Aircraft Industries

GROUP OMNIPOL



MULTIROLE AIRCRAFT PLATFORM

TOMAS NOVAK, AIRCRAFT INDUSTRIES

FUTURE AIR FORCE CONFERENCE
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A WORLD FULL OF GROWING UNCERTAINITY



REQUIRES NEW AVIATION SOLUTIONS

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MULTIROLE PLATFORM

- **Adaptability in a volatile environment**

Changing market conditions demand flexible, cost-efficient solutions.

- **Cost optimization through in-house solutions**

Simple, internally developed solutions help minimize operational costs and maintain control.

- **Multi-purpose platform approach**

A single platform should support multiple roles and user needs, maximizing efficiency and value.



STANDARD AIRCRAFT VERSIONS

PASSENGER

19-seat passenger version with the option to install quick-change kits



VIP

Special Configuration for VIP Passengers



FLYING AMBULANCE

Emergency configuration for transport critically unstable patients



MPA / ISR

Special aircraft configuration equipped to carry out special missions



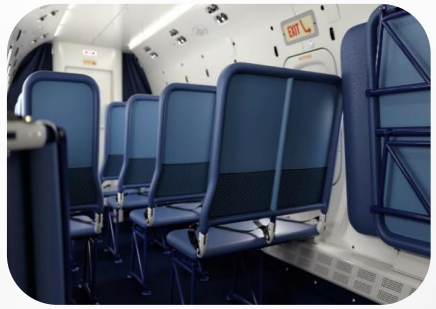
MULTI-ROLE SOLUTION





ONE AIRCRAFT - MULTIPLE ROLES

FOLDABLE SEATS



CARGO KIT



VIP KIT



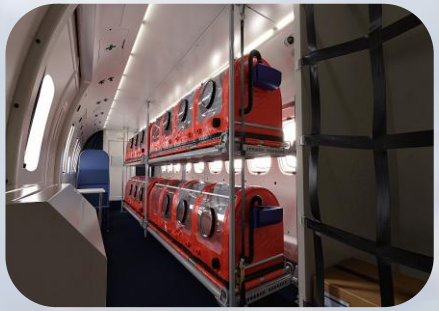
PARATROOPING KIT



6-STRETCHER AIR AMBULANCE



PATIENT ISOLATION UNIT

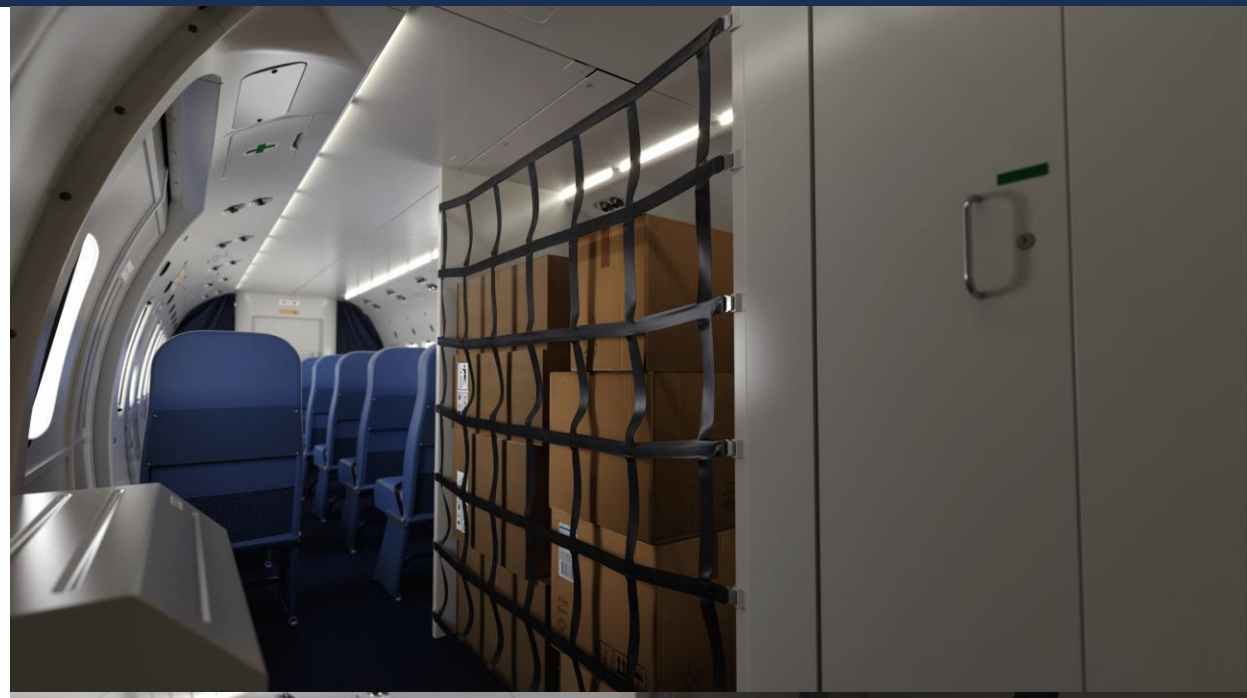


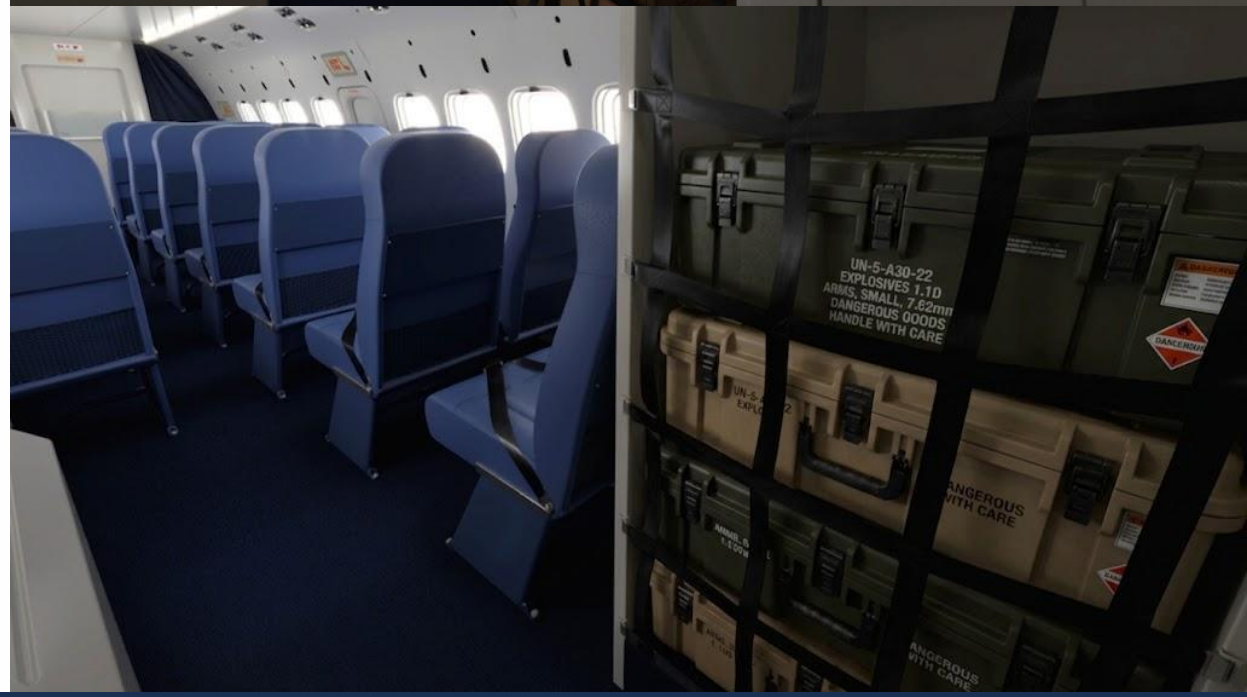
EXTENDABLE CARGO MODULE KIT PAX/CARGO

By removing of 1 or 2 last rows of seats creates unique space for various cargo loads

- This space can accommodate all types of cargo, including suitcases, weapons, and other items.

