

Introducing The Worlds 1st 360° Bicycle Safety Reflector

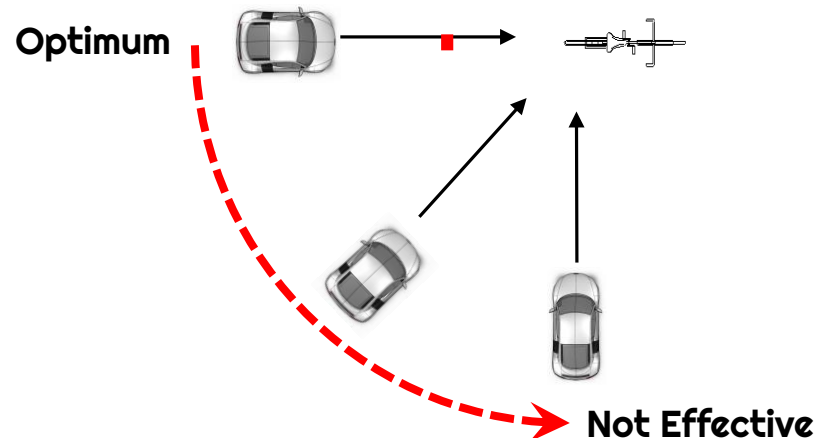


Existing Reflector Design: Limitations

- Constrained By A Flat Surface Profile Which Is Only Effective When Viewed Directly From Behind.

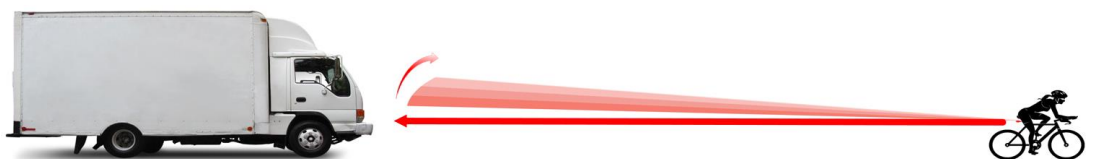


- The **Safety** Of The Cyclist Is Compromised For Changes In The Vehicle **Approach Angle**.



Optimum -----> Not Effective

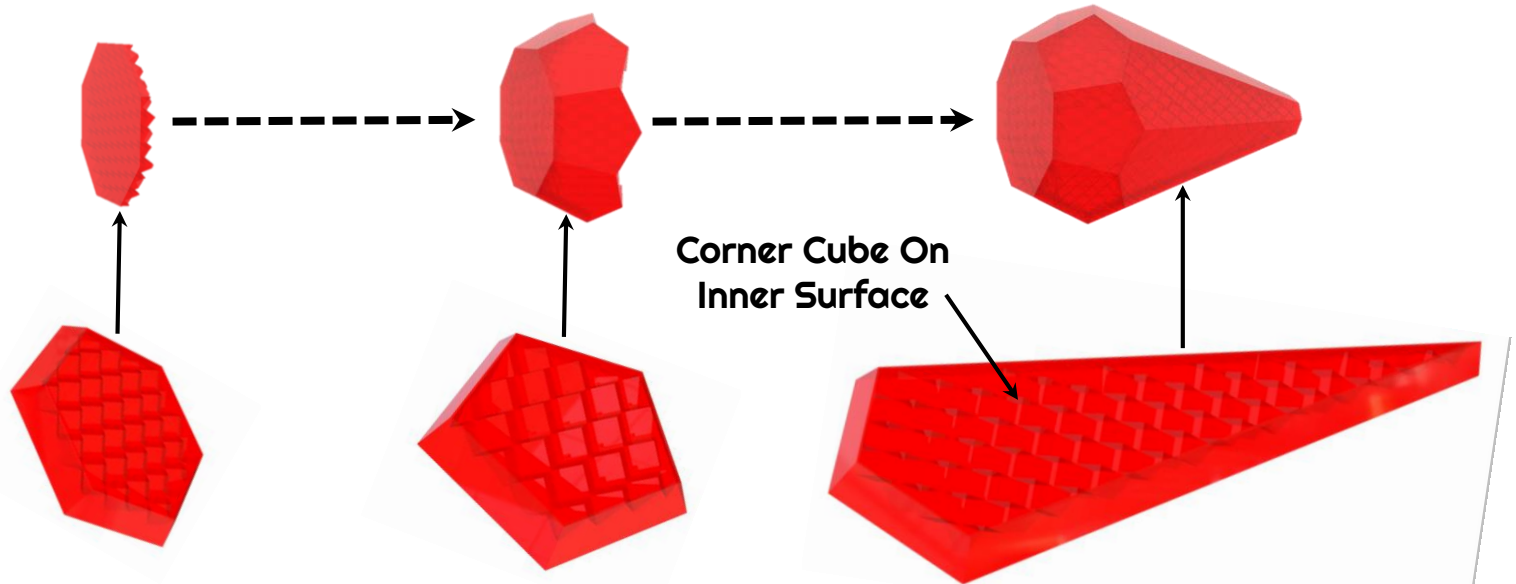
- Reflectivity Is **Minimised** For Increases In The **Observation Height** Of The Approach Vehicle.



