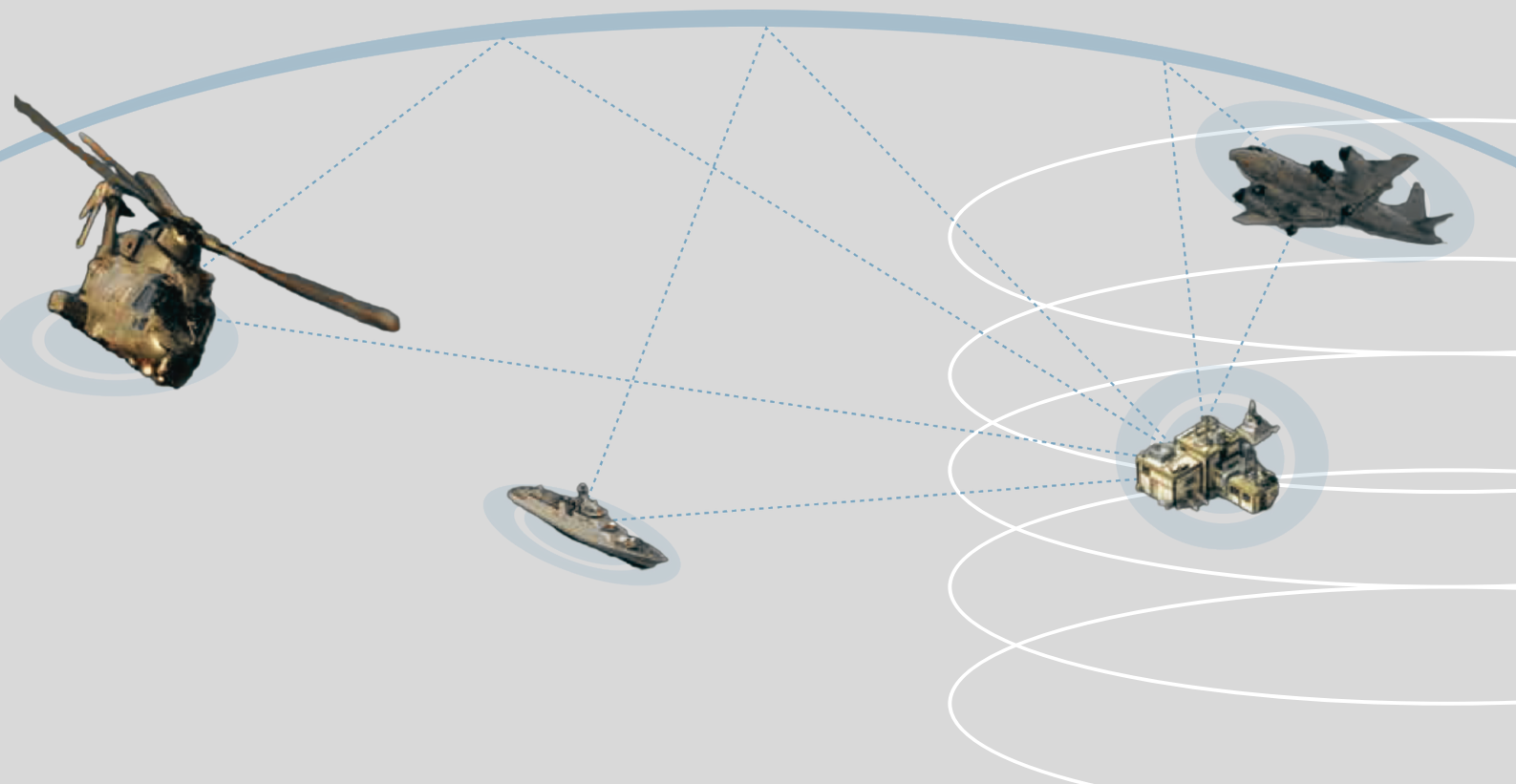




HF IDENTIFIER

Strategic Direction-Finding Solution





High-Frequency (HF) Direction Finding (DF)

TACTICAL AND STRATEGIC DIRECTION-FINDING SOLUTIONS IN THE SPECTRUM BATTLESPACE FOR SECURITY AGENCIES

In the domain of Electromagnetic Spectrum Operations (EMSO), High-Frequency (HF) Direction Finding (DF) holds a crucial position. The significance lies in spectrum scanning, acquiring signals, and transmitter localization across both short-range (ground wave) and long-range (skywave) frequencies. This capability plays a vital role in forming the Radio Frequency Common Operational Picture (COP) to strengthen the Electromagnetic Order of Battle.

