

KER-314 EW Platform

*Advanced
multi-function,
multiband,
full spectrum &
remote-able
(IP-based)*

- ⇒ Monitor
- ⇒ Collect
- ⇒ Locate
- ⇒ Attack

KER-314 Electronic Warfare Platform

Monitor. Collect. Locate. Attack.

The KER-314 Tactical EW Platform is a robust, remote-able, multifunction, multiband, full spectrum, wideband collection platform (via BGAN or cellular connectivity). The KER-314 also contains remote full spectrum signal direction finding (DF), advanced 2000 watt commercial FM stereo transmitter and HF/VHF/UHF electronic attack (EA) capabilities. The system can be easily coupled with cellular monitoring, tagging, tracking and attack capabilities.

The KER-314 configuration allows the operator to safely collect/DF/transmit remotely against hostile sources in either recorded or near real-time modes. The KER-314 utilizes a secure, encrypted onboard PC core to host an organic RF identification, collection, recording, transmit and exfiltration capability. Various onboard software suites allow for pre-programmed execution of myriad retrieval and exfiltration (transfer) schedules, as well as real-time voice, data, and visual remote monitoring.

Scalable, Multi-Mission Capability

Direction Finding (DF) System:

Remote access with a triangulation and mapping option, Client/Server option and a wideband receiver frequency range: 9 kHz to 1300 MHz.

FM Transmitter

Commercially rated 2000 watt fully software defined radio (SDR) with reliable, low power consumption and the highest efficiency rating in the industry; complete with an integrated SDR control interface.

Wideband surveillance receiver

Digital signal processor (DSP-based) SDR with direct digital synthesis (DDS) front end. Covers a wide frequency range: 9 kHz to 1800 MHz (optional to 8599 MHz) with multiple modes:



KER-314 EW Platform Specifications*

FM Transmitter

Frequency Coverage	87.5-108 MHz
Output Nominal Power	2000 watts (adjustable)
Frequency Stability	+/-0, 1dB
Tuning Resolution	1 Hz
Intermodulation distortion	<0.05% Measured with two of tones 1KHz & 1.3KHz, ratio 1:1 at 100% modulation

Direction Finding

RX Frequency Coverage	9 kHz-1800 MHz, extendable to 3500 MHz
DF Frequency Coverage	100-1000MHz, optional 2-100 & 1000-3500 MHz
Accuracy	+/- 2 degrees
Modes	AM, AMS, LSB, USB, DSB, ISB, CW, FM-N, FM-W

Dimensions

Size & Weight	Scalable based on options and mission requirements
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*Specifications subject to upgrades and changes without notice

Receiver

Frequency Coverage	9 KHz-8599 MHz
Bandwidth	50-15000 Hz
RSSI Sensitivity	-137 dBm
Phase Noise	-148 dBc/Hz @ 100 kHz
Modes	AM, AMS, LSB, USB, DSB, ISB, CW, FM

Electronic Attack

Frequency Coverage	1.6-512 MHz
Output Power	125 watts (1.6-30 MHz), 50 watts (20-512 MHz)
Waveforms	AM, FM, USB, LSB, FSK, MSK, BPSK, QPSK, PSK, QAM
Bandwidth	300-2550/3000 Hz (selectable)
Harmonic Suppression	>50 dB

Environmentals

Humidity	95% RH at +40° C (+104° F)
Temperature	-25° C (-13° F) to +55° C (+131° F) operating
Water and Dust-proofing	IP-54 as standard, dust and spray proof in all directions



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