

# Eagle Defender *Heated Signal Visor*

## Description

The all-new, innovative Eagle Defender is the latest Eagle product that focuses on improving driver safety. While the implementation of LED traffic signals in the mid-2000s heralded a significant power savings, a new and unexpected problem cropped up – snow buildup on the lenses. When snow collects on the LED lens, it can impede or even completely block the indication to the motorist. This is a significant safety issue for any motorist passing through the intersection trying to determine whether to stop or proceed. The Eagle Heated Signal Visor solves this issue and keeps the intersection safe, even during the worst snowstorms.

The Eagle Defender utilizes an ultra-efficient, printed heating element to keep the visor warm in snow conditions. The printed heater technology is extremely durable, reliable, and heats up quickly, eliminating the chance for snow to build up on the LED. Using this modern printed heating technology means the heater will keep a constant wattage across the heater, leading to uniform heating performance and naturally preventing hot-spots.

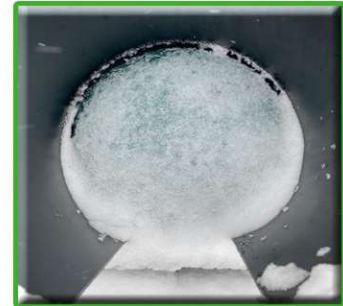
## Specifications

- Flexible heater installed on inside of visor
- Control Module installed in signal, can control up to five (5) heaters
- Temperature and humidity probe installed in signal to determine if conditions for snow are present
- Power is typically supplied using an extra, unused wire from the signal cable
- Available on new signals or as a retrofit kit

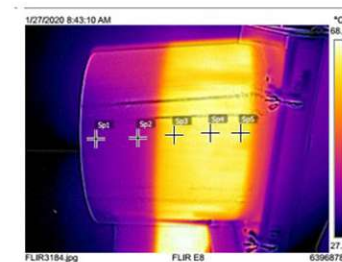
*Eagle Traffic Control Systems continues our 80+ year history of providing excellence in the ever evolving traffic industry. All of Eagle's products are developed with the highest standards of engineering and manufacturing. Eagle maintains a superior level of integrity in interactions with all of our business partners and customers. We also take tremendous pride in being model corporate citizens.*



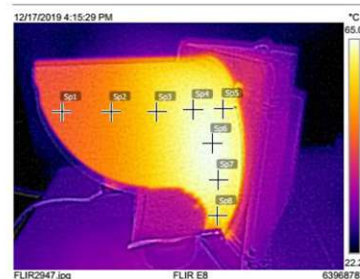
*Eagle Defender Visor*



*Non-Heated Visor*



*Polycarbonate Signal*



*Aluminum Signal*

# Eagle Defender

## Heated Signal Visor



### Control Module

- Module designed to fit on existing terminal block mounting holes.
- Each visor connects independently to the control module. Five visors can hook into a single module and are controlled independently.
- Module has a single connection to 120V.
- Cascade functionality allows heater operation to reduce power consumption. By intermittently powering the five heater outputs, the module ensures heat supply to all visors while reducing power consumption by up to 60%.



Control Module

### Temperature/Humidity Probe

- Probe mounted somewhere on the outside of the signal
- Module settings to operate the heaters during typical snowing conditions - below 35.6° F and above 75% RH.



Temperature/Humidity Probe  
Mounted on Signal



Temperature/Humidity Probe