Earth Networks®

Total Lightning Network®

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Often striking with little or no warning, lightning is one of the leading weather-related causes of death and injuries. Now, Earth Networks provides a revolutionary detection and alerting system to help protect people and property.

The most accurate lightning detection technology

Total Lightning Network is the new standard for lightning detection and alerting—superior to existing networks and single-node "prediction" systems.

Early warning can make the difference

Total Lightning Network incorporates patent pending systems and methods for the detection of lightning activity to provide unmatched in-cloud (IC) and cloud-to-ground (CG) detection efficiency. It is the first integrated IC and CG detection network capable of detecting long range IC lightning, which is critical for the advanced notification of severe weather phenomena such as: CG lightning strikes, heavy rain rates, high winds, hail and tornadic activity.

Alerts when and where you need them

Receive alerts to multiple locations via multiple methods—mobile devices, computers, indoor visualization tools and to outdoor mass notification alert systems. Strikes are monitored, confirmed and communicated to avoid false alarms.

Advantages of Total Lightning Network

- Avoid false alarms with the most accurate detection technology

- Unmatched network density and redundancy provides higher reliability, efficiency, enhanced lightning detection and location accuracy

- Receive customized, site-specific storm warnings

- Choose multiple delivery methods for warnings and alerts

- Advanced warning of multiple severe weather events

- 24 x 7 x 365 network monitoringand support

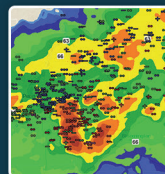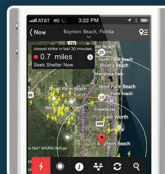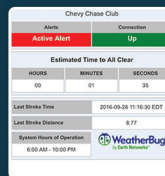# Earth Networks Improves lightning safety – *How it works*

1 DETECT
IC and CG flashes are instantly detected hundreds of miles away by your sensor and the WTLN.

2 ALERT
If flashes are within your warning zone, alerts will be sent instantly to multiple devices.

3 PROTECT
Implement safety procedures by moving people to safe locations and securing property.

Total Lightning Components

Total Lightning solutions work in conjunction with the Weather Station and adds on-site detection of in-cloud and cloud-to-ground lightning, along with alerting tools to various devices and locations.
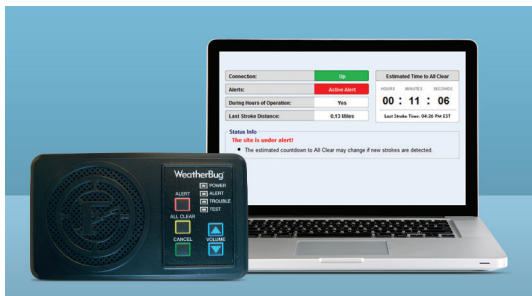
The Most Advanced Automated Warning Available
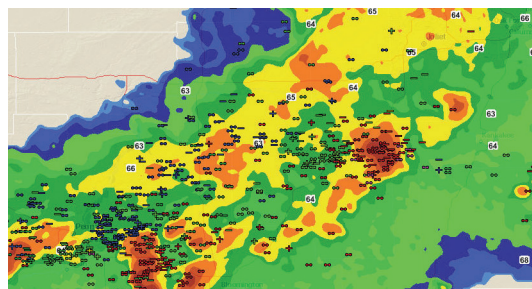

Outdoor Alerting System

Outdoor facilities can now have the first commercially available outdoor mass notification system to be integrated with in-cloud and cloud-to-ground lightning detection technology.

Designed specifically for outdoor facilities, the Outdoor Alerting System is unique in both design and function. The patented design represents a new generation in omni-directional sirens and alerting systems and the professional-grade components make it virtually maintenance free.

The system is comprised of one or more 110 dBA horn units equipped with 170,000 peak candela strobe lights—providing 360° of audio and visual coverage. High-decibel, attention-getting signals provide maximum coverage from single or multiple sites.

An indoor control unit contains a loud internal speaker with an adjustable volume level to alert personnel inside. The unit can either be wall mounted or sit on a desktop and provides manual control buttons for Alert, All Clear and Cancel. The Outdoor Alerting System also provides decision makers with a web-based interface to configure hours of operation, lightning-strike distance and an All Clear count-down timer.

The Ultimate, Web-Based Weather Visualization

StreamerRT® is a web-based application that leverages our entire Weather Network and provides the highest level of precision for tracking and analysis of lightning and severe weather. StreamerRT is powered by our proprietary network of over 10,000 weather stations. In addition, total lightning detection is integrated into StreamerRT and provides unmatched severe weather prediction and warning capabilities—helping you to Know Before®.

Alerts Sent to Phones and Computers

Alerts provide end-users advanced warning on mobile phones and computers for lightning and severe weather threats detected or when customized, pre-defined weather thresholds are exceeded.