GENERAL DESCRIPTION

VRB-12-141 /A(V/UHF) is designed for automatic and manual detection and analysis of military and non-military radio communications in the frequency range of 30MHz to 3000MHz
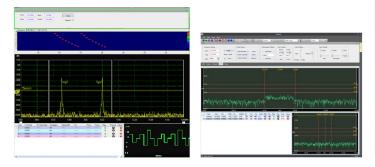
Different types of signals are supported like:

- Fix frequency (analog and digital – narrow and wide band)
- Burst
- FH (frequency hopping spread spectrum)
- TH/FH (frequency hopping spread spectrum/ time hopping spread spectrum)
- DSSS (direct sequence spread spectrum)

Parameter estimation, demodulation and extraction of voice or bit stream are capabilities of this system. Protocol analysis software can be optionally added to the system to decode protocols. The system can be installed on stationary or tactical platforms and can be used with other EW equipment in battlefield as a part of command and control network.

FEATURES

- Monitoring, interception, recording and analysis of wide and narrow-band signals
- Selectable scanning bandwidths
- Waterfall and spectrum displays
- Automatic analog and digital modulation recognition (AMR)
- Signal parameter estimation (center frequency, bandwidth, SNR, modulation type, bit rate, symbol rate) for fix frequency signal and demodulation and extraction of voice or bit stream
- Signal parameter estimation (center frequency, bandwidth, SNR, modulation type, hop rate, hop duration) for FH and burst signal and demodulation and extraction of voice
- Signal parameter estimation (center frequency, bandwidth, SNR, modulation type, chip rate, bit rate, symbol rate, code length) for DSSS signal and demodulation and extraction of bit stream
- Detection, classification and decoding of communication protocols (optional)
- Capability of using offline analysis tools for unknown protocols (optional)
- Recognizing and discrimination of three frequency hopping signals
- Recording of demodulated signals
- Voice Operated Recording capability (VOR)
- IF recording (optional)
- Ability to control hand-off receivers
- Ability to dedicate hardware resources to any operator
- Spectrum activity record in data bank and report generation
- Capability of selecting different antennas
- Client-server architecture
- Self-test capability

RADAR AND OPTIC