

WindCube Scan Airport Edition

VAISALA

Product Spotlight

Trusted aviation weather from cloud to ground

Get accurate, timely windshear detection and wind awareness are crucial for maintaining safety at an airport and its surroundings.

The next generation WindCube® Scan Airport Edition gives air traffic controllers, pilots, meteorological observers, and forecasters best-in-class data to understand the current wind conditions and make better operational decisions.



Key benefits

Enhanced laser design: Provides accurate measurement up to a maximum distance of 18.9 km, delivering the most timely intelligence for decision-makers to mitigate wind hazards like windshear.

Exclusive lidar scans: Advanced scanning head delivers volume scans to cover 3D volumes and segment scans along an inclined plain, such as a flight glide path for safer take offs and landings.

Resistant to harsh weather conditions: Robust casing and heated scanner features allow the lidar to work in all weather conditions, including humidity, dust, ice, heavy rain and snow.

Reliable in extreme temperatures: From -40 to 55° C, the temperature range is the widest in the industry.

Reduced disruption and hands-off maintenance: Best-in-class components plus an industry-leading warranty and servicing package provide sustained top performance with continuous and timely measurements.

Why Vaisala?

For over 45 years, Vaisala has been a pioneer in aviation weather technology, ensuring that every measure is taken for unparalleled safety, efficiency, and sustainability.

Our gold standard suite of solutions is trusted in more than 170 countries and over 2000 airports globally. In fact, every commercial flight around the world will use weather observations produced by Vaisala equipment or forecasts driven by our sensor measurements at some point in their journey.

With a commitment to constantly evolving our portfolio, Vaisala remains at the forefront of the industry, continuously exploring new horizons.

WindCube Scan Airport Edition raises the bar for detecting windshear and impending severe weather events under the most extreme conditions, delivering industry-leading measurement and actionable intelligence for safe takeoffs and landings.

With its breakthrough measurement range of up to 18.9km, additional scanning modes and compact, robust design coupled with an industry-leading maintenance and servicing package, WindCube Scan Airport Edition is an unattended solution ideally suited for any airport environment.

WindCube®: The gold standard

WindCube is the iconic and trusted gold standard in wind lidar. The turnkey product suite offers innovative, reliable, and highly accurate solutions for thousands of customers across the globe. Borne from a passion to advance the field, WindCube continues to take aviation safety and efficiency ever higher through a commitment to four guiding principles:

- Trustworthy, superior metrology
- Unrivaled thought leadership
- Innovative lidars from a one-stop shop
- Easy, reliable global solution

WindCube Scan Airport Edition is a versatile device that can be deployed either in standalone for windshear hazards detection, wake vortex assessment, or in combination with other weather sensors as part of the comprehensive Vaisala AviMet® Windshear Alert System.

