

Entropix Sabre Antenna On-The-Body Direction-Finding and Geolocation Antenna Array

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Sabre Antenna with optional mount

The Sabre uses patented technology to provide AOA capability covering 30 - 2600 MHz¹. The 1.5" diameter mast provides an ultra-low visual profile and better accuracy than some larger DF antennas. The Sabre is designed for On-The-Body and On-The-Move operation. The Sabre weighs less than 3 lbs. and more closely resembles a communication antenna than a DF antenna.

The Sabre is available in multiple configurations with one to three output channels. The Sabre offers scalable functionality from situational awareness to full SIGINT level performance. The Sabre is integrated with Special Operations Forces (SOF) Tactical Communications (STC) NGHH providing situational awareness (SA) capability and JTWS Ground SIGINT Kit (GSK) providing single node On-The-Body AOA capability.

All relevant traditional Direction-Finding and Geolocation methods are supported including Angle-of-Arrival (AOA), Time-Difference-of-Arrival (TDOA), and Frequency-Difference-of-Arrival (FDOA). Sabre also supports the newer Geolocation by Spectral Analysis of Transforms (GSAT) algorithm.



Sabre Antenna shown deployed and stowed

The Sabre Antenna is offered with a hinge mount that enables the antenna to be folded over when not in use.



Sabre Antenna (left) vs. JTWS GSK stock Antenna (right)

Sabre Antenna Specifications:

- *Frequency Range:* 30 to 2600 MHz¹
- *Single base structure* is provided with two masts
 - *Low Band Mast:* 30 – 108 MHz
 - *High Band Mast:* 100 – 2600 MHz
- *Base Size:* 3.75"W x 7.5"H x 1.25"D
- *Low Band Mast Size:* 1.5"OD x 23"H
- *High Band Mast Size:* 1.5"OD x 17"H
- *Weight:* < 3 lbs.
- *Power Input Range:* 5 VDC
- *Temperature range:* -20°C to +70°C
- Designed to meet Mil-Std-810G
- RS-232 data interface
- Supports all traditional methods: AOA, TDOA, and FDOA. Supports newer Geolocation by Spectral Analysis of Transforms (GSAT)² algorithm

Features:

- Single Node AOA: On-The-Body operation
- Single Node AOA: fixed site, vehicle, maritime and airborne platforms
- Sabre can be used for Listening and DF operations
- Available with 1, 2 or 3 output channels
- Integrated with STC NGHH providing SA capability
- Integrated with JTWS GSK SIGINT System
- Integrated Electronic Compass
- Offered with hinged mount