

SIGN4L

SKYSHIELD TM



State of the art mobile counter UAS solution, mounted on a trailer for quick deployment.

SPECIFICATIONS

KEY FEATURES

- Detect and Identify UAS and aerial targets
- Jams full range of GNSS spectrum, as well as typical command and control channels.
- Spoofs commercial GNSS spectrum to protect a specified area of interest
- Combination of jamming and spoofing capability for maximum coverage range
- Typical jamming range for unprotected GNSS platform is up to 10km
- Typical jamming performance for command-and-control channels is 2:1 from drone's remote control
- Installed in a trailer, the system is fully self-contained, with the option of external power source for fixed deployment operation

COMPONENTS

- Jammer & Spoofer
- EO/IR Camera
- Radar
- Protocol DF



Equipment	L mm	W mm	H mm	W kg
Trailer	5163	2065	2729 / 3586	~ 3000
Equipment Total				~ 3000

SPECIFICATIONS^①

Hardware	
Jammer Operational Bandwidth	400 to 6000 MHz,
GNSS Spoofing Frequency	GPS L1C/A, L2C/A, GLONASS G1, G2,
RF Jamming Total output power	350W
RF Jamming and Spoofing Distribution	Jamming: 100W from 400-1000MHz Jamming/Spoofing: 100W from 1000-2000MHz Jamming: 100W from 2000-3000MHz Jamming: 50W from 3000-6000MHz
Jammer Signal Source	Field programmable gate array (FPGA)
Jammer Type	Active Jammer
Jammer Exciter sweep time	< 1.8 micro-sec
Jammer Total power control step size	2 dB
Jammer Transmission Power control dynamic range	>20dB
DF Frequency Range	100 to 6000 MHz
DF Receiver Channel Topology	3-5 channels
DF Algorithm	Correlative Interferometric
DF Instantaneous Bandwidth (MHz)	Up to 40 MHz
DF Minimum Resolution BW	25 KHz
DF Effective DF Scan Rate (MHz/s)	≥ 10GHz/s @ 40MHz/25KHz BW/Resolution
DF Bearings per second	≥ 100,000/s
EO/IR Camera	As per OEM specifications
Radar	As per OEM specifications
Power Consumption (Peak)	< 5KW (excluding 3 rd party equipment)
Connectivity to Command & Control	Ethernet interface
Antennas	Omni-directional and high gain directional antennas
Safety	Alarms for VSWR and temperature
Environmental ^②	Design to meet MIL-STD 810G
Software	
Remote Control Unit	C-UAS C2 application
Exciter controller	Ability to activate/deactivate specific frequency bands
Jammer Power mute	GUI allows the user to mute specific bands before activation and/or all bands instantaneously.
Health monitor	System status (Initializing, standby, transmitting)
Selectable jamming threats	400 to 6000 MHz
Ephemeris data	Live update obtained from current location
Update desired spoof location	User defined spoof location

DEPENDENCIES

- The spoofer requires fresh ephemeris data to properly works
- Antennas must have clear line of sight to the jammed/spoofed target

^① All specifications provided herein are indicative values and figures, and there may be reasonable deviation from the same.

^② The environmental conditions stated above apply only to the SkyShield TM systems' main components.