SIGN4L

COMJAM

COMMUNICATION JAMMER

OMMUNICATION JAMMER AND RADIO MONITORING SYSTEM FOR FIXED-SITE

Communication Jammer for Fixed site or Mobile Electronic Warfare and Radio Monitoring systems where primary detection of narrow-band and spread-spectrum signals is countered by wide band Jamming Capabilities.

SPECIFICATIONS

KEY FEATURES

- Communication jammer of RF spectrum from 20MHz to 6GHz.
- Typical jamming ratio for single threats ⇢ 10:1
- Intuitive Command & Control software for effective operation

COMPONENTS

- COMJAM system mast with antennas and rotator
- Indoor equipment to be installed in 19" compliant rack

HARDWARE

RF Jamming Frequency	20MHz – 6GHz VHF BAND – 20MHz to 520MHz UHF BAND – 500MHz to 3 GHz SHF BAND – 3 GHz to 6 GHz
Total Output Power	Up to 3500W – dependent on final configuration
Antennas	3xTX and 3xRX antennas on two separate masts
Power Amplifier Distribution	VHF (20 - 500MHz) up to 2kW CW UHF (500 - 3000MHz) up to 1kW CW SHF (3000 - 6000MHz) up to 500W CW
Jammer Type	Active Jammer
Exciter instantaneous bandwidth	Up to 500MHz per band, (total 1.5GHz)
Exciter sweep time	≤ 1.8μ-sec
Jammer Total power control step size	2dB
Power Consumption (Peak)	≤ 30KW (excluding power for the cooling solution)
Connectivity to Command & Control	Ethernet interface
Rack size	Up to 60U with liquid cooling

* Tested with commercially available radios only.
*All specifications provided herein are indicative values and figures, and there may be reasonable deviation from the same.

SOFTWARE

Remote Control Unit (RCU)	C2 UI application
Exciter controller	Ability to activate/deactivate specific frequency bands. User interface allows for use to select target frequency and jammer bandwidth.
Jammer power mute per bands	GUI allows the user to mute specific bands before activation.
Jammer Power mute for all bands together	GUI allows the user to mute all bands instantaneously.
Safety measures	Alarm for temperature, voltage and current.
Health monitor	System status (Initializing, standby, transmitting, overvoltage, over current).
Selectable jamming modulations	GWN, CW, sweep, barrage, white noise

DEPENDENCIES

- Antennas must have clear line of sight to the jammed target.
- Additional sensors, like a radar or directional finder, is required to detect signal direction for accurate jamming
- Shelter or alternative platform not included
- Results based on single target jamming