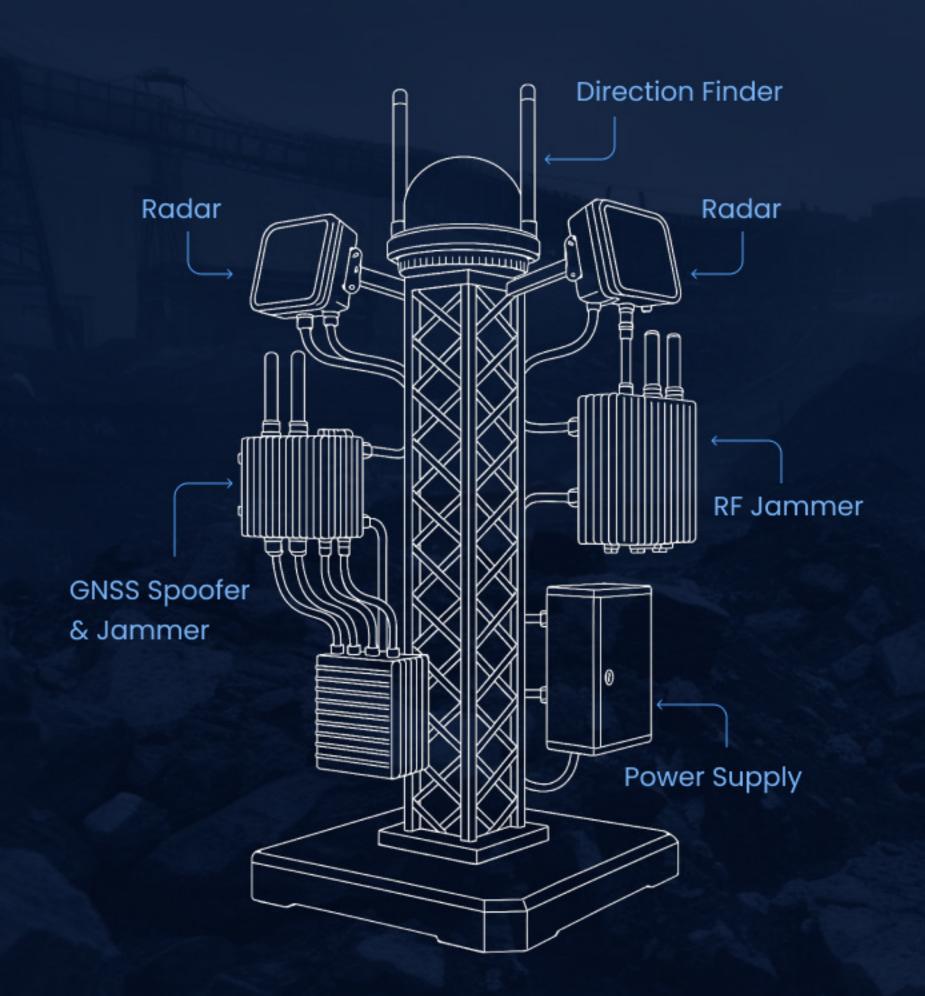






Indrajaal Infra is
designed to neutralize
rogue drones by crashing
them with precision,
ensuring no collateral
damage while securing
critical assets like nuclear
power plants, oil rigs, and
ports.







Aggressive soft-kill Weapons

Jammer and spoofer mitigates 95% of available drone types



Pre-defined fly zones

Customize your defense with predefined fly zones to enhance security and control.



Vehicle-deployable

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



48hr installation

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



Autonomous engagement

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



No collateral damage

Neutralize threats efficiently while ensuring the safety of surrounding environments.



Civilian airspace compliant

Operate safely and legally within civilian airspace without compromising security.



Works in all weather, day & night

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



Real-time, intelligent drone defense built for high-risk, high-value infrastructure.



Oil rigs & Refineries

Blocks drones from triggering fires, leaking sensitive data, or threatening critical pipeline infrastructure.



Ports

Prevents smuggling, sabotage, and drone-induced operational disruptions at busy maritime hubs.



Nuclear power plants

Safeguards nuclear sites from espionage, sabotage attempts, and drone-induced operational risks.



