ARMS
Anti RPAS Multisensor System

Baseline system proposal

Radar
- Ku Band, FMCW
- Scan 360°/sec
- Sectorized RF blanking
- Low power: safe for humans
- Low weight & size
- Intrinsic LPI
- Doppler & Clutter Map techniques
- True track report (position, course & speed) > 2 Km for smallest targets of RCS ≤ .01 m², once per second
- X-Band alternative for longer ranges

Jammer
- Multiband, high power
- Smart jamming
- Directive, sectorial and omnidirectional antennas available
- Software Defined Radio: waveforms, power & bands related to threat type
- Several bands available: Data & Control Links from 20 MHz to 6 GHz / Control Link / GNSS
- Selective band activation
- Sweep jamming
- Effective up to more than 5 Kms.

Optronic
- Camera model (IR & CCD) selectable from a wide range
- Medium & Long Range IR available. Cooled & uncooled
- Wide & narrow FoV. Continuous zoom
- 360° PTZ platform
- Searching & classification based on AI techniques
- Tracking and 3D positioning
- Camera model (IR & CCD) selectable from a wide range
C4ARMS
Improved Command & Control System
- Next-generation graphical user interface: easy to use & intuitive. Low training requirements. Rich information available
- Real time rewinding
- Flexible reaction policies within specific geographical areas: fully customizable, rules-based engine
- Reaction policies to be activated on track behavior: position, course, speed, elevation, etc.
- Customized reactions
- Not-to-jam and/or not-to-look definable areas, in 3D
- One interface for unlimited sensors & actuators
- Additional 3D-map interface for better Operational Awareness
- Integration with higher-level C2 Systems and 3rd party sensors, monitoring and tracking systems
- Information interchange with ATM/UTM/AirDef Systems

Available Deployments
Fix installations
Mobile, either military or civilian vehicles
Integrated trailer, for easy transportation
Boxes, deployable at any place

Surveillance
- Radar
- RF sensors

Identification
- E/O Behavior
- DB Correlation Tracking
- CM Designation

Counter-measures
- Interception
- Jamming
- Spoofing

Flexibility in the DNA
Ready to fit all scenarios.
Ready to evolve with threats
- Several radar models to meet all requirements
- RF sensors: RF Analyzers, RDF, Multilateration, manufacturer specific tools
- Acoustic and others
- Additional jamming bands on request
- Other interception techniques: Spoofing
- Easy to grow in sensors, actuators & operators
- Integration to other C4ISR at different levels to reduce operator needs
- Integration with UTM/ATM/AirDef systems: White list generation and alarm cross reporting
- Defensive Hardkill integration capability

Drone lawless usage has no limits:
- Intelligence, espionage. Privacy attempts
- Deliveries of drugs & devices to prisons
- Unintentional dangerous use near Airports or critical sites
- Search for media impact
- Drug and goods smuggling
- Platform for attacks: IED carrier

Indra reserves the right to modify these specifications without prior notice.