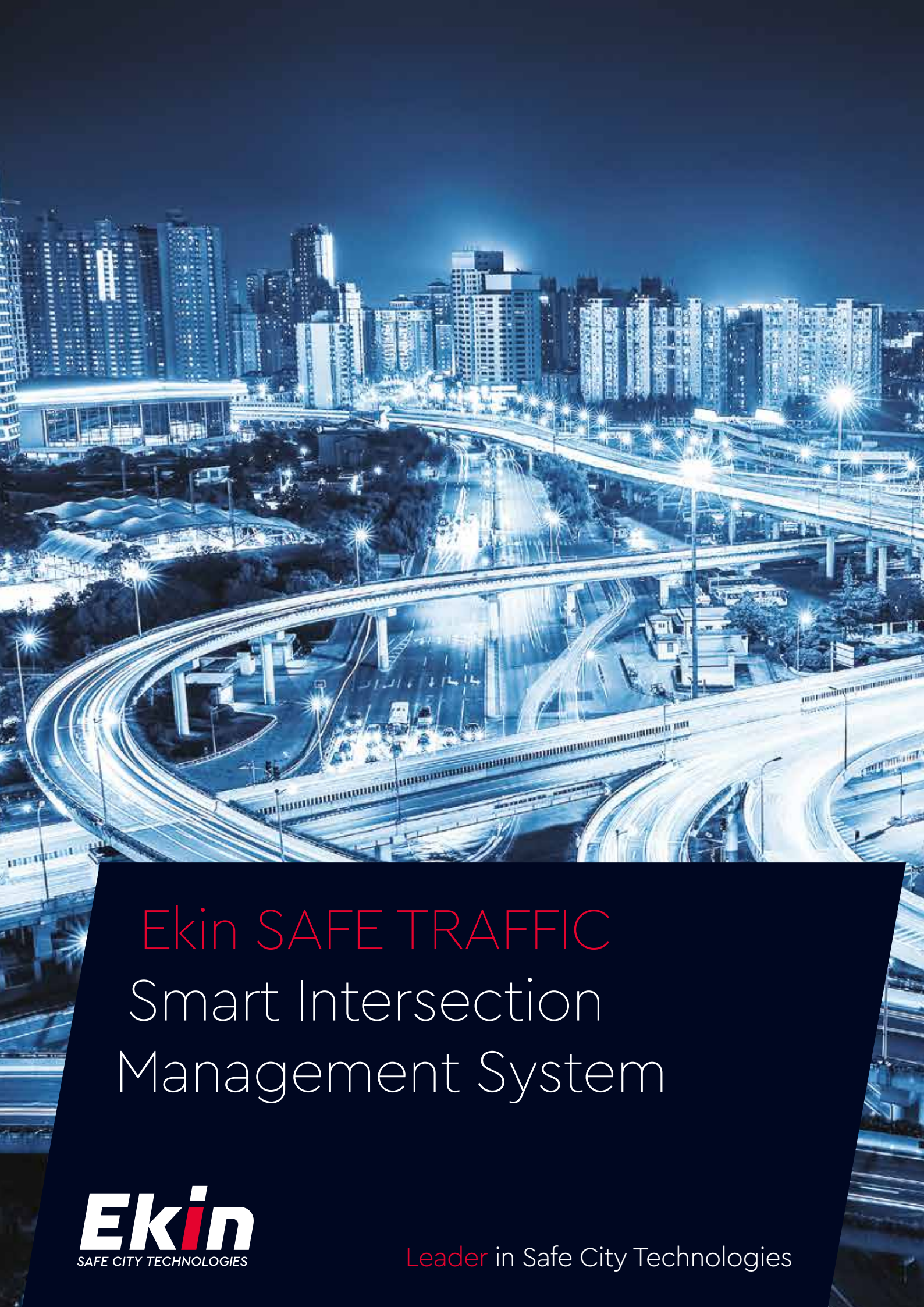


Ekin SAFE TRAFFIC
Smart Intersection Management System

Ekin
SAFE CITY TECHNOLOGIES

Leader in Safe City Technologies

Ekin Smart Intersection Management System uses data on the number of vehicles at intersections, the vehicle density and average speed to manage the traffic lights and volume with the aim to optimize the road traffic.

Real-Time Intervention

Due to increasing traffic volume, Ekin Smart Intersection Management System can realize real-time interventions to congested intersections.

Considering the results of vehicle counting units, the traffic light control system can be regulated instantly.

At the same time, the light durations can be optimized instantly and online to control the traffic volume influenced by parameters like tailing.

