

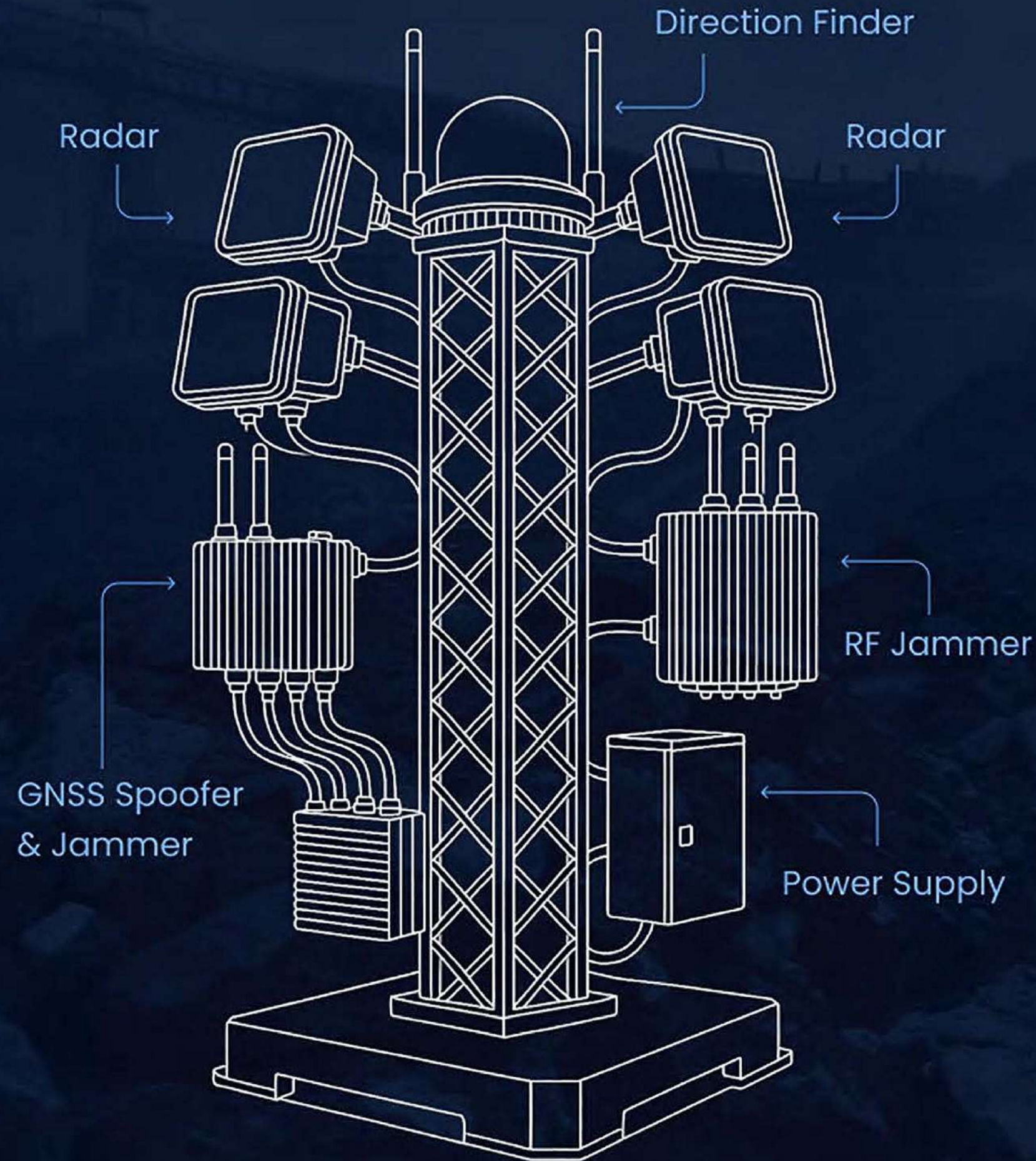


DRONE DEFENSE



Indrajaal Infra is designed to **neutralize rogue drones by crashing them** with precision, ensuring no collateral damage while securing critical assets like nuclear power plants, oil rigs, and ports.

