City of Dayton

The City of Dayton is the sixth-largest city and fourth-largest metropolitan area in the State of Ohio. Bordering on I-70, Dayton serves as an industrial logistical hub and home to the National Museum of the U.S. Air Force.

The Challenge

The City of Dayton was looking for a way to reduce speeding, where traditional enforcement methods had failed to deter dangerous driving. One location in particular, James H. McGee Boulevard, with a posted speed of 40 mph, had a substantial speeding problem. There were several reported incidents of vehicles fleeing from officers trying to enforce speeding in the area. The City also had to quickly respond to two speed-related fatal crashes within a week of each other on Riverside Drive. The situation had become hazardous enough that both citizens and officers voiced their complaints about the speeding problem. Continuing with the traditional enforcement methods was not an option.

The Solution

Since the photo enforcement program began the City has deployed thirteen (13) Pro ATE (Automated Traffic Enforcement) appliances, powered by proprietary AI in portable and fixed configurations. These appliances capture speeding violations 24/7/365 in all weather conditions. Integrating either 10K pulse/sec Lidar or 4D Radar sensors with 4K color video cameras, IR illumination and a powerful CPU, Altumint's Pro ATE solutions cover up to 6 lanes of uni or bi-directional traffic. Altumint's AI reads the plate, state, color, make, and type of every vehicle – no need for obsolete OCR (Optical Character Recognition) requiring one camera per lane. These turnkey solutions are enabling the City to target these problem areas quickly and keep their overall enforcement program fluid.

The Result

In the first four months of enforcement, including a 30-day warning period, there was a significant reduction in speeding and crashes in the City of Dayton. James H. McGee Boulevard alone saw a 75% reduction in crashes compared to the four months prior to deployment, along with an 84% reduction in vehicles traveling at, or above, 55 mph. Riverside Drive also had a 37% reduction in crashes and saw an 82% reduction in vehicles traveling at, or above, 55 mph. Overall, the City issued 19,212 warnings and 18,929 violations to vehicle owners captured from locations throughout Dayton. Based on the initial success of the photo speed enforcement program, the City is looking forward to the second phase with its focus on reducing red light violations by deploying Altumint's Pro ATE fixed pole systems at several dangerous intersections

Program Overview

13
Photo speed violation detection systems

24/7
Operation and support maintenance

84%
Reduction in vehicles traveling at or above 55 MPH

75%
Reduction in crashes on James H. McGee Boulevard

> ***Altumint has been very supportive in our goal to reduce traffic crashes within the City of Dayton. I highly recommend Altumint's services to any Government that has a need for their technology.***

Chief Richard S Biehl, Director and Chief of Police,
Dayton Police Department