Mines

Stops unauthorized drone surveillance, prevents on-site accidents, and secures hazardous material storage areas.



Industries

Protects intellectual property, secures high-value assets, and ensures uninterrupted production and supply chains.

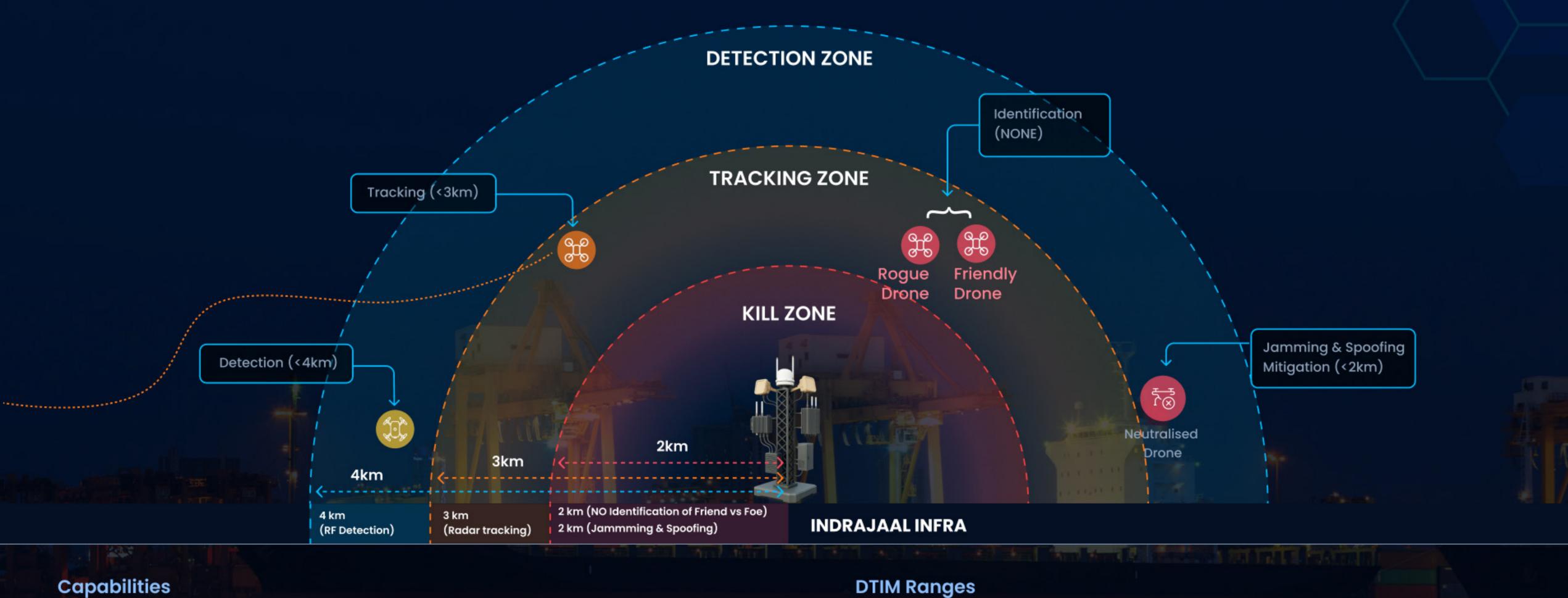


Power transmission grids

Prevents drone interference, protects vital equipment, and ensures continuous energy distribution.

CAPABILITIES





Capabilities DIY Drones FPV Drones Off-the-shelf drones 쨒 ₽©4 Swarm Drones Dark Drones*

Tracking (Radar) Detection (RF) <4kms

<3kms

Mitigation Identification (Jamming & Spoofing) <2kms NONE

^{*}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.



RF Jammer

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



Radar

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



Direction Finder

Pinpoints the source of a drone's control signals, enabling identification and countermeasure targeting.



Processing unit

Autonomous detection, tracking, and neutralization of aerial threats using real-time data fusion and adaptive decision-making.



Command & Control Unit

Central command system that monitors, manages, and coordinates all counterdrone actions.