FEATURES



Aggressive soft-kill Weapons

Jammer and spoofer mitigates 95% of available drone types



Vehicle-deployable

Designed for mobility—easily transportable and deployable from vehicles for rapid response



Autonomous engagement

Threats are detected and neutralised autonomously. No manual intervention needed.



Civilian airspace compliant

Secure, non-destructive drone mitigation that meets regulatory standards



Pre-defined fly zones

Customize your defense with pre-defined fly zones to enhance security and control.



48hr installation

Get up and running swiftly with a straightforward installation process—ready in just 48 hours.



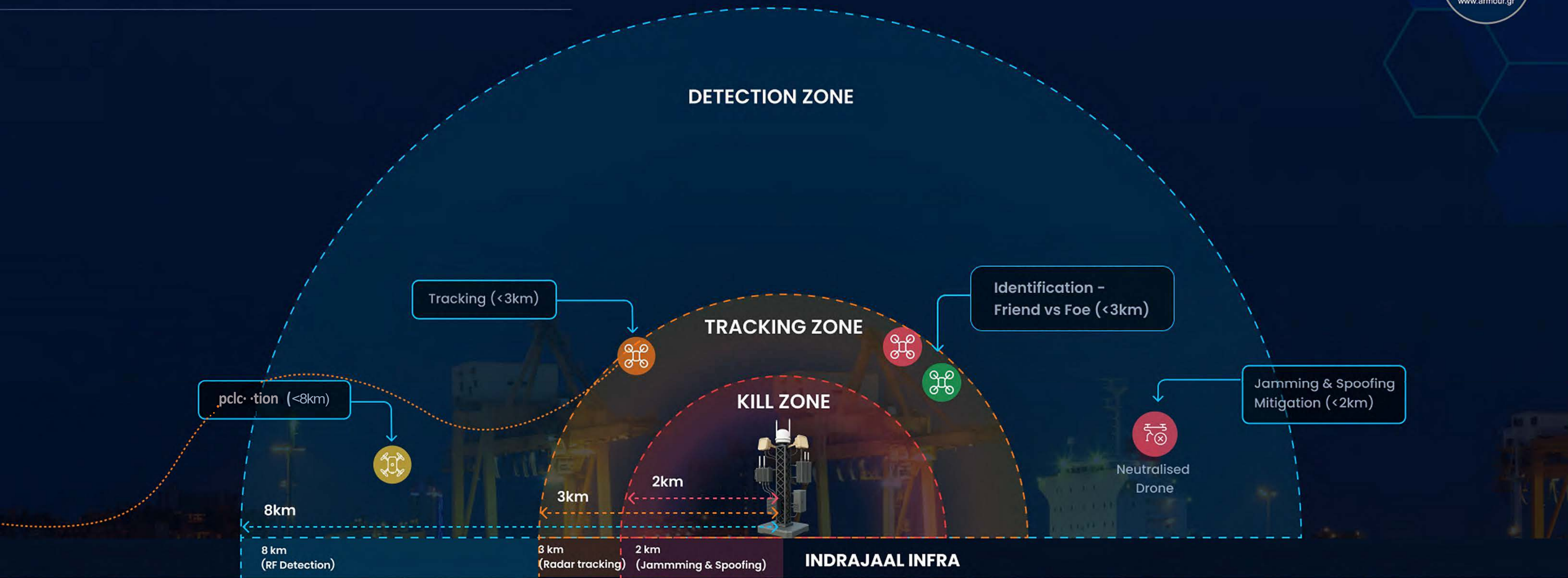
No collateral damage

Neutralize threats efficiently while ensuring the safety of surrounding environments.



