BOLTEK
Lightning Detection Systems

Long Range Systems

LD-250 Lightning Detector

- ☑ **Live long range detection up to 300 miles (480km)**
- ☑ **Track Storm Movement**
- ☑ **User set alarms for Close Storm or Severe Storm alerts**
- ☑ **Portability allows detector to be connected easily to a desktop PC or Laptop's USB or Serial COM port**
- ☑ **Display software is compatible with all current Windows operating**
- ☑ **Optional Output Relay Module (RLO-10)**
- ☑ **No online or recurring fees**
- ☑ **One year parts & labor manufacturers warranty**

Operation

Boltek's LD-250 puts a live-action lightning display on your computer screen, showing storm activity up to 300 miles in all directions from your location so you can track position, speed and direction of lightning. The LD-250's direction-finding antenna measures lightning strike direction while the LD-250's receiver estimates distance from received signal strength.

Mobile Operation

With the optional GPS or Fluxgate compass, you can use the LD-250 to chase or avoid the stormin your car, truck or boat. The GPS or Fluxgate Compass works by correcting the heading when the vehicle or boat is not facing North.

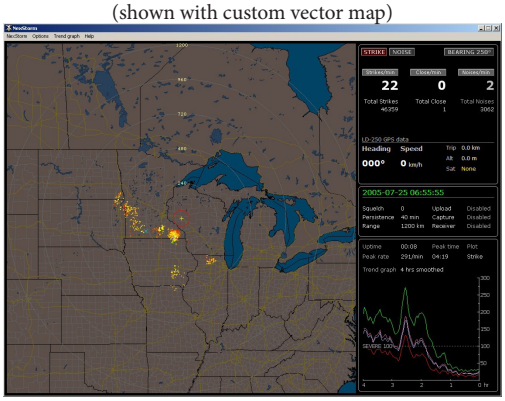
Lightning Display

LD-250 data is live! You are actually detecting the lightning strikes themselves. Strike rates, both Close Strikes / Minute and Total Strikes / Minute are shown for the previous hour on the Strike Rate Trend Graph letting you easily see if storms are increasing in severity or dying off. There are no on-line or recurring charges of any kind.

A custom vector map will allow you to zoom into the region of interest. Zoom out to the maximum range of 750 miles (1500 miles across) or zoom in as close as 15 miles to see only the nearby storms.

LD-250 Mobile Kit shown with GPS

NexStorm Lightning Display Software
(shown with custom vector map)



LD-250 Lightning Detector

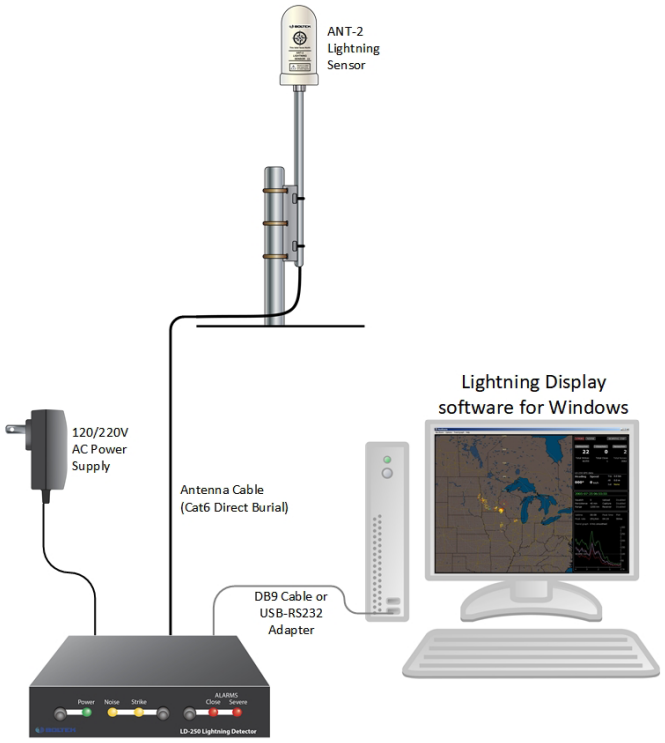
SPECIFICATIONS

Alarms	
Close Storm	1 configurable range 6 to 300+ miles (10 to 480+ km)
Severe Storm	1 configurable strike rate 10 to 990 (strikes/min)
LED Indicators	
Power (green)	On when power applied
Noise (yellow)	Flashes as noise is detected and processed by receiver
Strike (yellow)	Flashes as strike signals are received and processed by receiver
Close (red)	On when lightning is detected within Close Storm Alarm range
Severe (red)	On when Strikes per minute detected hit or exceed set amount
Software	
NexStorm Display (Full Version)	Included with Long Range Kit
Custom Vector Map	Included with Long Range Kit
NexStorm Lite Display	Free - Included with basic sensor package
StormVue NGX	Optional software for remote display
Operating System	Microsoft Windows 10, 8, 7, Vista, XP, 2000, NT
Communications	
Configuration Port	COM (RS232)
Output Data Port	RS-232
RS-232 Format	Delimited ASCII Sentences 9600 bps, 8N1
GPS /FluxGate Port	RJ11 NMEA Standard 4800 baud, 8N1
GPS Sentence	$GPRMC
FluxGate Sentence	$HCHDM
RLO-10 Optional Relay Outputs	
Strike Alert	Solid-state relay 80VDC/57VAC/2A configurable NO/NC
Severe Strike Rate Alert	Solid-state relay 80VDC/57VAC/2A configurable NO/NC
Close Storm Alert	Solid-state relay 80VDC/57VAC/2A configurable NO/NC
Power	
Connector	2.1mm/5.5mm coaxial
Voltage	11.5VDC - 14VDC
Power Consumption	4 W
Source	120VAC US plug or 120-240VAC international multi-plug wall adapter
Enclosure	
Material	Aluminum
IP Rating	20
Dimensions	4.9" x 7" x 1.1" / 123 mm x 178mm x 29mm
Environmental	
Operating Temperature	-40 to 60 C / -40 to 140 F
Operating Humidity	0 to 99% non-condensing
Agency Approvals	CE, FCC, cULus, C-tick
Warranty	1 Year
Ordering Information	
LD-250-KIT-120V-50FT	LD-250 kit for 120VAC
LD-250-KIT-220V-50FT	LD-250 kit for 220VAC
LD-250-Mobile-120V-15FT	LD-250 Mobile Kit for 220VAC
LD-250-Mobile-220V-15FT	LD-250 Mobile kit for 220VAC

Standard kit includes 50'/15m sensor cables.
Mobile kit includes 15'/4.5m sensor cables.
Additional cable lengths available on request.

LD-250 Shown with RLO-10

LD-250 CONNECTION DIAGRAM



ADVISORY USE ONLY
This equipment does not include self-test circuitry to warn of loss of functionality. Additional measures should be in place to safeguard personnel or equipment.

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