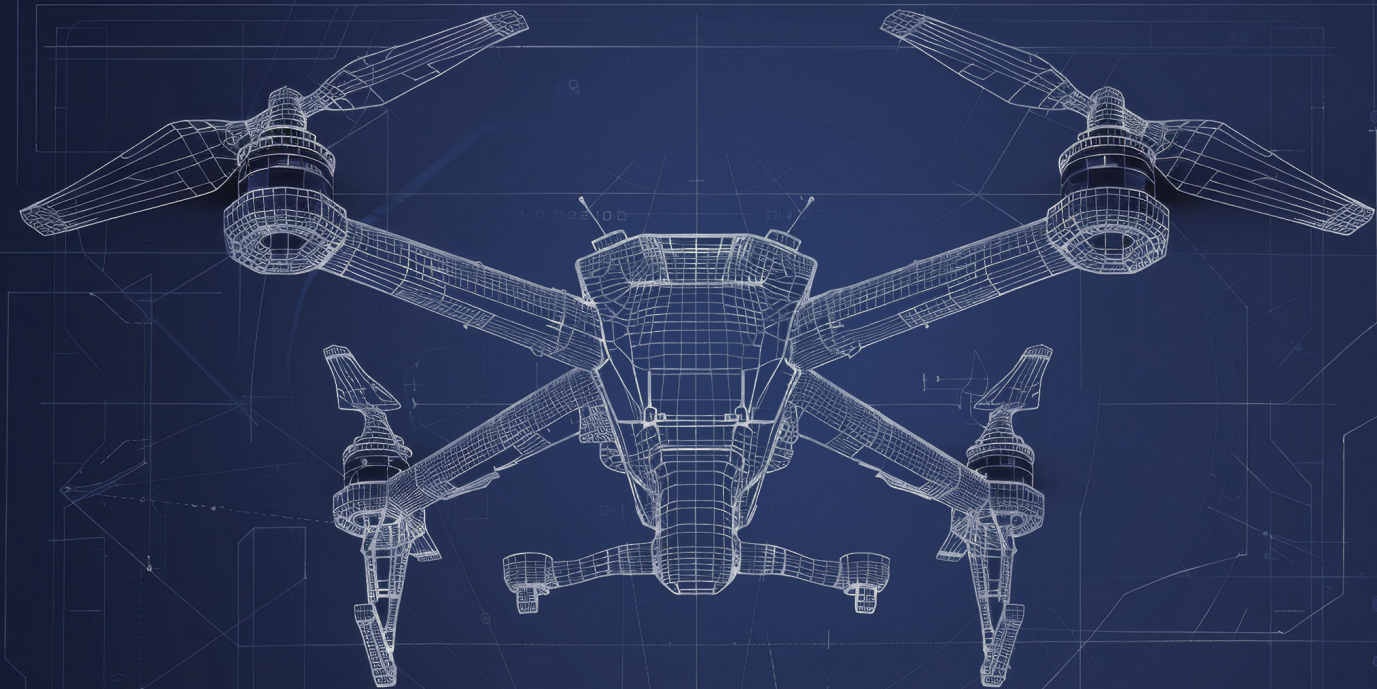




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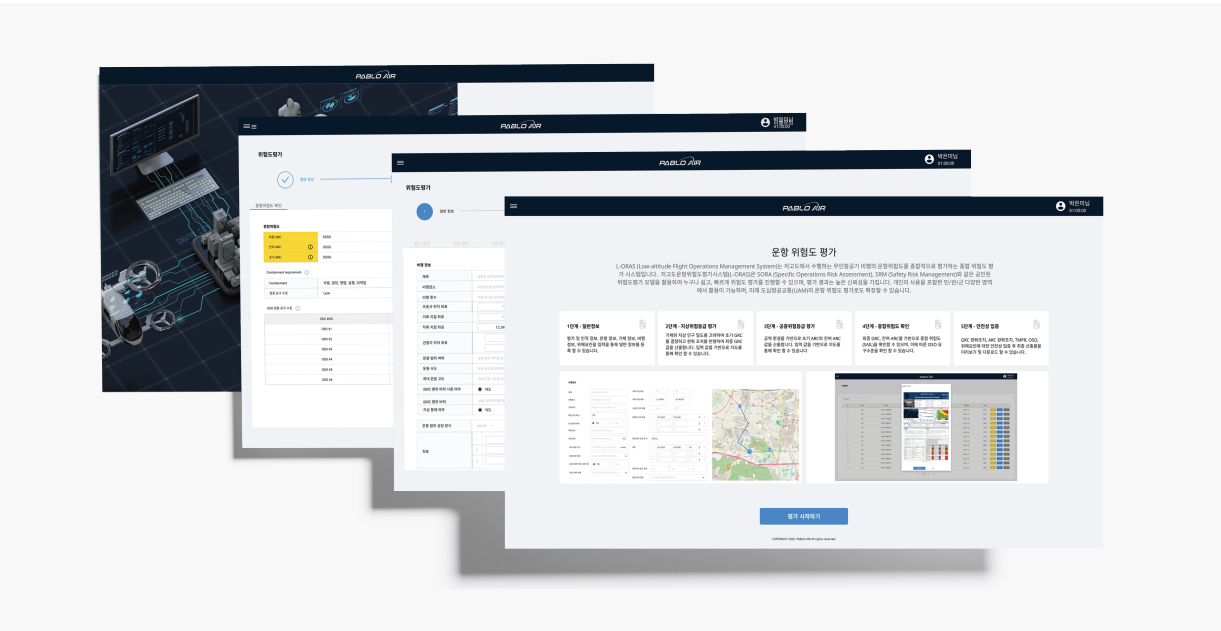
# L-ORAS

