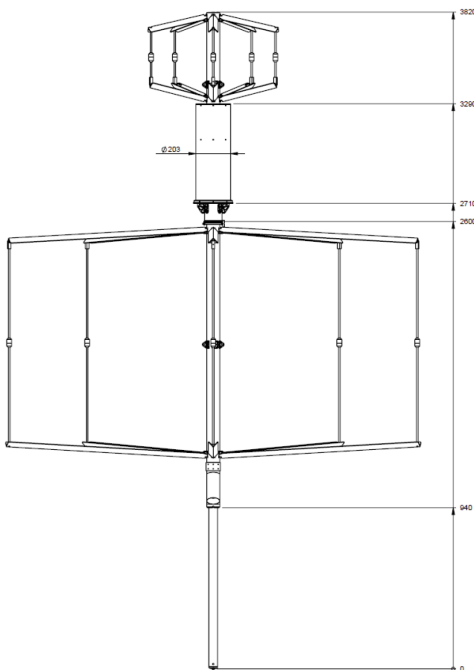
The adjacent graph illustrates the direction finding sensitivity of a typical teamSENTINEL Gen2 Wire antenna system. The sensitivity for an IF bandwidth of 25 kHz and without averaging. The graph depicts the minimum signal required to obtain a bearing within 2° RMS.

Related Products:

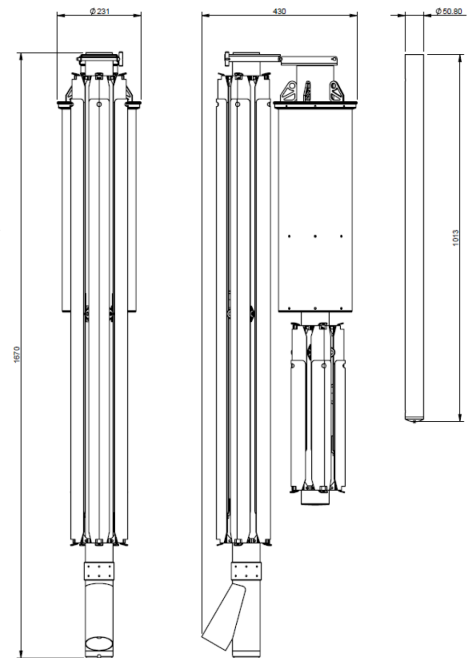
- RFC-DC2U7 - V/UHF-DF Ready teamSENTINEL for Wire3.0 Gen2 Antenna Systems



DEPLOYED DIMENSIONS (cm)



STOWED DIMENSIONS (cm)



Deployed and Stowed representations are not to scale with each other.

"es|py (e spi', i-) **vt. -| pied', -| py'ing** to catch sight of; make out; discover; detect; find"

- Merriam-Webster

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