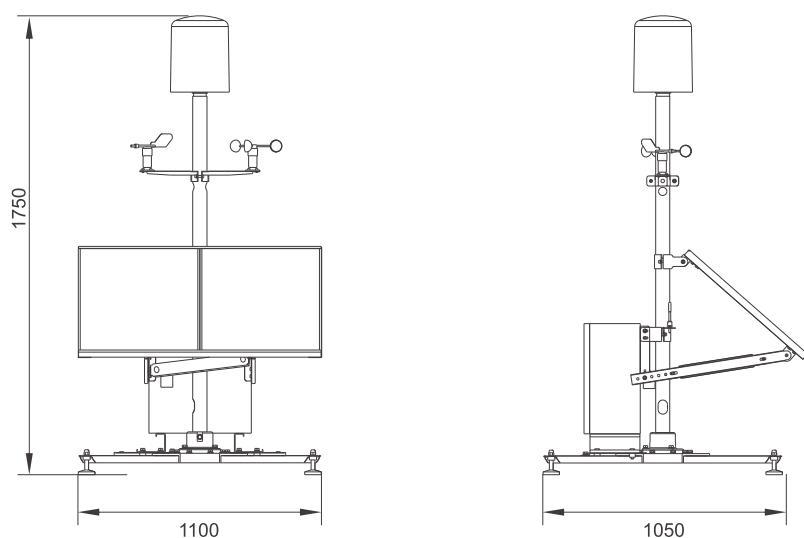
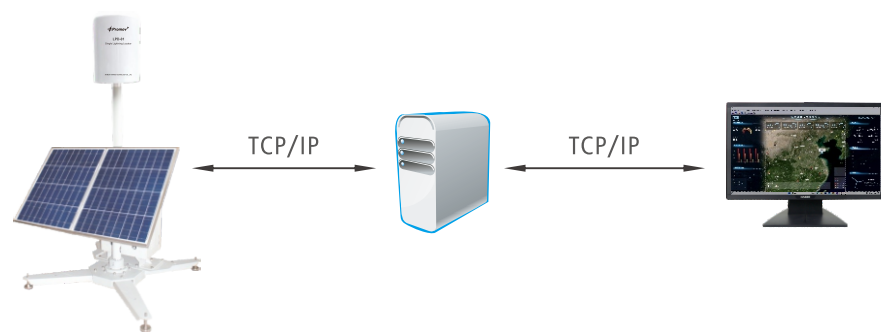


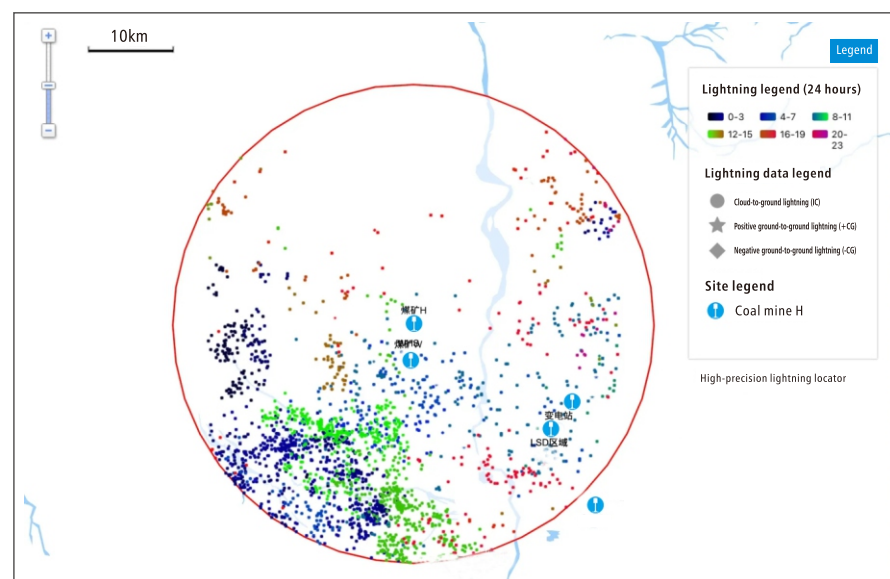
Installation Dimensions(mm)



