IRIS Focus for Aviation

Product Spotlight

Providing trusted aviation weather from cloud to ground

Scalable, modern remote sensing software for complete situational awareness at the airport and beyond

Extreme weather is growing in frequency and intensity with climate change, making it more challenging and more important to understand and anticipate weather hazards. Air traffic controllers, meteorological observers and other airport decision makers need to make fast, well-informed decisions with the ability to quickly analyze detailed weather data and generate real-time weather alerts.

Key benefits

Web-based interface for visualizing data at high resolution for detailed and complete weather awareness.

Interactive real-time weather analysis tools for processing data, generating weather alerts and nowcasting.

Easy-to-configure events and alerts save time and support fast, accurate decisions.

Cyber security tested and audited to the latest industry standards.

Interactive tutorials, in-context help and tool tips provide additional assistance and shorten training time.

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.

With Vaisala IRIS Focus, you gain a superior understanding of storms, windshear and turbulence for safe and efficient take-offs and landings. IRIS Focus combines data from remote sensors including weather radar, wind lidar, lightning precision networks and other data sources like satellites to provide an interactive visualization of weather data.

Easy to use and share with uncompromising data security, the web-based interface includes storm tracking, nowcasting, and cross-section tools for a better understanding of storm movement and structure. Integrated decision support saves time with real-time monitoring, automated weather hazard detection, and customized alerts for a specified geographical area such as the airport, terminal maneuvering area, and beyond.

IRIS Focus brings you more of the insights you need to make effective decisions

· Windshear detection and alerting along approach and takeoff paths based on weather radar and wind lidar data
· Turbulence feature characterizes turbulence using wind lidar data and assesses severity of low-level turbulence — important for many airports in cities and close to complex topography like mountains
· Characterization of many types of weather hazards and weather conditions thanks to the set of analysis tools and products available
· Nowcasting feature indicates upcoming weather hazards and lightning storms up to 2 hours ahead
· Fully-configurable weather events and alerts based on multiple criteria that can be applied for each remote sensor and notified to operational users through email, SMS and Alert API