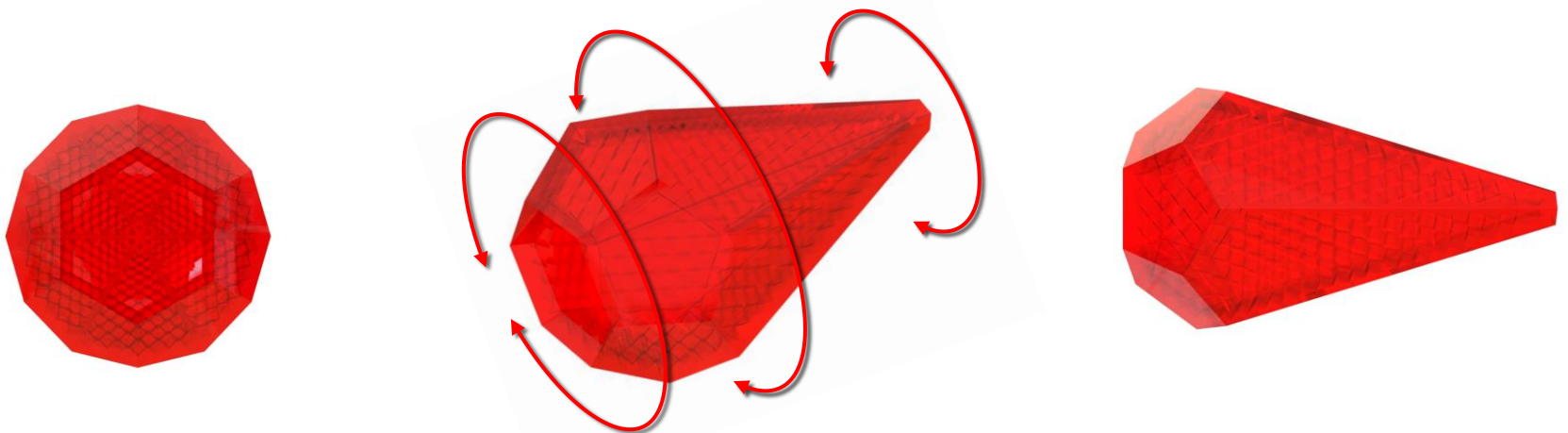
Solution: 360° Bicycle Safety Reflector



Features: Corner Cube Retro Reflection On Inner Surface



Features: 360° Polyhedron Construction



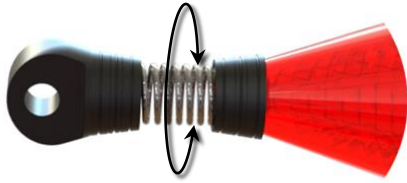
Features: Over Moulded Outer Contour



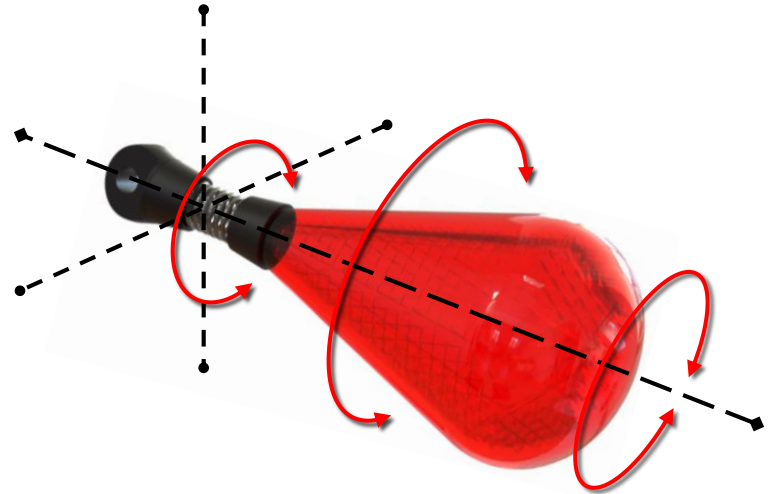
- Propagates light onto all indirect surfaces.
- Illuminates all surfaces simultaneously.
- Magnifies inner profile.

Features: Spring Mount

- Spring utilizes cyclist movement to oscillate reflector.



- Oscillation magnifies the observed reflected area.
- Motion captures driver attention and enhances awareness.



Features: Approach Angle



Features: Observation Height

- Reflectivity is **optimum** for all variations in the **observation height** of the approach vehicle.



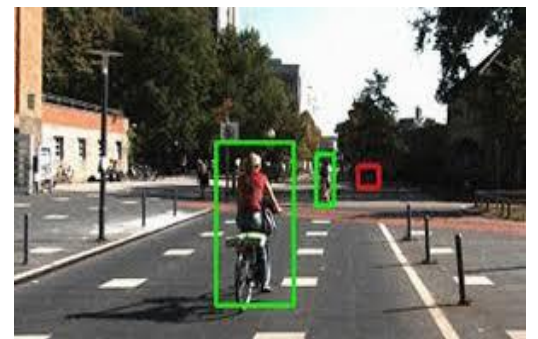
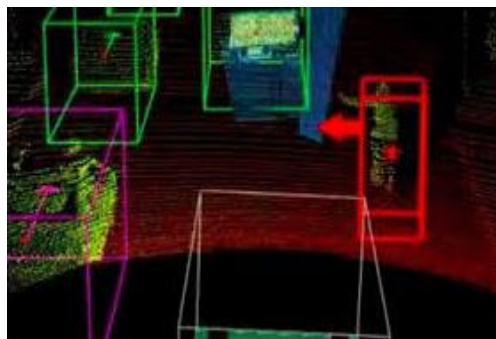
Additional Benefits: Autonomous Vehicle monitoring Systems

Oscillatory Motion Enhances Detection By Autonomous Vehicles

- Ultrasonic Monitoring (Passive Proximity Sensors)
- Lidar (Light Detection & Ranging)
- Radar (Radio Detection & Ranging)

Compliments Sensory Devices

- Magnifies Feature Recognition
- Optimises Motion Detection
- Enhanced Safety



Additional Benefits: Daytime Illumination

- Improves Daytime Safety By Capturing Natural Daylight
- Enables Light To Pass Through Reflector & Illuminate All Faces Simultaneously

