

EdgeGuard

Protection for Airfield Edge Lights During Winter Operations



Preventing Costly Damage

EdgeGuard delivers two powerful benefits to airfield snow removal operators:

1. Real-time awareness – Provides clear visualization and proximity alerts showing how close the plow or blower is to airfield edge lights.
2. Precision offset control – Enables operators to maintain a consistent, customizable offset between the plow blade and edge lights, ensuring snow is placed at the optimal distance for safe and effective blower operations.

By combining precise GPS positioning with configurable offset parameters, EdgeGuard allows operators to control snow windrow placement relative to edge lighting infrastructure with confidence.





Enabling actionable insights for more efficient operations.

Precision GPS, Customizable Alert Zones and Dynamic In-Vehicle Moving Map Display

Deployed on any plow or blower, the system provides continuous situational awareness of edge light locations relative to the equipment edge. This significantly reduces the risk of edge lights being damaged during subsequent blower passes, a common and costly issue when snow is placed too close to lighting infrastructure.

The result: lower infrastructure repair and replacement costs, improved operational reliability during winter events, and safer airfield conditions, without requiring changes to existing snow removal procedures.

Precision Placement Control

- Enhanced awareness of edge light locations relative to the plow or blower edge
- Maintains a consistent, configurable target offset during snow removal operations
- Deployable on both plows and blowers

Operational Impact

- Reduces likelihood of edge lights being buried during plowing operations
- Supports reliable downstream blower operations
- Improves consistency in snow placement near edge lighting infrastructure



Reduce lighting damage

Operational Outcomes

- Fewer edge light strikes during snow removal
- Lower repair and replacement costs
- Reduced operational disruptions following snow events
- More consistent winter maintenance outcomes