

## Vaisala Global Lightning Detection Network (GLD360)

The most accurate and dependable lightning detection covering every country and ocean



### 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 onshore and offshore lightning data you can trust and that your people and your operations can depend on.

#### Greater safety while minimizing downtime

Improved early warnings let you better anticipate lightning threats and know sooner when it's safe to resume operations.

#### Lightning coverage when it matters most

Standardization across all user operations results in the highest quality lightning data anywhere in the world, which is available better than 99.99% of the time.

Vaisala Global Lightning Detection Network (GLD360) delivers the most reliable, near-real-time lightning data to feed warning applications and storm monitoring software for maritime applications. GLD360 provides accurate onshore and offshore lightning data that makes operational safety, route planning, and port closure decisions a lot easier. It's the information that anyone operating under maritime conditions needs — right when they need it — to make well-informed, critical decisions.

The Vaisala GLD360 network is a single network of sensors, designed to provide uninterrupted global coverage, that detects lightning wherever it occurs on land or sea. Its unmatched detection efficiency and industry-leading location accuracy from a global sensor network can detect thunderstorms, track their trajectory and intensity, and support hazardous weather warnings — even outside the range of radars.

GLD360 provides real-time data that's compatible with most weather monitoring and storm alert systems for maritime operators and port authorities that need to incorporate thunderstorm data into their daily operations. It gives you access to precise lightning location, time, type classification including cloud versus cloud-to-ground, and other storm data without having to install or maintain a single sensor of your own.

## Global Lightning Detection Network at a glance

### Applications

- Implementing standardized lightning safety procedures at a single port or across global facilities to optimize safety and operational efficiency.
- Providing critical lightning information to enable maritime operations to prepare for storm events.
- Establishing an early warning system to alert about approaching hazardous weather and lightning.
- Monitoring precise storm movement to resume operations the minute it's safe to do so.
- Delivering ongoing, real-time data for weather monitoring, hazardous weather forecasting, route planning, and emergency management.
- Investigating lightning as the cause of property damage or fire.
- Improving situational awareness to better understand hazardous weather, specifically lightning, thunderstorms, and severe thunderstorms.
- Monitoring lightning threat in offshore rig operations and helicopter transportation.

### Key features

**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, route optimization, as well as to support forecast and meteorological applications.

**A single source for coverage** that captures detailed lightning data for even the most remote onshore and offshore locations and lets you access it when and where you need it.

## 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. Defense Forces, the National Weather Service, the Federal Aviation Administration, and commercial safety operations across the planet. Fed by a global array of advanced lightning sensors, Vaisala captures lightning events for any location in the world — including oceans, mountain peaks, and other areas not typically covered by radar. Between 2016 and the end of 2020, more than 10 billion lightning events were captured by the lightning detection networks Vaisala maintains.

### Support to 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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