

Weather Radar WRS300 for aviation

Cutting-edge C-band radar technology for actionable weather information at and around the airport



Key benefits

Minimize downtime with simple deployment and low maintenance

Remote operation and automatic and continuous calibration reduce the need for site visits, labor or runway closures. Simple deployment offers simple site selection with quick and easy installation, plus integration into existing networks, Vaisala AviMet AWOS or airport weather systems.

Cover large areas in high resolution with a compact design

Compact hardware design and built-in redundancy with no consumables provides the most sensitivity to deliver exceptional accuracy at minimized life cycle cost. The modern solid state weather radar delivers more precise, higher resolution weather information—even differentiating snow, hail, sleet, graupel, and rain—crucial for safe and efficient vectoring/flight planning and windshear detection.

Get low lifetime costs with no surprises

From delivery to management and through the end of life, easy installation and calibration ensures no surprises and low lifetime cost for any airport. Built to work 24/7 in high altitude, standing up to structural icing, dust, wind, power outages, and other demanding conditions.

Focus on the weather, not maintenance

High-resolution intelligence is secured by Vaisala's patented technologies. Remote operation and automatic and continuous calibration reduce the need for site visits, labor and hands-on time required.

The future of weather radar design is here. And it's Solid.

Having access to accurate and timely weather information is crucial for safe and efficient airport operations and to mitigate the impact of adverse weather.

The newest addition to Vaisala's solid state radar family, Vaisala Weather Radar WRS300 leverages cutting edge technology to provide large area coverage and exceptional accuracy in a compact, low-maintenance package. The result is improved assessment, prediction, and preparation of adverse weather, such as thunderstorms and windshear, at and around the airport.

Simple deployment enables streamlined site selection with quick and easy installation, plus integration into existing networks, Vaisala AviMet AWOS or airport weather systems. The WRS300 offers comprehensive coverage with fully-integrated and optimized radar networks.

Our commitment to solid state technology, compact architecture, and built-in redundancy with no consumables provides the most sensitivity to deliver exceptional accuracy at optimized life cycle cost.

Key features

- **24/7 reliability in any environment** from temperature and humidity to high altitudes, structural icing, dust, wind, power outages, and more.
- **Simplified structure** requires no RF rotary joints, waveguide switches or site-specific parts. This enables increased data quality, reliability and lower costs.
- **No need for a large equipment room** so site construction work is less extensive, with less maintenance and costs. Can also be located at a central site or server room.
- **Ease of integration** specifically designed to seamlessly integrate with Vaisala IRIS Remote Sensing Software.
- **Low life cycle costs of SSPA transmitters** without the need to replace expensive consumable parts, unlike tube based transmitters.
- **World-class pedestal** enables fast and stable antenna control to ensure high accuracy.

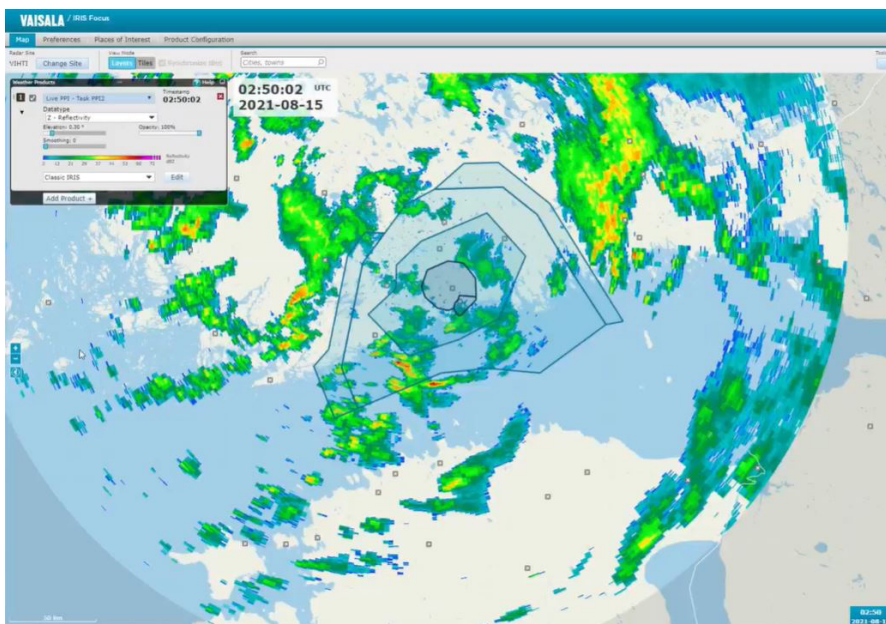


Why Vaisala?

We believe in the relentless pursuit of quality and performance, anywhere and everywhere.

Vaisala is the most experienced aviation weather company in the world, with a suite of solutions built on more than 45 years of aviation expertise that are trusted in more than 170 countries from the Nordics to Africa, the Americas and Asia, with options to fit the needs of any airport system.

Look to Vaisala for dependable support, project capabilities, and training so you can get the most from your solution. With decades of experience providing the best technologies and the finest support, our philosophy of partnership is unmatched in the industry.



Trusted aviation weather from cloud to ground

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