- Overall, Cargo Capacity in configuration with standard lavatory, including Front Baggage Compartment:
  - 19 PAX – 300 Kg
  - 17 PAX – 515 Kg
  - 15 PAX – 630 Kg





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AIR AMBULANCE ICU CONFIGURATION

Equipped with 1 or 2 special stretchers for transport of heavily injured and unstable patients

- **Defibrillator**

Immediate cardiac emergency response

- **Blood Pressure Monitor**

Rapid and continuous vital-sign assessment

- **2x Stretchers**

Safe and efficient patient transport

- **Pulmonary Ventilation**

Equipment for assisted respiratory support



FLYING MEDICAL CLINIC

Provision of medical care in hard-to-reach destinations and remote areas



DENTAL CLINIC

RADIOLOGY CLINIC

EYE-SIGHT CLINIC

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SPECIAL CONFIGURAION CLOUD-SEEDING

Application

- Cloud-seeding chemical treatment
- Agriculture
- Oil spill cleanup
- Additional space for operators
- Cloud-seeding aperture plus funnel



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SPECIAL CONFIGURAION AGRICULTURAL APPLICATIONS

Wide use of the platform in agricultural environment

- Crop-Spray System
- Chemical Treatment
- Aerial Works
- Oil Spill Cleanup
- Ability of STOL operations



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SPECIAL CONFIGURAION

MPA

- Versatile mission portfolio
- Civil and Defense operations
- Embedded Aerial Observation System

Mission Profiles

- Search & Rescue (SAR)
- Airborne Situational Awareness
- Illegal Fishery Control
- Border Patrolling and Ship Traffic Monitoring
- Dropping Operations





