

List of requirements

- Maximize road visibility while preventing glare for other road users.
- Must incorporate robust cybersecurity measures to protect against threats.
- Detect both oncoming vehicles and vehicles ahead in same lane.
- ADB system must be capable of varied illumination and varying angles
- ADB system must revert to low-beam mode in case of fault
- ADB system must be capable of responding to environment changes, such as fog, precipitation, road curve.
- ADB system must provide feedback to driver regarding the status of the system.

Global invariant requirements

- If system fails, system must revert to low-beam mode.
- System must not point beam at object detected as car.
- System must only respond to secure communication between the ADB components.

Questions for the customer

- Will a transition speed need to be set to transition smoothly to optimal shape and direction of the headlight beams?
- What is the error rate of the vehicles front-facing camera and sensors?
- Will position of the driver's eyes need to be accounted for in the ADB system?