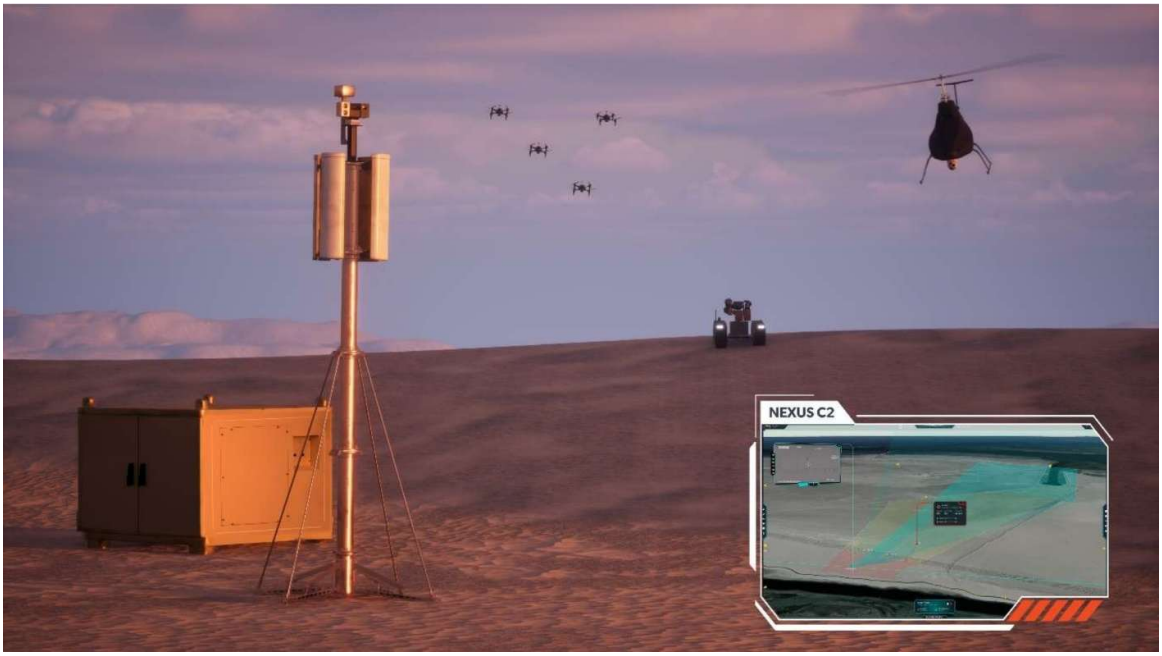
SIGN4L

BORDERSHIELD



A next-generation border control system fusing a proprietary command and control system, advanced artificial intelligence, and integrated sensors, weapon systems to provide persistent awareness and security for border protection

SPECIFICATIONS

KEY FEATURES

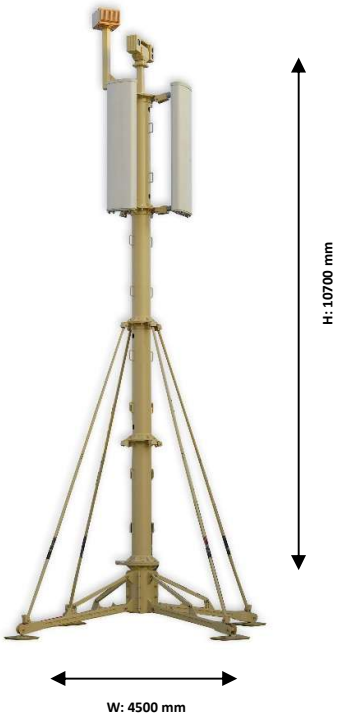
- Operates with "NEXUS," a cutting-edge command and control system that uses proprietary technology and advanced artificial intelligence
- NEXUS is integrated with sensors for the detection, classification, and acquisition of targets
- Once a target is classified as a threat, NEXUS provides autonomous actions using all available
- sensors and commands respond using autonomous platforms (drones/ISR/UGV) based on availability, user predefined zones, rules, and actions
- Cellular Identification with support for GSM, UMTS, LTE and 5G NSA
- Continuous detection of cellular identities with smart switching of antenna sectors

COMPONENTS

- NEXUS – Command & Control System
- High Power Cellular System
- Thermal Optical Camera
- Radar
- System fitted into customized, standalone, air-conditioned rack

Equipment	L mm	W mm	H mm	W kg
Tower with antennas		4500	10700	Approx. 300
Outdoor cabinet	1370	1110	1720	<600





SPECIFICATIONS[Φ]

NEXUS	
NEXUS	Proprietary command and control system fused with advanced artificial intelligence, built with open architecture for fast integration with third party sensors and effectors
Mode of Operation	Detection, inspection, classification and effecting
Radar Track	Displays live tracking of potential intruders
Video Feed	Displays live video feeds from all relevant assets
Cellular Interception	Collects IMSI's of potential intruders
Seismic Sensors	Monitors seismic sensors to confirm intruders
Map	Site Coverage, asset positions and sensor field of vision. Full GIS features. Zone creation, with rule engine. Support for multiple map tile providers
Manual Inspection & Engage	Manual inspect & engage actions on location & observation using relevant assets (camera, drones, ISR etc.)
Autonomous platforms (Optional)	Not included third party ISR, MultiCopter Swarm, UGV (weaponized) can be integrated
Classification and Categorization	Classification and categorization, utilising artificial intelligence, of observations (manual or automatically based on user defined rules)
Observation Rules	Rule based filtering and correlation of observations for focused situational awareness
Post Event Data	Report of all relevant system observations and full audit reports
Health & system monitoring	Health, Alarms (High power, VSWR and temperature) and BIT
Hardware	
Cellular interception capabilities	Supported Technology: GSM, UMTS, LTE & 5G NSA
Supported Third Party Sensors	Camera, Radar and Seismic sensor
Display	Server with map, asset and observation view
Environmental[1]	Designed for MIL-STD 810G

DEPENDENCIES

- Client should provide reliable power supply and network connectivity

[Φ]All specifications provided herein are indicative values and figures, and there may be reasonable deviation from the same.

1 The environmental conditions stated above apply only to the BorderShield systems' main components.