

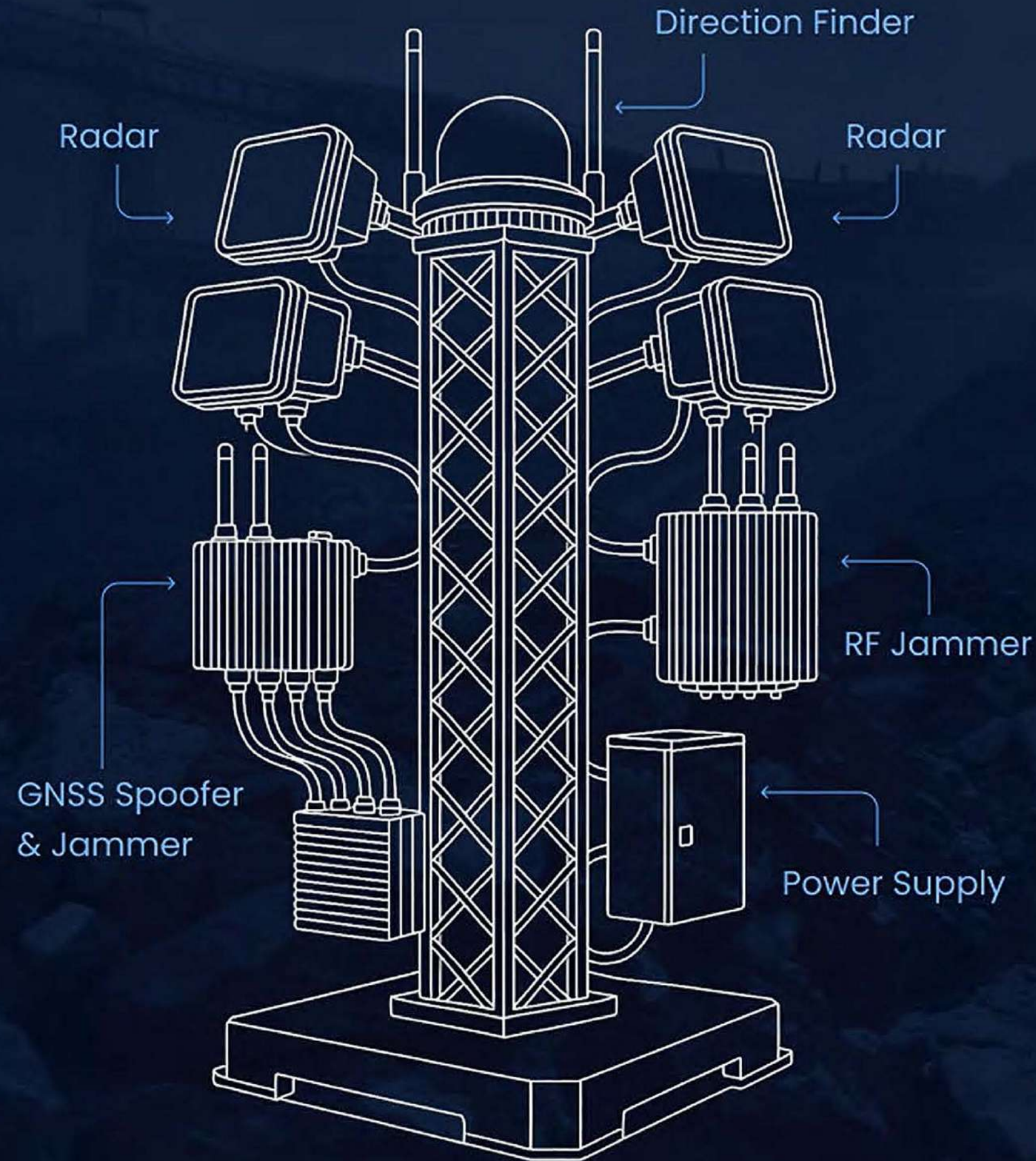


DRONE DEFENSE



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.