Thus accelerating the traffic flow and reducing the lost time to the minimum, a fast and efficient solution is provided.

Communication

With the feature that Ekin Systems can communicate with each other, the communication and signal control of subsequent smart intersection management systems can be provided.

Thus, it is ensured that vehicles can pass without waiting at red lights and that the traffic volume is reduced for long distances.

Why Ekin Smart Intersection Management System

Flexibility

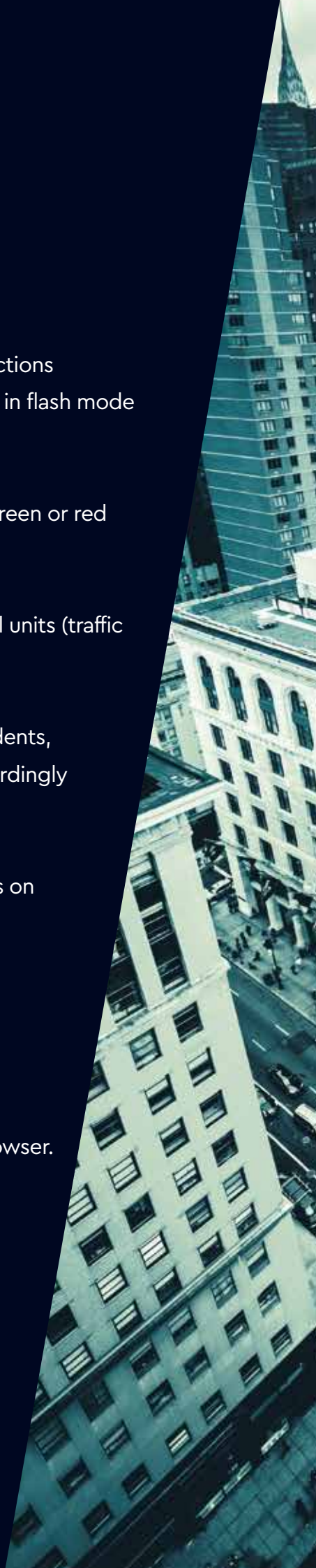
The Smart Intersection Control System ensures that the red light time settings for intersections can be regulated and applied for special hours and weekdays.
Thus, according to the city intensity (weekdays, weekends, summer vacations, etc.), the signal control is going to be created automatically to balance the traffic volume.

Detailed Reporting

The system can generate reports related to traffic volume, speed and red light duration and intersection situations.
Thus, locations with congestions due to high intensity or accidents can be determined quickly, and necessary improvements can be taken.

Technical Features

- Ekin Smart Intersection Management System can run the intersections dynamically, manual, programmed, coordinated (green wave) or in flash mode showing different modes on the map.
- The system is able to show the locations, any damages, actual green or red light situations of the traffic lights on the map.
- The interactive interface of the system allows connecting with all units (traffic lights, traffic signs, ambulances, etc.) on the map.
- It helps the user to follow traffic reports like road workings, accidents, damaged or prohibited streets on the map supported with accordingly images.
- In case of any damages, the system can regulate the signal times on previously collected vehicle-counting values.
- The GPS function provides the option that vehicles defined by the system can pass previously within certain limits.
- Through the web-based structure, access to the system can be ensured with the existing network structure and any internet browser.
- Ekin Smart Intersection Management System is designed to be integrated with the Safe City Technologies Operating System 'Red Eagle' or third-party video management systems.



Other Ekin Safe Traffic Solutions

[XY 38 Z] Number Plate Recognition

- Automatic and simultaneous number plate recognition for moving or parked vehicles
- Ability to recognize license plates correctly under night, day, adverse weather and challenging traffic conditions
- Identification of wanted or stolen vehicles over a specific database

Parking Violation Detection

- Detection of vehicles exceeding the parking time in the defined parking zone
- High-resolution videos and images of parking violator vehicles
- Automatic official fine or report issuing containing required violation information
- Transmission of live images from the defined parking violation zone
- Brand, model, color, and type definition with high accuracy

Speed Detection

- Automatic speed measurement for all the vehicles in the field of view
- Speed violation detection whether moving or parked vehicles
- Different speed limit adjustment for different lanes
- Automatic official fine or report issuing containing required violation information
- High-resolution violation photos and videos including speed values and coordinate information

Red Light Enforcement

- High-resolution videos and images of all vehicles violating red light laws
- Automatic, official fine or report containing required violation information
- Ability to work bidirectionally depending on the selected hardware that can work on up to eight lanes, including four lanes for each direction

For detailed information Ekin.com

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