Works in all weather, day & night

Reliable performance in any conditions—day or night, rain or shine.



Capabilities

☒ Off-the-shelf drones 

☒ DIY Drones 

☒ FPV Drones 

☒ Swarm Drones 

☐ Dark Drones* 

DTIM Ranges

Detection (RF)	Tracking (Radar)	Identification	Mitigation (Jamming & Spoofing)
<8kms	<3kms	<3kms	<2kms

*Dark drone mitigation capabilities are supported in Indrajaal Military



GNSS Spoofer & Jammer

Disrupts a drone's GPS signals, forcing it to lose navigation or divert to a safe location.



Radar

Detects and tracks drones in real-time, providing early warning and precise location data.



HyperMind™ Computing

Processing unit that enables autonomous detection, tracking, and neutralization of aerial threats using real-time data fusion and adaptive decision-making.



RF Jammer

Disrupts drone communication links, cutting off control and video feeds instantly.



Direction Finder

Pinpoints the drone and controller's locations, enabling identification and countermeasure targeting.



SkyOS™

Central command system that monitors, manages, and coordinates all counter-drone actions.



RF DIRECTION FINDER

Range and Coverage		Performance Metrics and Scalability	
Low Frequency Bands Supported (Only Presence and no direction required)	433MHz, 868MHz, 915MHz	Maximum concurrent detection of drones	60
High Frequency Bands Supported	2.4GHz, 5.1GHz, 5.2GHz, 5.8GHz	Maximum concurrent detection on frequency bands	7
Maximum Operational Range	8km	What is the false alarm rate for the detection	Near zero
Azimuth Operational Coverage	360°	Direction Finding Accuracy for High Bands with 8 Phased Array Antenna Configuration	±7.5°
Elevation Operational Coverage	±60°	Direction Finding Accuracy for High Bands with 16 Phased Array Antenna Configuration	±4°
Average detection time	< 15s	What is the frequency Detection Accuracy	± 100 kHz
Average Refresh Rate	20s	What is the accuracy of triangulation with a configuration of 2 units	1000m
Antenna and Signal Reception		What is the accuracy of triangulation with a configuration of more than 2 units	300m
Antenna Type Supported	Omni-directional	Environmental and Operational Factors	
Antenna Configuration of the Unit	Phased Array Antenna	Operating Temperature Range	-30°c to +60°c
Minimum frequency resolution	< 1KHz	Storage Temperature Range	-40°C to 65°C
Number of Antennas that can be connected to the unit	Variant 1 - 8 Antennas Variant 2 - 16 Antennas	Humidity Resistance	0% to 95% RH
Antenna gain range for low bands	19 to 21 dB gain	EMI/EMC Compliance Standards	MIL-STD-461G
Antenna gain range for high bands	2.4GHz - 15.5 to 16.5 dB gain 5.8GHz - 12.5 to 13.5 dB gain	Waterproof Rating	IP66
High Dynamic Range of the unit	70dB	Built-in Test Equipment	Yes
Instantaneous Bandwidth for Scanning	60MHz	Power Supply Required	110-240v
Scanning Frequency Resolution	100Hz	Maximum Power Consumption	100W
Instantaneous Scan Rates	1s	Maximum Weight	12kg
		Maximum Dimensions	318mm (diameter) x 294mm (height)



