

Red-Light Running (RLR)

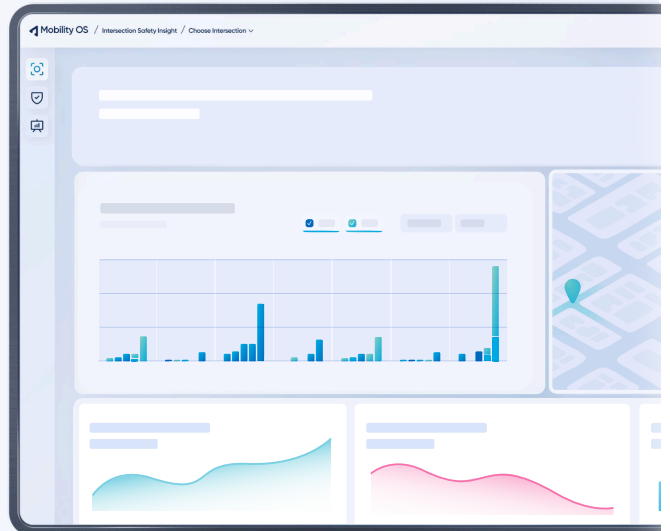
Red-light running analytics that help agencies identify at-risk intersections and improve safety.

Red-light running affects thousands of people daily

900 People Killed Annually*

165K People Injured Annually*

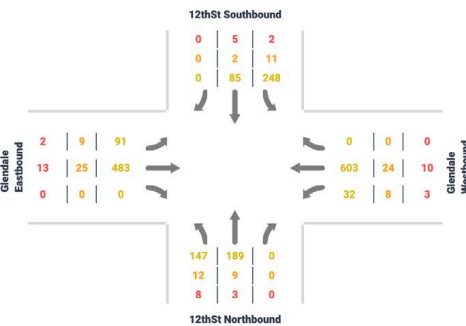
* Including pedestrians, cyclists and motorists
Source: Federal Highway Administration 2020



RED LIGHT RUNNER COUNT

02/14/2024 12:00 AM - 02/14/2024 11:59 PM

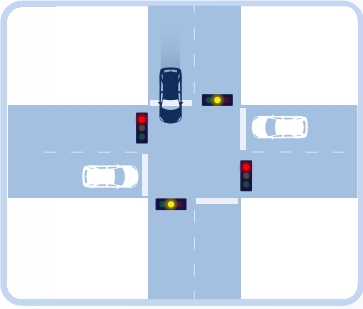
1878 Tier 1 100 Tier 2 46 Tier 3



Background

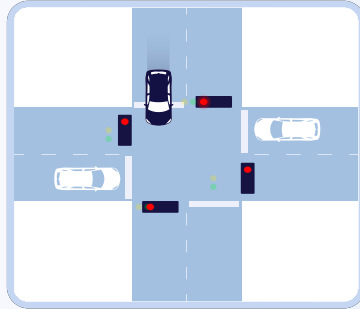
Red-light running is a safety-oriented software application that correlates traffic signal phases with vehicle movements across the stop line, enabling precise tracking of red-light running.

Our system can detect the following TIERS of red-light running (RLR) events:



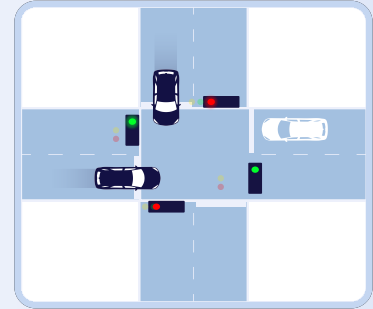
Tier 1

Vehicle crosses the stop bar **during** the yellow change



Tier 2

Vehicle crosses the stop bar **during** the all-red clearance



Tier 3

Vehicle crosses the stop bar **after** the all-red clearance

Top Line Benefits

1 Identify intersections with red-light running

2 Understand the context of RLR events through video analysis

3 Evaluate the effectiveness of safety countermeasures

Features and Capabilities

- ✓ Conducts in-depth analysis of trends and problematic areas contributing to incidents of red-light running at both intersection and city-wide levels.
- ✓ Filters incidents by customizable parameters such as time of day and frequency per month/week/day/hour.
- ✓ Categorizes incidents by classification type (Tiers 1, 2, 3).
- ✓ Categorizes incidents by type of roadway user.
- ✓ Provides comparative analysis to evaluate the effectiveness of various countermeasures against red-light running.
- ✓ Offers actionable insights aimed at reducing the potential risk of future occurrences of red-light running.

AI Mobility Platform

The Red-Light Running (RLR) application can be activated from the Mobility Store, which provides a diverse range of applications. The Mobility Store is part of the NoTraffic AI Mobility Platform, which integrates AI-powered software and hardware at the edge under a cloud-based Mobility OS (Operating System) to address current and future transportation needs.

