

Bus Lane Enforcement



TURNKEY TECHNOLOGY

Highly accurate AI/ML software for detection and analytics



COMPREHENSIVE EVIDENCE

High resolution images with privacy masking of human faces and non-violating images



END-TO-END SOLUTION

Vehicle detection and classification to detect and identify unauthorized vehicles that use bus lanes



"Research shows that 28% of traffic congestion in cities is caused by motorists looking for a place to park. It needn't be this high if motorists followed road rules such as avoiding bus, bike and transit lanes. Thanks to SenSen this is now possible with a solution that's portable, discreet and highly accurate. Best of all, it's been proven in some of the world's toughest operating conditions from the heat of Australia to the crowded streets of Singapore."

Subhash Challa, CEO - SenSen Networks



"Solution has reduced reliance on manpower by achieving higher efficiency in conducting video analytics for bus lane enforcement."

Land & Transport Authority, Singapore

Why Bus Lane Enforcement



SOLUTION OVERVIEW

The fixed camera bus lane enforcement solution uses cloud and edge processors to continuously monitor vehicles within the camera view. The solution helps to maximize the efficiency of public transport lanes by enforcing compliance with road rules.

CONFIGURATIONS

- Fixed camera mounted on pole connected to an onsite processing unit
- Android-based rugged outdoor ready-to-deploy system out of the box mounted on pole
- Android-based outdoor ready to deploy vehicle dashboard mounted system

SOLUTION HIGHLIGHTS

- Detection of the vehicle from varying distances and angles
- 24x7 operation to detect violations
- Scalable architecture
- Automated privacy masking
- Open platform integration support

KEY FEATURES

- Advanced vehicle detection
- Fully integrated infringement detection platform
- Exceptional performance even under low-bandwidth conditions with no down time
- Highly secured data transfer over available network
- Generates video evidence in case of appeal
- Fully functional back-office system for two level infringement review
- Seamless integration with central system for infringement data transfer

BUSINESS OUTCOMES

- Reduced junction capacity
- Sufficient queuing space
- Junction clearing from downstream congestion
- Reduced bus lane violations
- Improved bus travel time and reliability
- Decreased flows of conflicting traffic

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