Electro Optical



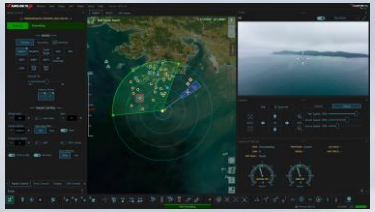
Infra Red



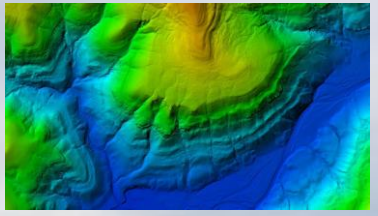
SAR Visual



AIS MONITORING

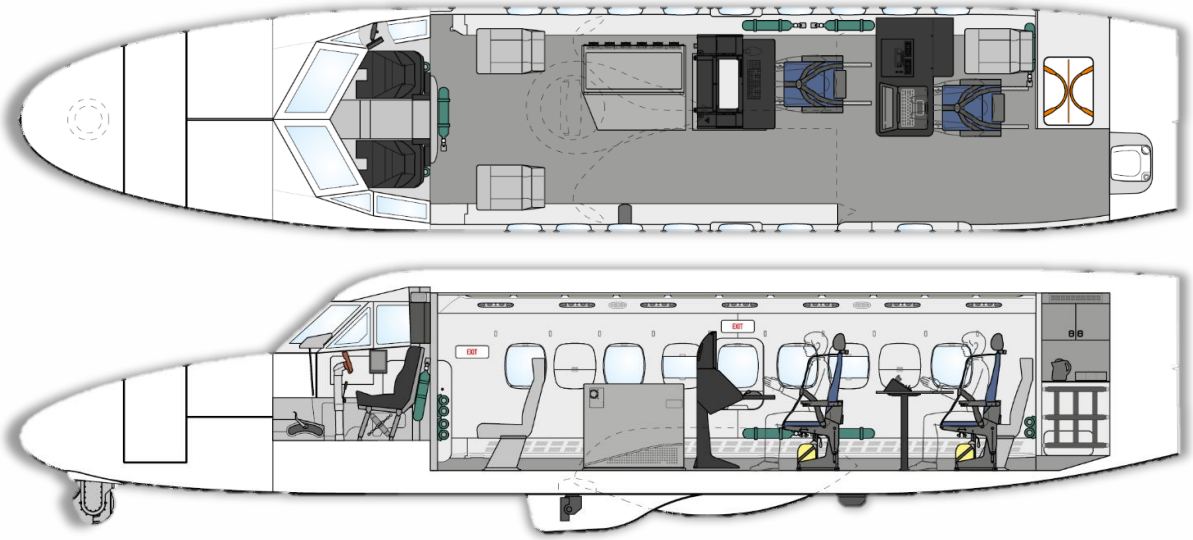


Radar



Multispectral Mapping

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SPECIAL CONFIGURAION

ISR

Intelligence

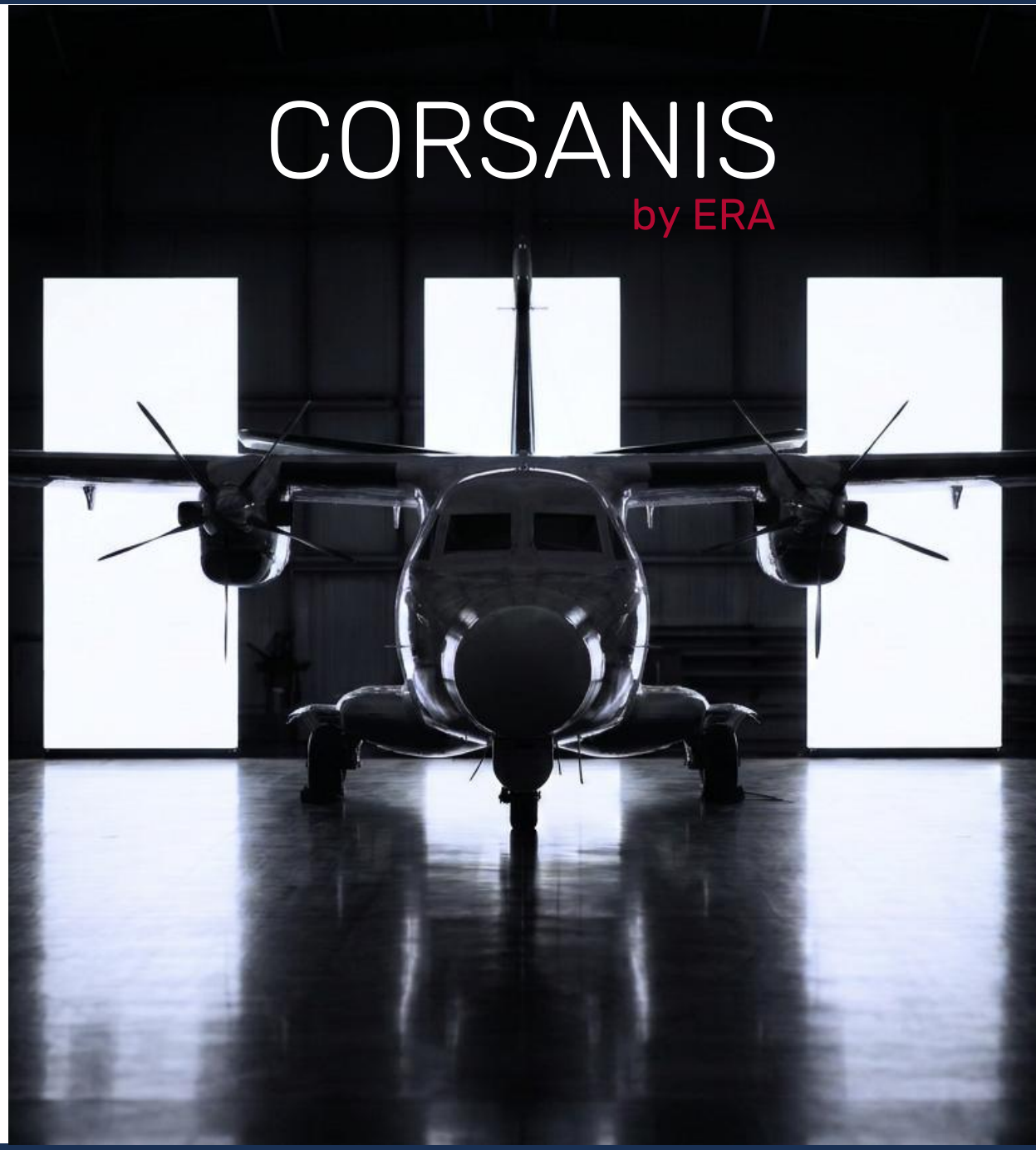
- Wide-Area Threat Detection and Tracking
- Thread Evaluation, Anomaly Detection

