



The WASP-3X COMINT system represents the latest in signals collection, intercept and direction finding from an airborne platform. The system architecture stresses modularity, making extensive use of commercial-off-the-shelf (COTS) equipment, allowing future modular technology refresh and insertion without requiring total system replacement.



The Basic WASP-3X System Consists of:

- Omni Acquisition Antenna
- Adaptive Beamforming Array/RFD
- HF and V/UHF Receivers
- COMINT Processor
- Rugged laptop or Rack Mounted Workstation

Applications

- Maritime Reconnaissance
- Airborne Surveillance
- Peacetime and Wartime Environments
- Threat Warning Support
- Electronic Order of Battle
- Border Defense
- Counter Narcotic
- Search and Rescue
- Large Aircraft (e.g., C-130)
- Small Aircraft (e.g., King Air)

Features

- Offers HF through V/UHF collection, DF, geolocation and analysis
- Personal Communication Systems (PCS) collection, DF, geolocation and analysis
- Real time displays of collected information
- Table-driven tasking architecture allows tasking changes without SW reload
- User-friendly interfaces
- Scalable – supporting multiple receiver channels, depending on aircraft configuration

Advantages

- Extensive use of COTS equipment
- Uses Linux operating system
- Highly tailorable using PMC based interfaces and VME plug-in capabilities
- Highly reliable, easy maintenance, and fully supported with training material and operator's manual





System Specification

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|-------------------------|---|
| Frequency Coverage | 2 MHz – 3 GHz |
| Azimuth Coverage | 360° |
| Azimuth Measurement | True or Relative |
| DF Operation | 2 MHz – 3 GHz |
| Geolocation Operation | Lines of Bearing (LOB) based geolocation |
| Antenna Systems | Conventional and adaptive beamforming arrays |
| Receiver Types | HF through V/UHF receivers (tuning speed 1100 μ s) |
| DF Measurement Accuracy | 2° RMS |
| Signal Classification | AM, FM, and CW modulation, PCS communications, and Agile radios |
| Operating System | Linux |
| Programming Language | Java, C++ |
| External Control/Data | Ethernet, RS-422 |
| Internal Control | Ethernet, RS-422 |
| Platform Location | Commercial GPS |
| Signal Types | AM, FM, CW, PCS, Agile |
| Maintenance | Built-In Self Test |
| Chassis Enclosure | 3/4 ATR chassis |
| Dimensions (H x W x D) | 10.63 in. x 7.5 in. x 19.52 in. (27 cm x 19 cm x 50 cm) |
| Weight | 39 lbs. (16 kg) |
| Temperature | 0 – 50 °C |
| Humidity | 5 – 85% non condensing |
| Altitude | 0 to 10,000 ft. |
| Power | 110/220 VAC, 50-400 Hz (28 VDC optional) |
| Mounting | Standard 19" rack enclosure |

All specifications are subject to change without notice.



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