

SENSOR CAPABILITIES

HF Band Detection
COMINT + EO/IR + ANTI-JAM GPS



SCHIEBEL
CAMCOPTER® S-100

FACTSHEET

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High Frequency (HF) Band communication plays an increasingly significant role in military, para-military and civilian applications. Current HF DF COMINT systems are very cumbersome and require very large antennas which typically render them unpractical for compact and mobile applications. This revolutionary compact airborne system provides instantaneous and precise location of HF transmitters.

High Frequency Communication Intelligence (HF COMINT) systems are perfect for the harsh electromagnetic environment characterizing the HF band. The system tags and identifies signal characteristics in a multi-dimensional domain, composed of signal identifiers such as power, center frequency, modulation, geo-location, polarization and more. These techniques enable swift labeling of the received signals, identification and reliable Electronic Order of Battle (EOB) generation. The unique front-end technology allows installation on board compact airborne platforms, such as the S-100.

The key features are:

- Small array dimensions with high accuracy 3D direction finding
- Instantaneous azimuth and elevation measurements
- Fast and accurate waveform classification and identification
- Instantaneous geo-location utilizing Digital Terrain Model (DTM)
- Signal demodulation for voice and text data production
- Polarization estimation
- Rapid spectrum exploration, analysis and detection of advanced HF band communication signals
- Accuracies - similar to V/UHF systems
- Real time and off-line analysis
- Can share V/UHF COMINT DF LRU installation