RADAR

Range and Coverage		Performance Metrics and Scalability	
Maximum Range	RCS = 0.01m2 (-20 dBsm) Range = 2.8 km	Range Accuracy	1.5 m
	RCS = 0.1m2 (-10 dBsm) Range = 4.8 km	Maximum Number of Tracks can be tracked simultaneously	1000
	RCS = 0.5m2 (-3 dBsm) Range = 7.2 km	Azimuth Accuracy	< 0.5°
	RCS = 1 m2 (0 dBsm) Range = 10.1 km	Elevation Accuracy	< 0.5°
Maximum Altitude	RCS = 0.01m2 (-20 dBsm) Altitude = 1.8 km	Minimum angular resolution	2.3 deg Elevation and 4.3 deg azimuth
	RCS = 0.1m2 (-10 dBsm) Altitude = 3.2 km	Speed Accuracy	± 5 m/s
	RCS = 0.5m2 (-3 dBsm) Altitude = 4.8 km	Maximum Track Refresh Rate	1 sec
	RCS = 1 m2 (0 dBsm) Altitude = 6.8 km	False alarm rate	4e-8
Maximum Azimuth Coverage	± 65°	Environmental and Operational Factors	
Maximum Elevation Coverage	50° / -40°	Operating Temperature Range	-40°C to +65°C Typical ambient conditions
Maximum Operating Altitude	0-10,000 ft AGL	Storage Temperature Range	-40°C to +85°C for up to 2 years
Minimum Target Speed for Detection	0.02 m/s	Max Humidity	RH 100%, non-condensing
Maximum Target Speed for Detection	940 m/s	EMI/EMC	MIL-STD-461, CE compliance
Antenna and Signal Tx/Rx		Shock Resistance	MIL-STD-810H
Radar Type	Pulsed Doppler Electronically Scanned Array	Ingress Protection	IP67
Radar Modes	Search Search While Track	Built-in Test Equipment	Yes
Operating Frequency Range	15.7-16.6 GHz	Power Supply	48V DC
Number of Antennas	Single phased-array antenna	Idle Power Consumption	77W
		Max Power Consumption	200W
		Maximum Weight	18 kg
		Dimensions	42.5 cm x 33 cm x 18 cm
		Deployment Options	Vehicle Mounted Stationary



