Ceilometer CL31 and CL51 for Meteorology

Automated backscatter profiling captures detailed measurements on cloud base height and vertical visibility for multiple cloud layers — even in harsh conditions.

ACCURACY IN ALL CONDITIONS

FULLY AUTOMATED, 24/7 OPERATION

EXCEPTIONAL DETECTION

RELIABILITY FROM GROUND UP

AFFORDABLE OWNERSHIP

Accuracy in all conditions

Vaisala ceilometers accurately measure ceiling or base height of cloud layers, and they leverage pulsed diode lidar technology and single lens optics. They are engineered to deliver highly accurate data on multiple cloud layers even when conditions limit physical visibility.

The CL31 model detects three cloud layers simultaneously to a range of 7.6 km (25,000 ft) and generates a full scope of measurements including precise assessment of inversion layers and nocturnal stable layers below 200 meters (650 ft).

The CL51 model is designed for high-range, cirrus cloud height profiling that also includes detailed data on low and middle layer clouds as well as vertical visibility. It has a detection range up to 15 km (49,200 ft).

Resources

Product Spotlight

Ceilometer CL31

Capture accurate, reliable cloud base height, and vertical visibility data on multiple cloud layers to 25,000 feet (7.6 km).

Download PDF

Product Spotlight

Ceilometer CL51

Explore high-range cirrus cloud height detection with a range up to 15 km (49,200 ft).

Download PDF

Industry Applications

General CL31 & CL51 Information

Get to know Ceilometers CL31 and CL51 and how they deliver fast, accurate cloud and visibility detection for a range of applications.

Learn more

Aviation Applications

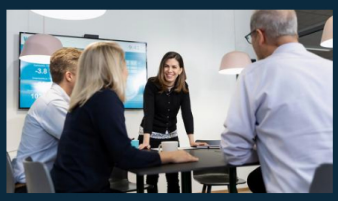
Dramatically improve airport operations, flight safety, and operational continuity with full atmospheric awareness.

Learn more

Urban & Industrial Systems Applications

Enable full situational awareness and improved decision-making today's urban and industrial settings.

Learn more



Get started with Ceilometer CL Series today

Contact Vaisala to learn how you can tackle the specific challenges of cloud height and mixing layer height measurement – especially for low clouds and low inversion layers, precipitation, and fog. Get comprehensive, actionable understanding of meteorological conditions, exactly when you need it.

Contact us

Did you find the information you were looking for?

Fully informed, thanks! | This was useful | I still have questions | Not helpful | Contact me, please