Low-Altitude Flight Operations Risk Assessment System

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## Low-altitude Operations Risk Assessment System

L-ORAS evaluates and analyzes the operational risk of low-altitude unmanned aerial vehicles (UAVs) by applying accredited assessment models (EASA SORA, FAA SRM). With its user-friendly design, anyone can quickly and easily evaluate flight safety without needing expert knowledge. By identifying potential risks before flight, L-ORAS helps ensure safer and more reliable flights.



## Why Is It Necessary?

01

Ensuring Flight Safety

Comprehensive risk assessment and hazard analysis before flight to enhance operational safety

02

Cost and Resource Efficiency

Mitigating accident risks and optimizing societal cost efficiency through advanced preemptive risk assessment.

03

Systematic Risk Assessment

Establishing a structured and reliable evaluation framework based on internationally accredited models, including EASA SORA and FAA SRM.

04

Optimized Flight Planning

A unified system enabling streamlined aircraft and personnel management while facilitating comprehensive flight planning and risk assessment.

## L-ORAS (Low-altitude Operations Risk Assessment System) Evaluation Model

### Domestic

#### flight approval / Authorization of UAV Special Flight

UAV special flight approval & optimized flight information management for regulatory compliance in South Korea.

#### Safety Validation

Enhances flight safety through planning, risk assessment, and manual integration.

### Overseas

#### EASA SORA

Assesses operational environment, ground environment (population density), and airspace conditions for precise risk evaluation.

#### FAA SRM

Evaluates 38 hazard factors for structured risk management.

## Key features

01

Hazard Analysis

Performs self-evaluation of risk levels by assessing 38 pre-identified hazards based on their severity and frequency of occurrence.

02

Ground Risk Class Assessment

Enables systematic and reliable risk assessment using accredited models such as EASA SORA and FAA SRM.

03

Air Risk Class Assessment

The Air Risk Level Assessment evaluates operational risks by integrating national airspace data and the Korean Peninsula Digital Elevation Model (DEM).

04

Flight Planning

Flight Planning based on mission purpose, framework integrating air/ground parameters, intelligent route optimization & safety margin automation

05

Comprehensive Risk Assessment Portfolio

Integrated Risk Evaluation Report, Safety Compliance and Assurance, Mitigation Strategy Development

06

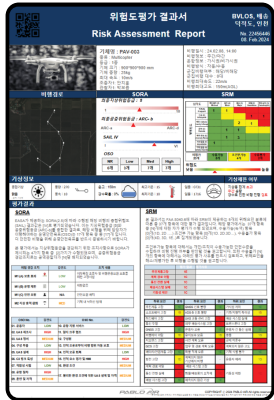
Information Management

User Management System  
Aircraft, Personnel, and Certification  
Records Activity Monitoring & Audit Logs

## Comprehensive Risk Assessment Portfolio

Low-Altitude Operations Risk Assessment System: Consolidates risk assessment results into a structured report

- General Flight Information Summary – Essential flight details overview.
- Risk Visualization – Ground and air risk levels displayed graphically.
- Enhanced Situational Awareness – Visualized classification of ground and airspace risks.
- Advanced Weather Forecasting – Up to 14-day forecasts using Korea Meteorological
- Administration data. Regulatory Compliance & Safety Assurance – Consolidated verification of safety compliance.



## Expected Use Cases

### Commercial and Service Applications

- Insurance Providers
- Delivery Drone Operations
- Drone Light Shows

### Public Sector, Research, and Policy Development

- Air Route and Airspace Corridor Design
- Ultra-Light Aerial Vehicle Operators
- Government and Research Institutions

### Advanced Air Mobility and Military Operations

- Military UAV Operations
- Urban Low-Altitude Flight Planning
- Urban Air Mobility (UAM) Operations