GNSS SPOOFER AND JAMMER

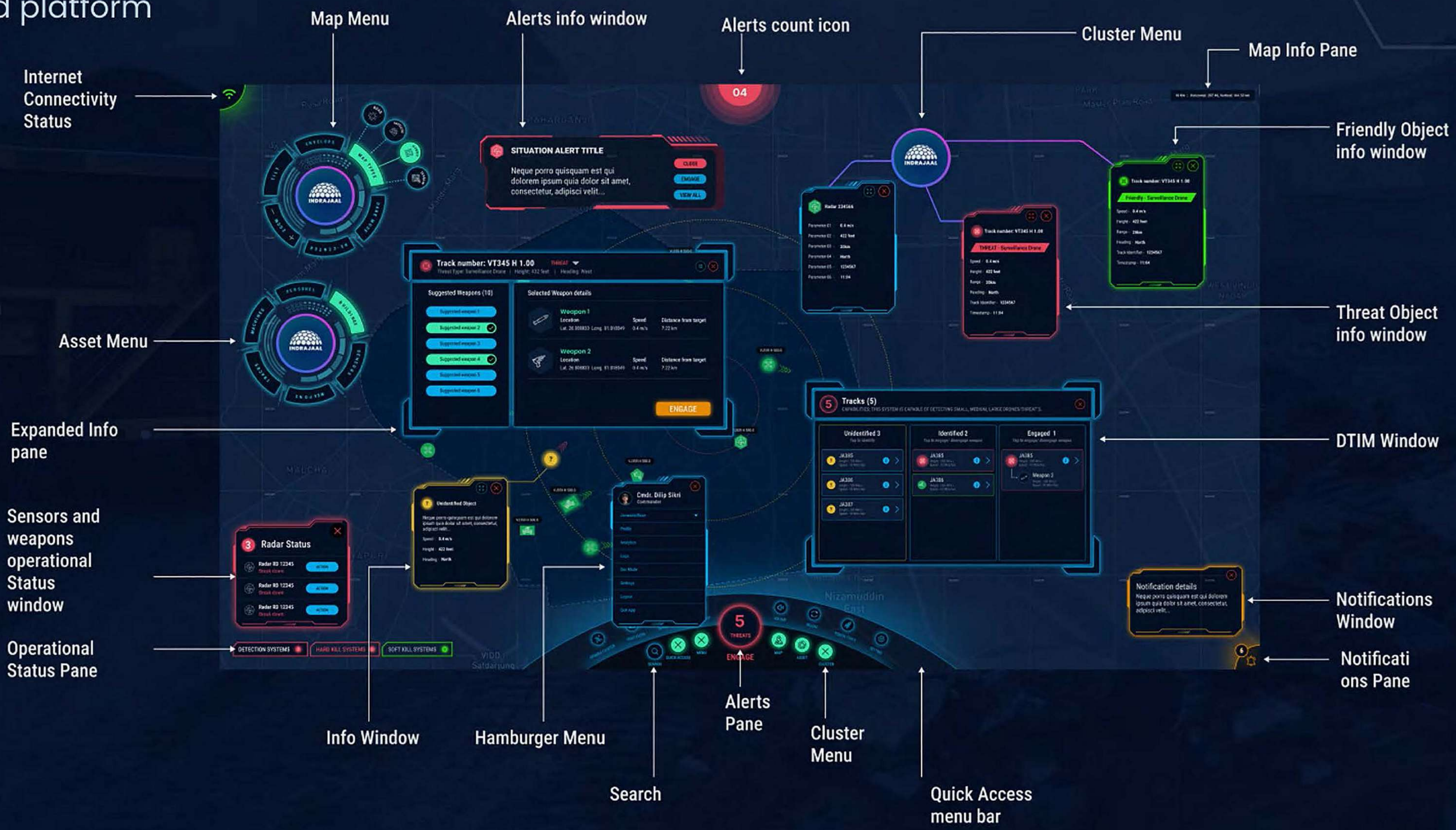
Range and Coverage		Environmental and Operational Factors	
Maximum Jamming Range	2km	Sensor EMI/EMC	MIL-STD-461E
Maximum Spoofing Range	2km	Sensor Ingress Protection	IP67
Azimuth Coverage	360 degrees	Sensor Built-in Test Equipment	Yes
Elevation coverage	360 degrees	Sensor Maximum Weight	Main Unit: 7kg Tripod + Antenna: 4kg
Spoofing Mode	Navigation spoofing	Sensor Dimensions	320 x 340 x 96mm (without antennas)
Jamming Mode	Sweep	Sensor Idle Power Consumption	30W
White Listing of Frequency Supported	Yes	Sensor Max Power Consumption	60W
Antenna and Signal Reception		Power Supply Type Supported	Mains or Battery
GPS Bands Spoofing Coverage	L1	Power Supply (Mains)	100-240VAC, 100W
Galileo Bands Spoofing Coverage	E1	Battery Type	Rechargeable Li-ion Battery Pack
BeiDou Bands Spoofing Coverage	B1	Battery Capacity	15.6 Ah @ 3A
GLONASS Bands Spoofing Coverage	L1	Battery Energy	230Wh
GPS Bands Jamming Coverage	L2	Battery Charging Time	2 hours
Galileo Bands Jamming Coverage	E5b	Battery Life	4 hours
BeiDou Bands Jamming Coverage	B2	Battery Lifecycle	300 cycles to 80% capacity @ 100% DOD
GLONASS Bands Jamming Coverage	L2	Battery Dimensions	186.2mm X 69.5mm X 65mm
Transmission Output Variable	30dBm to 51dBm	Battery Weight	1250gms
Performance Metrics and Scalability		Battery Housing	ABS
Spoofing Duration	Can Spoof continuously on AC Power. 2 hours with battery power	Battery Energy Density	177 Wh/kg; 269 Wh/l
Mitigation Success Rate (Even any other device used GNSS System like smartphones, etc)	> 98%	Battery Charge Cycle Temperature Range	0°C to 45°C
Environmental and Operational Factors		Battery Discharge Cycle Temperature Range	-34°C to 60°C
Sensor Operating Temperature Range	-40°C to +50°C	Battery Storage Temperature Range	-20°C to 50°C
Sensor Storage Temperature Range	-50°C to +85°C	Battery Humidity Range	0 to 90%
Sensor Humidity Range	0% to 95% RH, non-condensing	Battery Transportation Class	9
		Battery Certifications	MIL-STD-810E
		Battery Safety	Under/over voltage Under/over current Short circuit Temperature Reverse polarity