SPECS



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

SPECS



RF DIRECTION FINDER



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

SPECS



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	
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
Antenna ana signar keception		Power Supply (Mains)	100-240VAC, 100W
GPS Bands Spoofing Coverage	u	Battery Type	Rechargeable Li-ion Battery Pack
Galileo Bands Spoofing Coverage	El	Battery Capacity	15.6 Ah @ 3A
BeiDou Bands Spoofing Coverage	B1	Battery Energy	230Wh
GLONASS Bands Spoofing Coverage	u	Battery Charging Time	2 hours
GPS Bands Jamming Coverage	L2	Battery Life	4 hours
Galileo Bands Jamming Coverage	E5b	Battery Lifecycle	300 cycles to 80% capacity @ 100% DOD
BeiDou Bands Jamming Coverage	B2	Battery Dimensions	186.2mm X 69.5mm X 65mm
GLONASS Bands Jamming Coverage	L2	Battery Weight	1250gms
Transmission Output Variable	30dBm to 51dBm	Battery Housing	ABS
		Battery Energy Density	177 Wh/kg; 269 Wh/I
Performance Metrics and Scalab	oility	Battery Charge Cycle Temperature Range	0°C to 45°C
Spoofing Duration	Can Spoof continuously on AC Power. 2 hours with battery power	Battery Discharge Cycle Temperature Range	-34°C to 60°C
		Battery Storage Temperature Range	-20°C to 50°C
Mitigation Success Rate (Even any other device used GNSS System like	> 98%	Battery Humidity Range	0 to 90%
smartphones, etc)		Battery Transportation Class	
Environmental and Operational	Environmental and Operational Factors		MIL-STD-810E
Sensor Operating Temperature Range	-40°C to +50°C	Battery Safety	Under/over voltage Under/over current Short circuit Temperature Reverse polarity
Sensor Storage Temperature Range	-50°C to +85°C		
Sensor Humidity Range	0% to 95% RH, non-condensing		





RF JAMMER

Range and Coverage		Performance Metrics and Scalab	bility
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 860-925MHz 1160-1280MHz 1400-1499MHz 1560-1620MHz 2400-2500MHz 5170-5250MHz	Continuous Jamming Time	3 Hours
		Cooling Type	In-Built Cooling Fans
		Cooling Time	20 mins
		Average Mitigation Time	10s
	5700-5900MHz	Environmental and Operational Factors	
Azimuth Coverage	360 degrees	Temperature Range	-25°C to +60°C
Elevation Coverage	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			
Out Of Band Rejection	20 - 40 dB	Waterproof Rating	IP66
Frequency Hopping Rate	400 hps	Power Supply Required	110-240v
Frequency Agility	Frequency hopping at 200 KHz	Power Consumption	150W
Trequency Agmity	rroquonoy nopping at 200 km2	Weight	30kg
		Weight with battery	37kg
		Dimensions	120 mm (width) x 405 mm (height) x 240 mm (depth)
		Mast height for best performance	20m
		Deployment Options	Vehicle Mounted Stationary

SkyOS™ Platform



Indrajaal Infra is powered by our proprietary Al-enabled platform Map Menu Alerts info window Alerts count icon Cluster Menu Map Info Pane Internet Connectivity Status Friendly Object info window SITUATION ALERT TITLE Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, (S) Track number: VTD45 H 1.0 consectetur, adipisci velit... Radar 234566 Height - 422 Rest Track number: VT345 H 1.00 THREAT TO THREAT THE TOTAL TYPE: Servellance Crore | Height: 432 feet | Heading: West **Threat Object** info window **Asset Menu** Tracks (5) **Expanded Info DTIM Window** pane Crndr. Dilip Sikri Commander Sensors and weapons Radar Status operational Status Rader RD 12345 Notification details **Notifications** window Rador RD 12345 Window Operational SOFT KILL SYSTEMS 👩 Notificati **Status Pane** ons Pane **Alerts** Pane Cluster Info Window Hamburger Menu Menu **Quick Access** Search

menu bar

FEATURES & BENEFITS



Comprehensive C5ISRT

Indrajaal is a unified Command, Control,
Communication, Combat, Intelligence, Surveillance,
Reconnaissance, and Targeting (C5ISRT) 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 RF jamming, GNSS spoofing, direction finding, radar, and EO/IR sensors 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 Al-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.

GET IN TOUCH



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