While acknowledging the paramount significance of extracting credible communication intelligence, DCC presents avant High-Frequency Direction Finding (HFDF) solutions, meticulously crafted to meet the demands of sophisticated communication and intelligence gathering. Elevate your capabilities through the integration of DCC's refined and proprietary technology.

Key Features

PRECISION AND ACCURACY

- Our HFDF systems provide unparalleled accuracy in identifying and locating radio frequency signals.
- Supports Short-Range and Long-Range HF Signals.

WIDE FREQUENCY RANGE

- DCC's technology covers a broad spectrum of frequencies, ensuring comprehensive signal coverage (300KHz – 6GHz). Capable of supporting LF, HF, UHF, & VHF.
- Stay ahead of evolving communication landscapes with our versatile HFDF systems.

SIGNAL INTERCEPTOR CAPABILITIES

- Demodulation/Decoding of 100+ schemes (no decrypt).
- Transmitter characteristics identification and fingerprinting.

REAL-TIME ANALYSIS

- Experience real-time data analysis for swift decision-making.
- Single and Multi-Target Geo-Localization of HF Signals of Interest (SOI).

USER-FRIENDLY INTERFACE

- Our intuitive interface makes operation seamless for both novice and experienced users.
- Effortlessly manage and interpret data with our user-friendly design.

ROBUST SOLUTION

- Capable of spotting close proximity targets (not far from each other).
- Can classify multi-emitter of same frequencies.

Applications

MILITARY OPERATIONS

- Enhance military intelligence gathering with DCC's HFDF solutions.
- Gain a strategic advantage by precisely locating communication sources.

SECURITY AND SURVEILLANCE

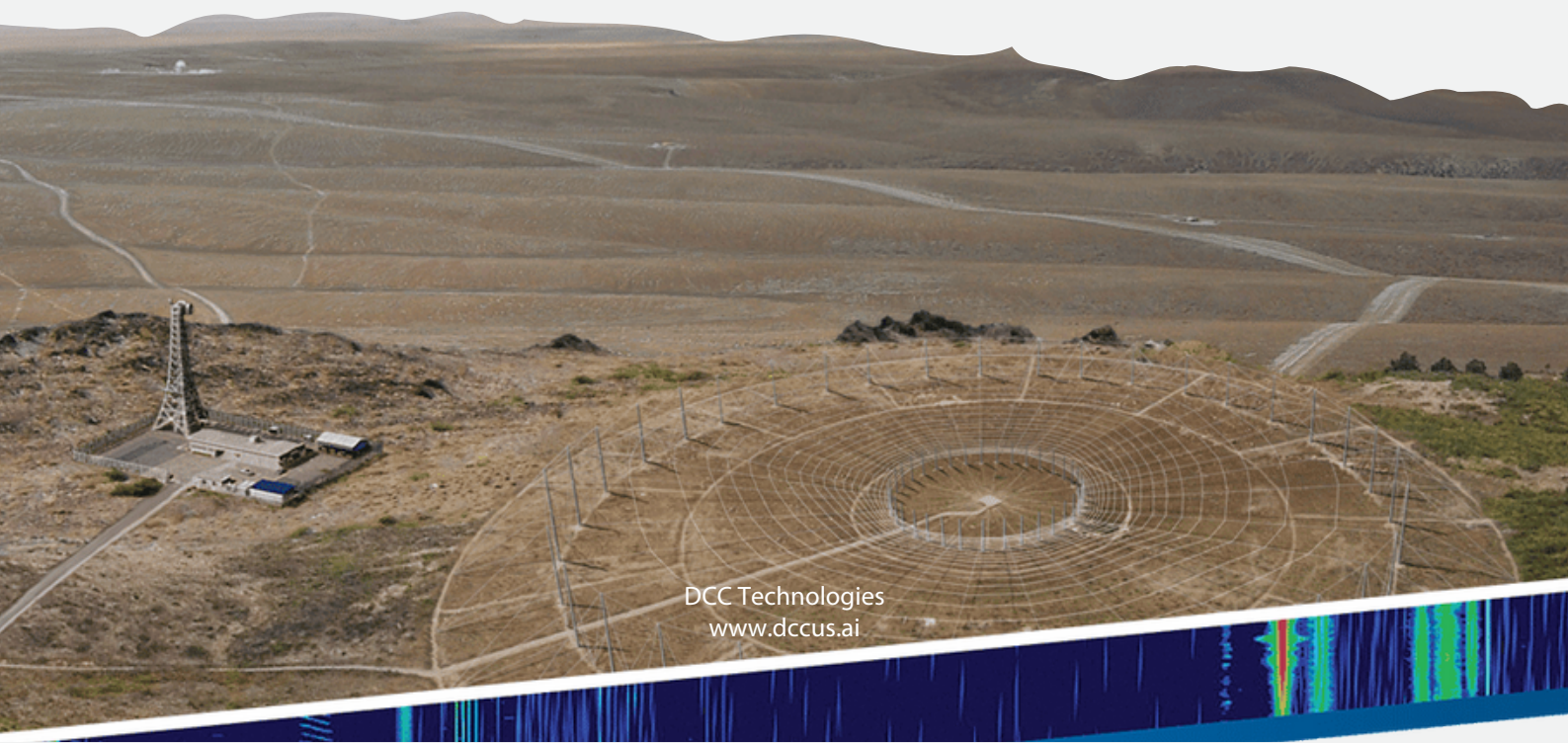
- Gather preemptive surveillance data.
- Identify and monitor potential threats with confidence.