RF JAMMER

Range and Coverage		Performance Metrics and Scalability	
Jamming Method	Noise Sweep	Number of bands that can be jammed concurrently	9
Jamming Range	2km	Number of drones that can be jammed concurrently	60
Operational Frequency Range	433-434MHz	Continuous Jamming Time	3 Hours
	860-925MHz	Cooling Type	In-Built Cooling Fans
	1160-1280MHz	Cooling Time	20 mins
	1400-1499MHz	Average Mitigation Time	10s
	1560-1620MHz	Environmental and Operational Factors	
	2400-2500MHz		
	5170-5250MHz		
Azimuth Coverage	360 degrees	Temperature Range	-25°C to +60°C
	360 degrees	Storage Temperature Range	-40°C to 65°C
Single Target Effective Range	J/S 3:1	Humidity Resistance	95%
Antenna and Signal Reception		Waterproof Rating	IP66
Out Of Band Rejection	20 - 40 dB	Power Supply Required	110-240v
Frequency Hopping Rate	400 hps	Power Consumption	150W
Frequency Agility	Frequency hopping at 200 KHz	Weight	30kg
		Weight with battery	37kg
		Dimensions	120 mm (width) x 405 mm (height) x 240 mm (depth)
		Deployment Options	Vehicle Mounted Stationary

Indrajaal Infra is powered by our proprietary AI-enabled platform



FEATURES & BENEFITS



Comprehensive C5ISR

Indrajaal is a unified Command, Control, Communication, Combat, Intelligence, Surveillance, Reconnaissance, and Targeting (C5ISR) platform designed to provide integrated and real-time decision-making across multiple domains. threats.

Plug-and-Operate Architecture

Pre-integrated hardware and software stack ensures rapid deployment without lengthy installation or calibration procedures.

Seamless Integration with any C2 Infrastructure

We can easily integrate with existing Command and Control (C2) infrastructure without any operational disruption, ensuring business continuity during the integration process.

Rooftop-Deployable, Space-Efficient Design

Engineered for constrained urban and industrial sites — with a compact footprint that mounts on flat surfaces without structural overhaul.

Multi-Layered Countermeasure Stack

Combines cutting-edge RF jamming, GNSS spoofing, direction finding, and radar for redundant and resilient drone defense.

Mission-Critical Power Resilience

Integrated UPS and energy management systems ensure uninterrupted protection during grid failures or attacks on power infrastructure.

Scalable for Multi-Tower Network Defense

Easily integrates into a larger Indrajaal network mesh, with synchronized situational awareness and coordinated countermeasures across assets.

Open-Protocol Support

Indrajaal supports open protocols, ensuring compatibility with existing third-party equipment. This allows for smooth integration of previously procured assets into the system without the need for complete replacements.

Low Maintenance, High MTBF Hardware

Industrial-grade components with self-diagnosing capabilities reduce human servicing requirements and improve lifecycle cost-efficiency.

Autonomous, 24x7 Threat Mitigation

Operates continuously without human intervention to detect, track, and neutralize hostile drones in real-time using a fully AI-powered system.

Secure, Remote Command Interface

Enables encrypted, over-the-air monitoring, diagnostics, and manual override, ensuring security teams retain full situational control.

Past-prepared and future-ready

With its ability to expand through plug-and-play capabilities, Indrajaal is both past-prepared with deep system integration and future-ready to scale with your evolving security needs.



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