



DESIGN
AWARD
2021

Ekin X SPOTTER MOBILE

Mobile ANPR, Speed
and Traffic Violation
Recognition System

Ekin

Leader in Smart City Innovations

Ekin X Spotter Mobile is a mobile AI-based traffic enforcement system that performs automatic number plate recognition, speed, and violation detection of all vehicles in its field of view. Equipped with a 4K Super High-Resolution sensor and video-based number plate recognition technology, it's able to perform continuous traffic monitoring while on the move.



Why Ekin X Spotter Mobile?

Self-Contained Design

Offering a compact design, the X Spotter Mobile can be effortlessly moved onto any type of vehicle as a mobile plug-and-play solution. Its versatility provides the option to be fastened on a car hood with magnetic mounting equipment or to the dashboard. Built-in and ready to use GPS, LTE, Wi-Fi, ethernet support, providing versatile application and range.

Mobile Surveillance

Provides extensive surveillance of a range of 3 lanes on the move. Its mobility provides extended coverage and various usage options for traffic authorities and law enforcement.

High-Resolution Videos

Equipped with a 4K Super High-Resolution sensor, Ekin X Spotter Mobile ensures high-resolution video and ANPR. Able to capture images and videos while maintaining maximum focus and sharpness.

24/7 Surveillance and Traffic Control

Ekin's video-based number plate recognition technology can capture the violation moment as well as the entire traffic flow which offers a distinct benefit when compared to conventional photograph-based systems.

Internationally Applicable

Ekin X Spotter Mobile recognizes number plates from multiple regions including Europe, North America, Latin America, Asia, and the Middle East with high accuracy identification

Central Management by Ekin Maestro OS

The Ekin Maestro OS operates the complete traffic systems of a city from one central back-office including Ekin X Spotter Mobile and other Ekin devices. Working simultaneously and in real-time to compare databases, it generates alerts to assure an effective response time from law enforcement officials.



FUNCTIONS

* More than one device is needed for all functions



Smart Traffic Analytics

- Analysis of rush hour congestion for specified points of interest, flow of cars passing toll points including delays and "hotspots" of traffic congestion by date and time
- Congestion time monitoring



Number Plate Recognition

- Ability to capture every number plate in its field of view with its video-based number plate recognition system
- Advance technology for up to 3 lanes
- Simultaneous automatic number plate recognition for approaching, departing, or parked vehicles
- Identification of wanted or stolen vehicles within a specific database



Speed Detection * Optional

- Automatic speed detection range for the vehicles in the field of view
- Automatic fine issuance and reporting including all infraction information



Video Surveillance

- 24/7 surveillance and video recording
- Day and night 4K video recording, including in adverse weather conditions

ON-BOARD INTELLIGENCE



Fully Automated NPR



Speed Detection



Traffic Density Analytics



Lane, Turn, Wrong Way Violations



Vehicle Detection

TECHNICAL FEATURES

DETECTION

Mobile Application Speed Detection Range*	Up to 250 Km/h
Coverage	3 lanes including approaching and departing vehicles
Number of Simultaneously Detected Vehicles	Over 100 vehicles

* Long Range Mode

ILLUMINATION

IR Spot	✓
Day and Night Number Plate Detection	✓
Flash	Optional

SYSTEM SOFTWARE

Automatic Number Plate Recognition	24/7 for all the vehicles in the field of view
Web Service	✓
Protocol	TCP/IP, UDP, NTP, FTP, RAW
Various Database Support	SQL/NoSQL
Alarm Management	✓
Remote Secure Installation and Access	✓
Violation Photo and Video Evidence	✓
24/7 Surveillance Record	✓
Watermark	Applied on all photos and videos
Storage Capacity	Up to 8 TB
Communication with Other Smart City Solutions via Ekin Maestro OS	✓

CENTRAL SOFTWARE

Various Database Support	SQL/NoSQL
Graded Authorization	Admin, Supervisor, Users
Customizable Fine Printing	✓
SMS and Mail Support	✓
Automatic Update	✓
Log Record	✓

ELECTRICAL FEATURES

Connection Interfaces	Ethernet, LTE
Required Power Supply	12 VDC/40 Watt
Power Consumption	<40 Watt/Hour

ENVIRONMENTAL FEATURES

Operating Temperature	-40°C +60°C
Storage Temperature	-40°C +85°C
Humidity Rate	80-95% non-condensing
IP Class	IP67
Impact Protection Class	IK10

PRODUCT DIMENSIONS

Dimensions (Width × Length × Height)	190 mm × 200 mm × 110 mm
Weight	3.5 kg



Leader in Smart City Innovations

Fixed Products

Ekin Spotter

Ekin Box Spotter

Ekin X Spotter

Mobile Products

Ekin Patrol G2

Ekin Micro Patrol

Ekin X Spotter Mobile

[Ekin.com](https://www.ekin.com)

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