

Ceilometer CL61 for Aviation

VAISALA

Product Spotlight

Trusted aviation weather from cloud to ground

Enjoy comprehensive measurement of volcanic ash, icing and more for safer aviation operations.

Get comprehensive profiling data 24/7—even in the harshest weather conditions—that goes beyond standard cloud height measurements to help airports and airlines operate with greater safety.



Key benefits

Comprehensive data reporting including cloud base height, depth and penetration, precipitation and fog, sky condition, attenuated backscatter profile, parallel and cross-polarized profiles, and depolarization ratio profile.

Depolarization measurement for accurate liquid/frozen differentiation including icing conditions such as freezing rain / drizzle and supercooled liquid layers, plus the detection of dust, sand and volcanic ash layers.

High-resolution, ultrapure backscatter profiles for best-in-class signal-to-noise ratio.

Single lens technology ensures excellent measurement, even at low altitudes.

Rugged design for performance in all weather conditions with no consumable parts, extensive self-diagnostics and automatic troubleshooting aids.

Traceable factory calibration for accurate time of flight factory calibration.

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

The Vaisala Ceilometer CL61 provides insight on specific conditions such as icing, dust and volcanic ash as well as the melting layer for better situational awareness. This high-end lidar ceilometer features depolarization profiles, providing additional data which enables accurate liquid / frozen differentiation plus detection of atmospheric particles – all of which are critical for aviation safety.

The CL61 offers constant, reliable data including hard-to-identify conditions. New advanced processing with single-lens optics significantly improves signal-to-noise ratio for the highest-resolution backscatter profiles, all in a cost-efficient design. Understand local conditions fast with Vaisala BL-View, which provides an online visualization of vertical profiles.

Expertise means quality.

Thousands of Vaisala ceilometers are installed in over 110 countries.