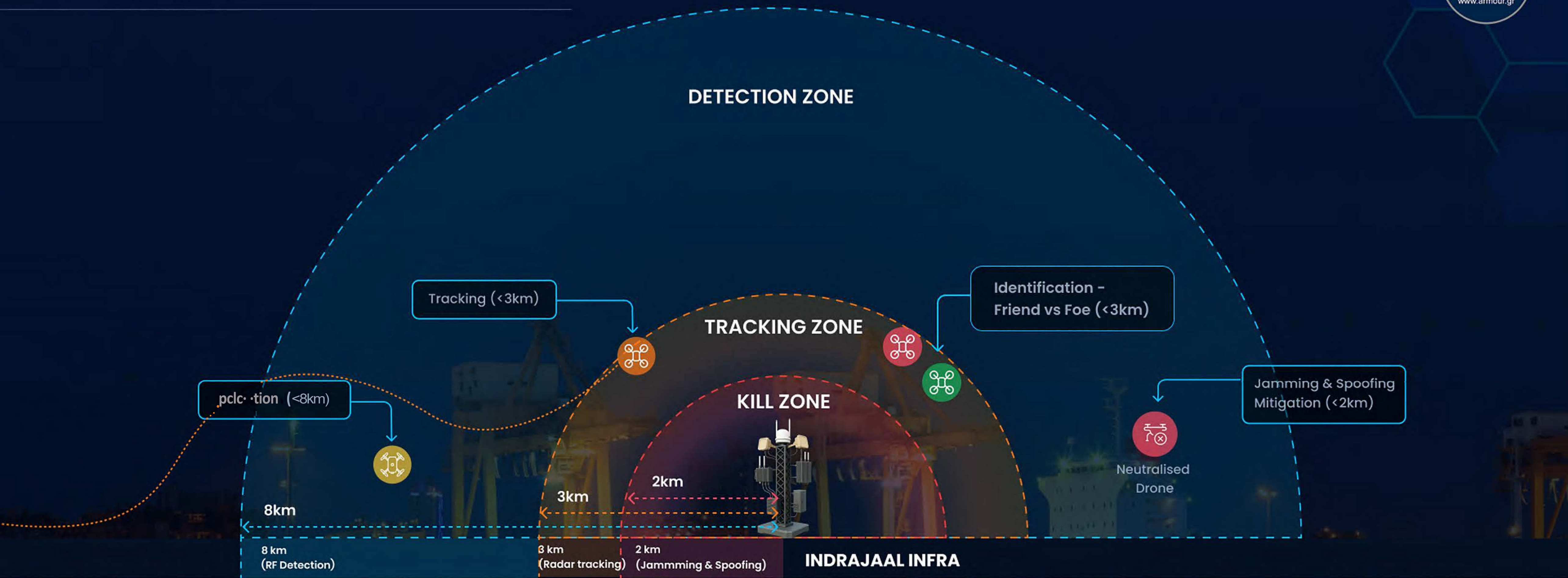
No collateral damage

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* 

*Dark drone mitigation capabilities are supported in Indrajaal Military

DTIM Ranges

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



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

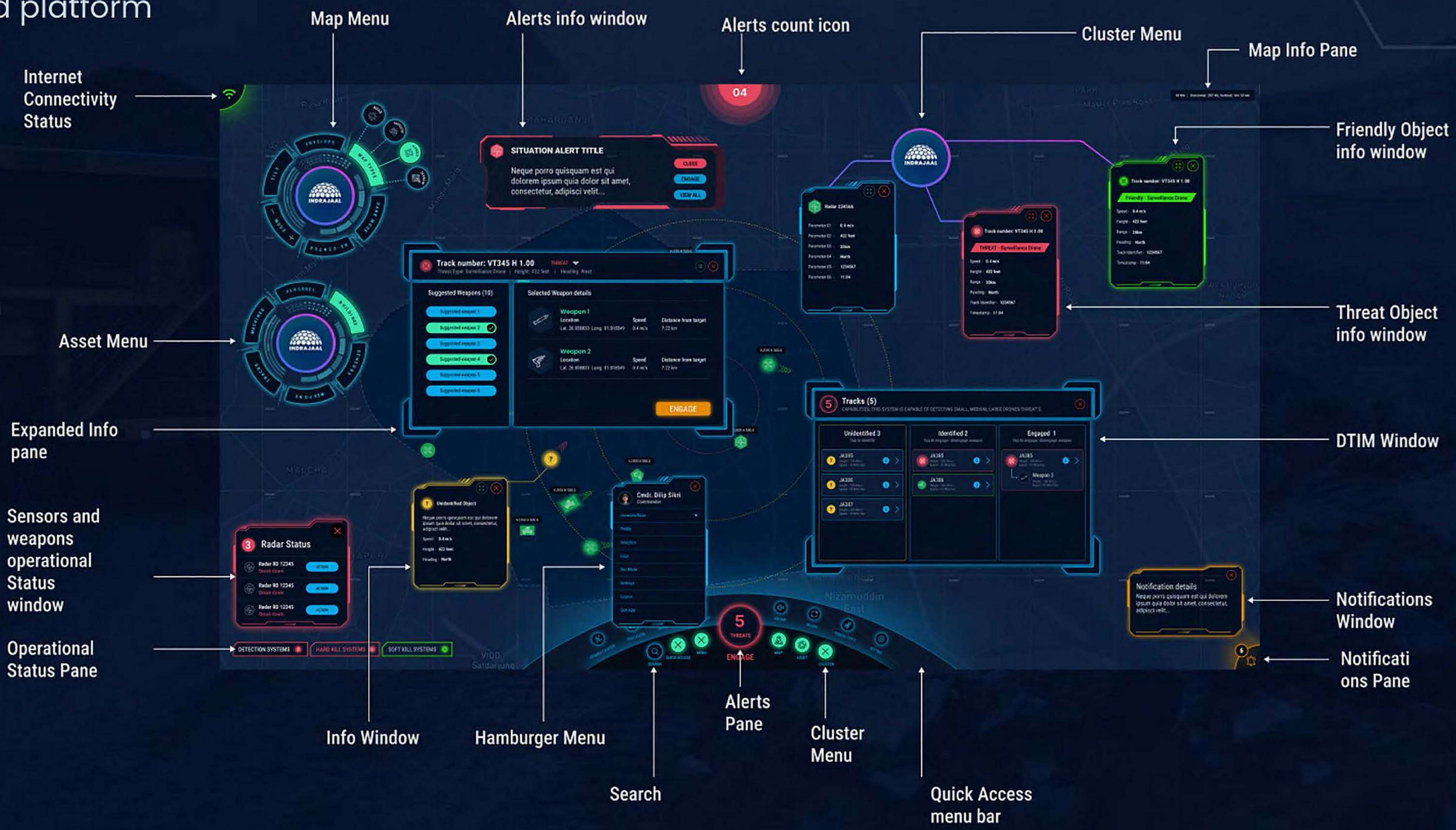
| Range and Coverage | | Environmental and Operational Factors | |
|--|---|---|--|
| Maximum Jamming Range | 2km | Sensor EMI/EMC | MIL-STD-461E |
| Maximum Spoofing Range | 2km | Sensor Ingress Protection | IP67 |
| Azimuth Coverage | 360 degrees | Sensor Built-in Test Equipment | Yes |
| Elevation 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 | Temperature Range | -25°C to +60°C |
| | 5170-5250MHz | Storage Temperature Range | -40°C to 65°C |
| | 5700-5900MHz | Humidity Resistance | 95% |
| Azimuth Coverage | 360 degrees | Waterproof Rating | IP66 |
| Elevation Coverage | 360 degrees | Power Supply Required | 110-240v |
| Single Target Effective Range | J/S 3:1 | Power Consumption | 150W |
| Antenna and Signal Reception | | Weight | 30kg |
| Out Of Band Rejection | 20 - 40 dB | Weight with battery | 37kg |
| Frequency Hopping Rate | 400 hps | Dimensions | 120 mm (width) x 405 mm (height) x 240 mm (depth) |
| Frequency Agility | Frequency hopping at 200 KHz | 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.

An aerial, high-angle view of a city with a grid-like street pattern. A dark, semi-transparent horizontal band runs across the middle of the image. In the center of this band, the website address 'www.armour.gr' is written in a large, white, sans-serif font. Below this band, towards the bottom of the image, the words 'Detect & Defend' are written in a smaller, white, sans-serif font. The background image is slightly blurred, showing buildings and streets from above.

www.armour.gr

Detect & Defend