

CL61 Lidar Ceilometer With Depolarization

Product Spotlight

Providing trusted weather observations for a sustainable future

The Vaisala CL61 ceilometer fills the gap between research instruments and ceilometers.

With today's changing climate, high-quality vertical profiling data provides the insights needed to improve Numerical Weather Prediction (NWP) models, understand icing conditions and track particles such as smoke, volcanic ash or sand plumes.



Key benefits

Depolarization measurement provides differentiation of liquid and solid particles.

Enhanced optical system enables ultrapure profiles that reveal more atmospheric details.

Includes single lens technology to ensure excellent measurements, even at low altitudes.

A patented innovation of narrow banded transmitter technology removes the water vapor absorption effect.

Equipped with traceable factory calibration to ensure reliable measurement

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala provides trusted weather observations for a sustainable future. With over 85 years of experience and customers in 170+ countries, from the North and South Poles to Mars, we help provide the most reliable and accurate weather and climate information for better and safer daily lives.

Our instruments and intelligence are known as the gold standard for precision and reliability. As a sustainability leader we enable meteorology professionals to better understand, forecast and explain climate change. We continue to channel our curiosity into climate action and new ways of enabling a better planet for all.

Work smarter with vertical profiling to get more detailed atmospheric data and insights than ever before from your operational network.

The Vaisala CL61 ceilometer is a first-of-its kind technology that offers more than standard ceilometer reporting. This high-end lidar ceilometer features depolarization profiles, providing additional data including particle differentiation for greater situational awareness. Depolarization measurement enables accurate liquid and frozen differentiation as well as detection of dust and volcanic ash layers. The data can be used in multiple applications ranging from NWP modelling and verification to nowcasting for safer air travel and operation.

The CL61 also features enhanced single-lens optics which significantly improve signal-to-noise ratio to provide high-resolution backscatter profiles – all in a cost-efficient design.

Expertise means quality

Thousands of Vaisala ceilometers are installed in over 110 countries.

Today's meteorological networks need to work harder and provide more data – accurately and reliably. Vaisala has developed the CL61 with these requirements in mind and much more, raising the standard for high-performance ceilometers that provide real-time actionable information and greater insight.

The flexible and cost-effective CL61 ceilometer puts research grade performance in the hands of decision makers in weather, aviation, air quality management and research institutes. The device allows you to build a network of instruments or integrate it into existing networks.