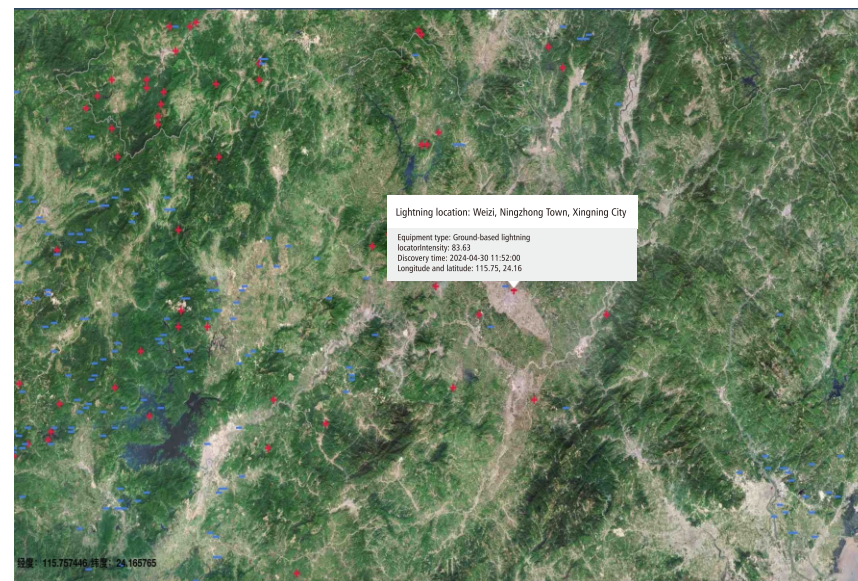
Communication Method



Lightning Scatter Distribution



Recorded Lightning Information



Record lightning location, lightning polarity, and intensity

Applications

Applications: Airports, terminal areas and ports, refueling facilities, military bases, weather bureaus.

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Promov®



LPD-01
Single Lightning
Locator

XIAMEN TAIHANG
TECHNOLOGY CO.,LTD



Single Lightning Locator

A single lightning locator is an information system that can provide effective and real-time safety decisions before a large-scale thunderstorm is released. It can detect the occurrence of thunderstorms in real time, detect the occurrence of lightning strikes in time after the first lightning strike, and transmit information to warn of danger. Lightning locators can be used for real-time monitoring of lightning information when thunderstorms occur, providing strong technical support for relevant departments to do a good job in lightning protection and disaster reduction.

The single lightning locator uses the principle of measuring environmental electromagnetic field monitoring to detect thundercloud lightning. The product can detect lightning in thunderclouds within 50 kilometers based on changes in the environmental electromagnetic field. When the electric field strength of the static field in space gradually increases and keeps changing, it indicates that lightning is likely to occur in the area. Lightning locator can help users deal with lightning in a timely manner after it occurs and reduce the losses caused by lightning strikes.

Functional Features:

- Real-time data display, with monitoring range and area marked on the map
- Real-time monitoring of lightning location
- Real-time monitoring of lightning occurrence time
- Real-time monitoring of lightning occurrence times
- Real-time monitoring of lightning intensity
- Real-time monitoring of lightning polarity

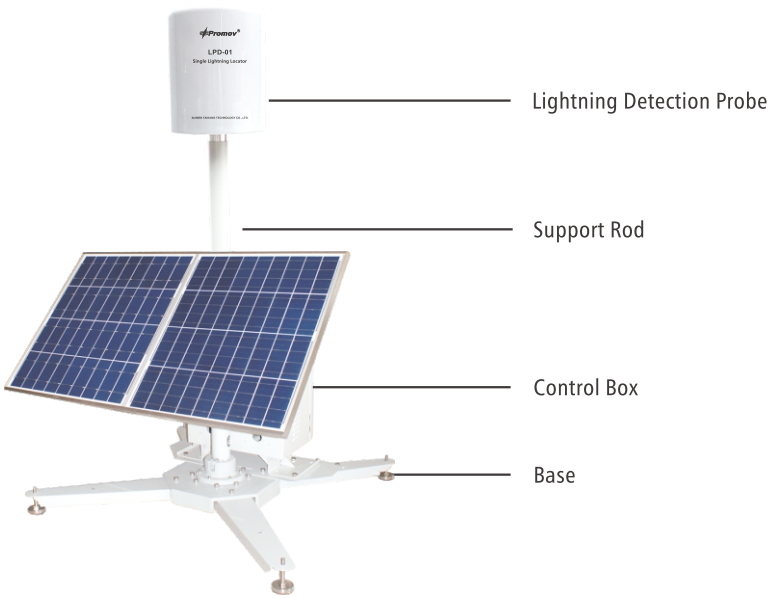
Strong Effectiveness

The automatic recognition algorithm for cloud-to-ground lightning was implemented, and the data collection and processing were completed in a short period of time. This enabled the rapid generation of high-quality data on lightning location, polarity, intensity, and occurrence time, ensuring that users can be promptly informed about lightning activity.

