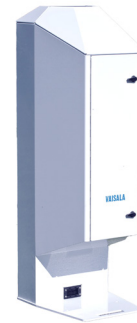


Ceilometer CL61 with depolarization

Lidar based atmospheric measurement with vertical profiling for detailed data and insights



Key benefits

Cost effective, research grade performance

Get accurate boundary layer measurement and detection of dust, sand, smoke and volcanic ash layers in a simple, affordable package — 24/7 in all weather conditions

Saves time and costs

Virtually maintenance-free with no consumable parts, remote monitoring, automated basic maintenance and troubleshooting, plus professional software security

Easy to install and integrate

From box to operation in less than an hour, with easy connectivity and integration with existing Vaisala ceilometer footprints

Backed by the weather industry experts

Provides peace of mind with Vaisala expertise and global support, based on 80 years of fact-based observation and proven field testing

With today's changing climate, environmental protection agencies (EPAs) need detailed information on air quality conditions. High-quality profiling data provides the insights needed to assess and communicate forecast air quality conditions. Accurate forecast information can help the public avoid air pollution peak times and hot spots.

Get more detailed atmospheric data and insights than ever before. 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 capability, providing refined profiling data on mixing layer altitude and composition plus aerosol characterization. EPAs can use the data to inform and forecast air quality conditions for greater public awareness.

The CL61 provides accurate boundary layer measurement and detects smoke, dust and volcanic ash layers. The CL61 includes innovative features such as single-lens optics so it can reliably detect low-altitude phenomena such as clouds and shallow aerosol layers — all in a cost-efficient design.

Expertise means quality

Thousands of Vaisala ceilometers are installed in over 110 countries.



Why Vaisala?

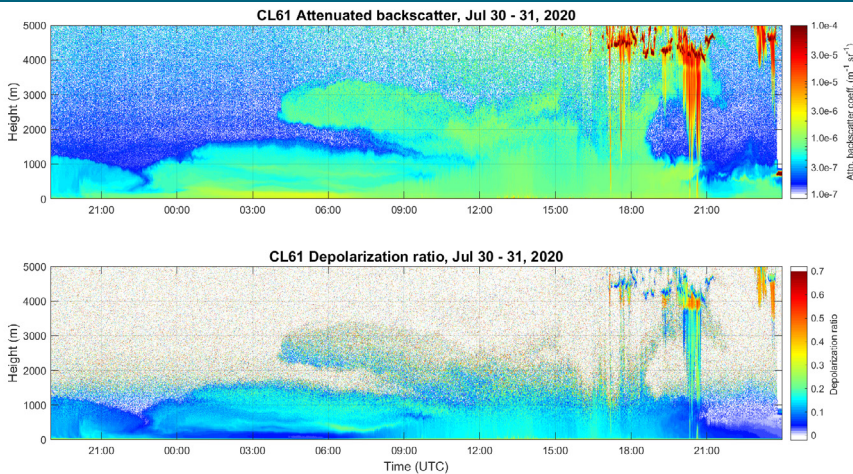
Expertise and innovation

We believe in the relentless pursuit of quality and performance, anywhere and everywhere. Count on a dedicated partner with 80+ years of experience, customers in more than 170 countries, a presence at the North and South poles, and with NASA on Mars.

Through innovation, continual industry investment, and an innate curiosity, Vaisala strives to produce high-quality and dependable weather and air quality measuring solutions that provide observations for a better world.

Dependable support

Look to Vaisala for customized support, training and project management so you can get the most from your equipment. With decades of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.



Event: aerosol layers aloft at Vantaa, Finland (July 30-31, 2020)

This image shows profile data plotted in time-height domain. The upper figure is the attenuated backscatter signal; color indicates the intensity of the signal. The lower figure is the depolarization ratio from the same time; colors indicate depolarization ratio value.

Key features

- Enhanced optical system enables ultrapure profiles that reveal more atmospheric details
- Depolarization measurement provides differentiation of liquid and solid particles
- Single lens technology ensures excellent measurement, even at low altitudes
- Traceable factory calibration to ensure reliable measurement

Today's atmospheric weather 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 air quality management, weather and many others.

VAISALA

vaisala.com



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