

Your own lightning detection network

LINET systems is the lightning detection network for everybody who need their own high-precision network. It convinces with excellent cost-efficiency while maintaining its unsurpassed quality.

LINET systems obtains the high quality by intelligent antenna design and clever algorithms that result in a **location accuracy of effectively 75 m** on average as well as a homogeneous **detection efficiency of down to 2 kA**.

Another unique selling point: The patented algorithm that detects the **three-dimensional emission height** of cloud strokes. This allows for groundbreaking recognition of thunderstorm severity and enables comprehensive total lightning.

All components are designed by nowcast. After the easy set-up, only few maintenance work is necessary. The installation of the sensors in distances of 150 to 250 km guarantees a homogeneous high-quality coverage of large areas.

The high-precision lightning detection doesn't need to end at the border of your own network: Retrieving nowcast's lightning cloud service, data from the surrounding regions can be added to any existing LINET system.



The Korea Meteorological Administration (KMA) installed its own LINET lightning detection network in 2014 for the high-precision coverage of whole of South Korea.



BEST IN CLASS LIGHTNING DETECTION

LINET systems achieves proven and certified location accuracy of 75 m on average while maintaining a detection efficiency of 2 kA (95%). These values are considered the best values for long range lightning detection networks. Another unique feature is the patented three-dimensional detection ability of LINET.

THE EFFICIENCY OF LINET

nowcast's system is extremely efficient. In particular, the excellent cost-effectiveness results from the simple set-up of lightning sensors, the low requirements of the measurement site and the low maintenance expenses. Nonetheless, LINET measures like no other commercially available lightning detection system. For best measuring results, the network should contain at least 6 sensors. nowcast recommends 6 sensors per measuring surface of 100.000 km² for highest efficiency.

INCLUDED APPLICATIONS

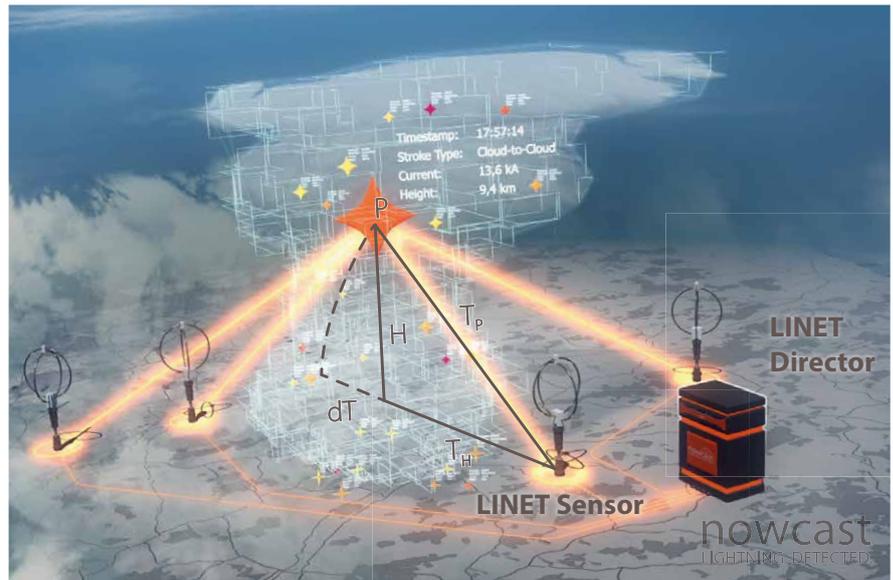
After implementing LINET systems, you will have access to powerful web applications. LINET view is the visualization software for lightning data. Detailed lightning data, alarm areas, nowcasting, statistics and more are represented on a map. LINET spot allows you to investigate the historical lightning database to verify lightning induced damages. nowcast also develops specialized software for your specific needs.

EXTENSIVE MONITORING

The health of the lightning sensors is monitored around the clock by the special LINET Management Software LMS. In addition to the display and recording of the load, availability and signal quality of the individual lightning sensors, the powerful LMS also manages, amongst other things, the analyses, reports and subsequent calculations from the raw data. In addition, the lightning sensors are regularly checked and updated via remote maintenance over the internet. LMS guarantees perfect supervision of LINET systems.

ADVANTAGES

- ▶ Three-dimensional total lightning detection for large areas
- ▶ Continuous real-time operation
- ▶ Unparalleled detection efficiency
- ▶ Unrivalled location accuracy
- ▶ Total lightning: measurement and differentiation between intra-cloud and cloud-to-ground strokes
- ▶ Three-dimensional measurement of the emission height of intra-cloud strokes (patented)
- ▶ Detection and nowcasting of thunder-cells
- ▶ Collection of thunder-cell parameters
- ▶ Simple set-up
- ▶ Highly economical operation
- ▶ Low maintenance expenses
- ▶ Easy monitoring of system
- ▶ Provision of best-in-class lightning data by leading edge technology



nowcast offers complete solutions for independent lightning detection networks, comprising all hardware and software components.

Hardware content:

- ▶ Lightning detection sensor (LINET Sensor)
- ▶ Central processor
- ▶ Electric field-mills
- ▶ Accessories for alerts, data collection and subsequent processing

Software content:

- ▶ Lightning data processing (LINET Director)
- ▶ Network management (LMS)
- ▶ Visualization of lightning data (GIS)
- ▶ Generation and display of warning, real-time and historical lightning data (LINET view, LINET spot)

WHO BENEFITS?

For **large companies or state-run institutions** that wish to operate their own lightning-detection system, LINET systems is the perfect choice. Despite economical operating expenses, LINET systems delivers the most precise and extensive lightning data obtainable with commercial networks. As of the initial operation of this self-contained lightning-detection system, the purchaser of LINET systems can optionally choose from all the other nowcast products, such as LINET view and LINET spot.

Energy suppliers who have to monitor pipelines and oil rigs in regions that are not yet covered by the standard network rely on LINET systems.

National weather services and the military often operate their own lightning-detection systems. Here too, LINET systems satisfies all the necessary requirements.

TEST OUR PRODUCTS

Experience the quality of our lightning data yourself. We would be pleased to provide you with a free trial. Contact us:

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