Display

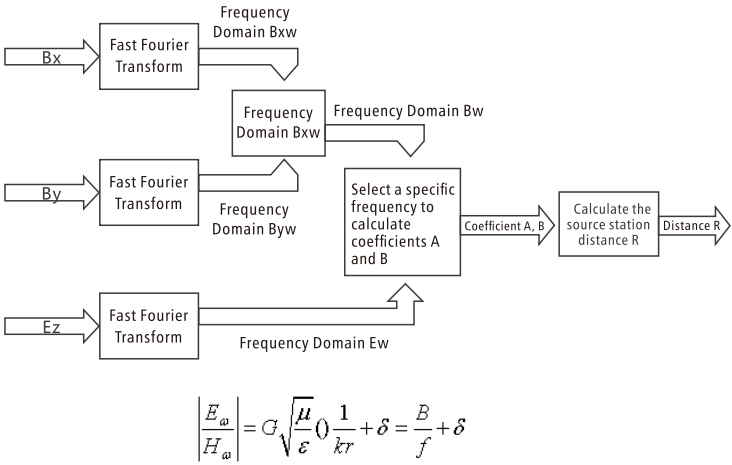
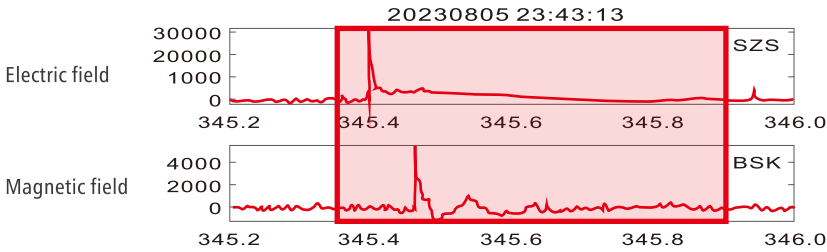
The lightning location system includes web version and mobile version.

Main Components



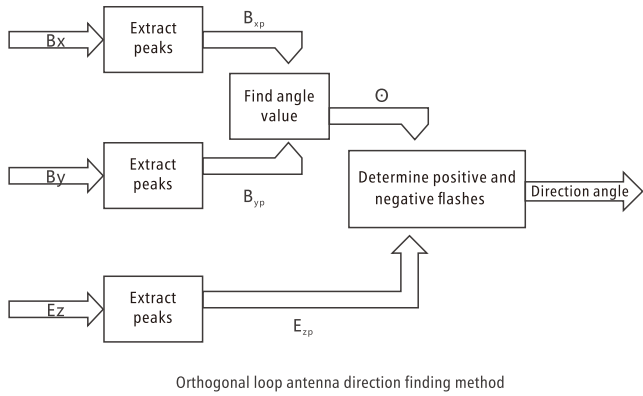
Ranging Principle

The amplitude spectrum method is used to detect the lightning distance by the amplitude ratio of electric field to magnetic field in lightning electromagnetic field varies with distance



Direction Finding Principle

The peak value is used to calculate the lightning strike azimuth. In order to avoid the lightning electromagnetic wave reflecting in the ionosphere to form an elliptically polarized wave that interferes with the direction finding, the main peak value of the ground wave is finally used to calculate the azimuth.



Specifications

Model	LPD-01
Working power supply	24VDC
Power consumption	<3W
Azimuth accuracy	<5°
Distance accuracy	<5km
Measurement range	Radius 50km
Monitoring lightning type	Cloud-to-ground (CG)
Measurement lightning information	Lightning intensity, direction, polarity, occurrence time
Lightning monitoring frequency	1 time/1s
Data storage	Local storage and data sent to cloud server storage
Communication method	Ethernet (WAN or LAN can be customized)
Number of records	Local 512
Working temperature and humidity	-40°C~+60°C; 5%RH~95%RH without condensation
Storage temperature and humidity	-40°C~+65°C; 5%RH~95%RH without condensation
Shell protection level	IP65
Dimensions (mm)	400*400*1240