Surveillance

- Building Multi Domain Intelligence Knowledge of Targets
- Thread Monitoring, Multi-Spectral Target Observation

Reconnaissance

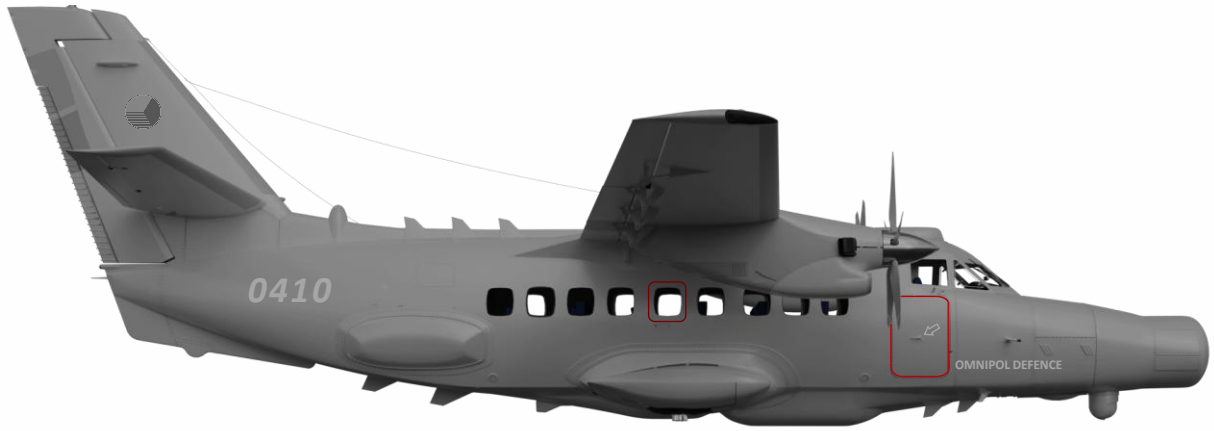
- ESM (COMINT, ELINT)
- Building a Persistent Knowledge Base of Electromagnetic Threats



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ISR CONFIGURATION

Intelligence, Surveillance & Reconnaissance



Mission Profiles

Operational, Tactical & Strategic missions, Threat Detection and tracking,

Electronic Reconnaissance and Warfare, Border Protection

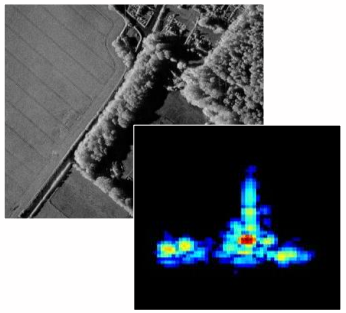
SURVEILLANCE

- Wide-Area Threat Detection and Tracking
- Perimeter Intrusion Detection
- Support to Operations



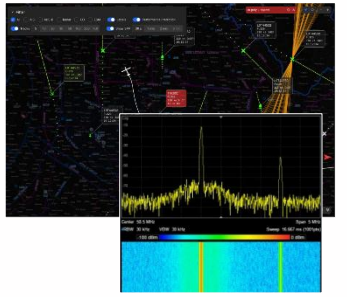
INTELLIGENCE

- Building Multi Domain Intelligence Knowledge of Targets and the Operational Environment
- Multi-Spectral Target Observation



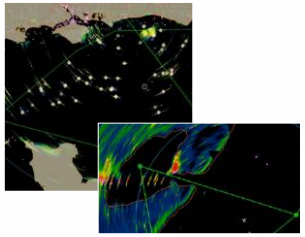
ESM (COMINT, ELINT)

- Building a Persistent Knowledge Base of Electromagnetic Threats
- Enhancing Sensor Readiness Against Threats



ELECTRONIC WARFARE

- Fused Intelligence from Multiple Sensors and Domains
- Anticipate Threats and Adversary Actions
- Support Intelligence-Driven Operational Planning



MARITIME & BORDER PATROLLING



DISPERSED OPERATIONS



PARATROOPING OPERATIONS







PATIENT ISOLATION UNIT



THANK YOU FOR YOUR ATTENTION

