



WINDCUBE⁺

400S-AT

Aviation Lidar

Wind shear



Leosphere, worldwide leader in atmospheric Lidars, offers reliable solutions for mitigation of wind hazards at airports

Wind shear detection in airports: a major concern for pilots and controllers

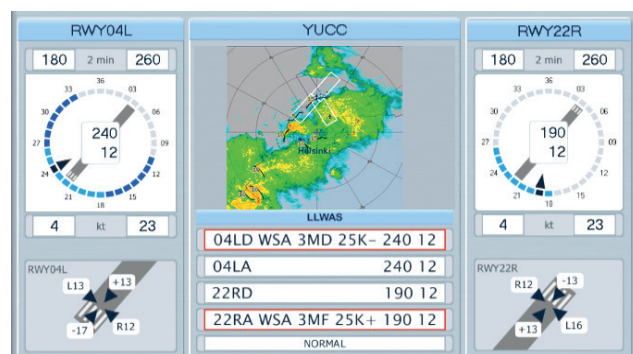
- Adverse weather represents one of the major causes of accidents during take-off and landing phases,
- Wind shears involving headwind or tailwind changes of 15 knots or more have been identified by ICAO as a serious danger which could adversely affect aircraft's lift and air traffic operations (go-around, delays, rerouting)

Windcube: an ICAO-compliant turnkey solution

- Real-time detection of wind shear with an **automatic alert generation** for air traffic controllers
- Help weather forecasters to establish **warnings** with a regional 3D wind and wind shear mapping
- **Complementary sensor to X-Band radars** for an all-weather wind shear detection solution

Key Features

- Next generation industrial-grade Lidar systems
- Very compact and robust system
- Cost-effective and low-maintenance technology
- Local dedicated services for maximum uptime
- Compatible with AWOS



IRIS software with its interface for the generation of wind shear alerts

For more information

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Wake turbulence



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Air traffic growth requires to optimize distance separations between aircrafts

- Air traffic is currently regulated with minimum distance separations that could certainly benefit from a more comprehensive understanding and risk mitigation of the air traffic wake vortex behaviour
- Growing interest, worldwide, in initiating operational wake turbulence programs for **optimizing runway throughput**
- New regulations to be implemented within the next years: RECAT, TBS, other WDS

Windcube enables the deployment of new wake turbulence operational concepts

- Wind and EDR assessment for preliminary opportunity analysis related to weather-dependent separation concepts
- Wake vortex data collection (detection and full characterization) for safety assessment
- Actual field monitoring of the wake vortex encounter events during safety monitoring phases
- Real-time wind monitoring along the glide to feed ATM systems
- Already in operation in Japan, Paris CDG, Hong Kong for operational use

Key Features

- From data collection campaigns to **turnkey safety cases** and permanent wind monitoring equipment
- High fidelity and accurate wind and wake vortex data, validated against aircraft information
- Industrial grade fiber optics wind Lidar, proven on a fleet of more than 1000 units deployed worldwide
- Cost-effective installation and easy-to-maintain
- Compact and movable system to cover all areas of interest