SEARCH AND RESCUE

- Improve search and rescue operations with accurate signal localization.
- Save time and resources in critical situations.

CUSTOM SOLUTIONS

- Tailor our HFDF systems to meet your specific operational requirements.
- Automate surveillance tasks as per your strategic requirements.



Technical Specification for HF Identifier

Frequency Range (DCC Capabilities)	300KHz – 6GHz (with distributed system) Can be increased if SDRs are provided for greater than 6GHz
Accuracy	< 1° RMS (As per existing client's feedback)
Tolerance	< 1Hz
DF Technique	Proprietary (4 Years R&D involved)
DF Sampling (Speed)	Can perform on N Samples (50 – 512 in ideal scenarios)
Antenna	Irregular Circular Array of Raised Monopole antennas with ground cage. HF: Radius ~ 22.50m UHF: Radius ~ 20cm VHF: Radius ~ 45-50cm
Spectrum Analysis	Wideband Waterfall Spectrum monitoring console
Single Site Localization (SSL)	Supports Single Site Location (SSL) and Multisite Triangulation
Calibration	On demand and schedule DF receiver calibration
Operator Console	Customizable as per user requirements • Band Monitoring Console • DF Console • Map View Console • Interceptor Console • Recording Console
Operation Hierarchy	1. Administrator 2. Supervisor 3. Operator
Video Wall Integration	Implementation Included

Operating Experience of System (Deployed for clients)

HF

5+

YEARS

UHF

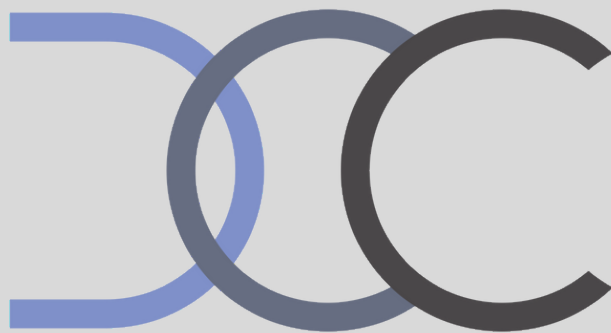
3+

YEARS

VHF

4+

YEARS



DCC Technologies

Virginia, United States

Email: info@dccus.ai Phone: +1 703 488 8707

www.dccus.ai