Vaisala Global Lightning Detection Network GLD360

Most accurate and dependable lightning detection across every country and ocean

Vaisala Global Lightning Detection Network GLD360 delivers reliable lightning data for warning applications, so you can balance operational efficiency with employee and public safety anywhere in the world. GLD360 data is trusted by meteorological, governmental, and commercial entities that really understand lightning and recognize the importance of data quality on their activities.

Vaisala GLD360 offers unmatched detection efficiency and industry-leading location accuracy from a global sensor network that can detect thunderstorms, track their trajectory and intensity, and support hazardous weather warnings — even outside the range of radars. The GLD360 network is a single network of sensors, designed to provide uninterrupted global coverage, that detects lightning wherever it occurs on land or sea and makes that data available in real time. For meteorological and commercial organizations that need to incorporate thunderstorm data into their daily operations, it provides excellent quality and consistent information for local, national, and global applications.

Key benefits

Available today with no capital costs
Get almost immediate access to GLD360 real-time data without having to purchase, install, or maintain any sensor equipment or processing systems.

Smarter decision-making
GLD360 delivers reliable lightning data you can trust, because your people and your operations depend on it.

Greater safety while minimizing downtime
Early warnings allow you to better anticipate a lightning threat before it reaches your location and helps you keep workers safe while reducing the length of safety shutdowns.

Lightning coverage when it matters most
Standardization across all user facilities results in the highest quality lightning data anywhere in the world, which is available better than 99.99% of the time.

Global Lightning Detection Network at a glance

Applications

- Implementing standardized lightning safety procedures in a single location or across global facilities to optimize safety and operational efficiency.
- Providing instant access to the highest quality real-time lightning data for any national meteorological agency, in any country.
- Establishing an early warning system to alert people about hazardous weather conditions and lightning.
- Providing critical information for electric power transmission companies to prepare for storm events, to support system reliability.
- Delivering data for meteorological applications, hazardous weather forecasting, and emergency management.

Key features

A single source for global coverage that captures lightning and storm data for even the most remote locations on land or on sea and lets you access it when and where you need it.

Flexible, fast data delivery that can be available in real time (~30-second latency).

Industry-leading performance in detecting all thunderstorms with unmatched cloud and cloud-to-ground flash detection efficiency and location accuracy.

Comprehensive, actionable data that can be utilized to make well-informed operational safety decisions, as well as to support forecast and meteorological applications.

Why Vaisala?

The industry standard in global lightning data

Vaisala delivers the most accurate real-time and historical lightning data in the world and is trusted by U.S. federal agencies, national meteorological agencies, and commercial safety operations across the planet. Fed by a global array of advanced lightning sensors, Vaisala captures lightning events for nearly any location in the world — including oceans, mountain peaks, and other areas not typically covered by radar.

Support and services you can count on

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

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www.vaisala.com/lightning

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