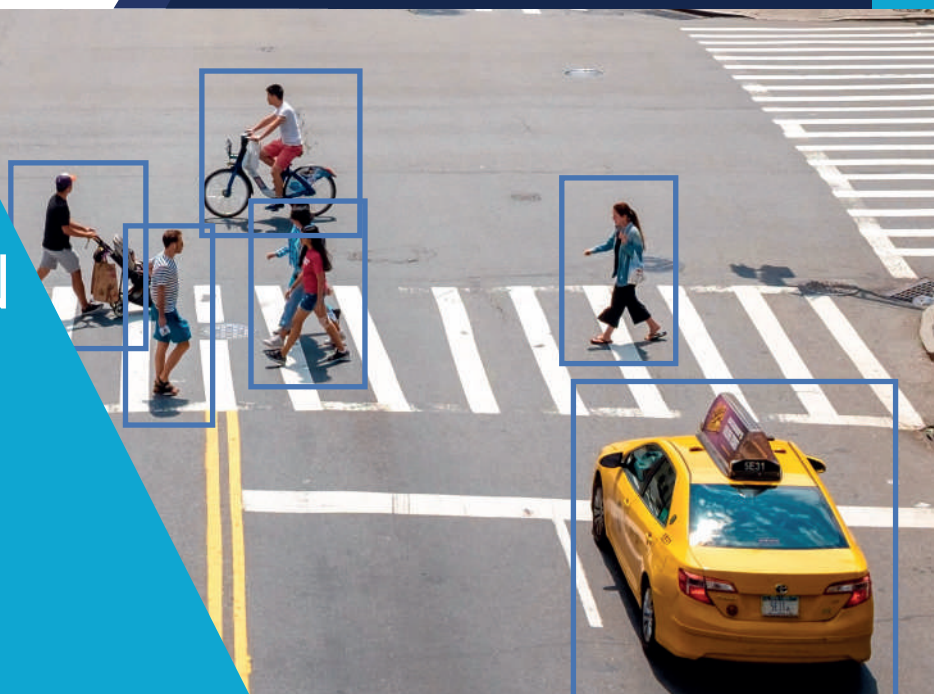


COUNTER CLASSIFICATION & COUNTING

GUIDANCE · TRAFFIC GAUGE
 VIRTUAL LOOP DETECTION
 QUEUE DETECTION
 SMART TRAFFIC LIGHTS



Module based on Deep Learning technology to analyze the images obtained by a camera in real time. SIRAM Counter performs the identification, classification, tracking and counting of the different vehicles and pedestrians present at the scene.



Deep Learning

The use of Artificial Intelligence provides innovative video analytics solutions for Smart Roads and Smart Cities.



Total Integration

It has an integration protocol for guidance systems and other platforms.



Camera embedded or server-based

The software can run on CPU, GPU or embedded in the camera itself.



SIRAM COUNTER Monitor

Web software where the data collected by every COUNTER is stored (Statistical queries, integration with other platforms and Information Panels).

WHY CHOOSE SIRAM COUNTER?

- Classification and counting in real time
- High Accuracy Rate - Based on Deep Learning
- Compatible with any ONVIF camera
- Ease of setup - Intuitive user interface
- Quick implementation - Adaptation to any type of road

SMART APPLICATIONS

SMART ROADS

Vehicle classification
and counting

Traffic Gauge | Virtual Loop

SMART PARKING

vehicle classification
and counting

Guidance | Virtual Loop

SMART CITY

vehicle and pedestrian
counting

Traffic/People Gauge | Trajectories
Intelligent traffic lights cycle

AIQD

Automatic Incident
and Queue Detection

Congestion Level | Queue
Evaluation | Sense detection



PARKING

Classifies between truck, bus, van, car, motorcycle, bicycle, scooter and pedestrian

Counting in a SINGLE LINE

Virtual Loop by type of vehicle (motorcycles and bikes)

SW Embedded in camera (@Edge)

Communication protocol TCP/IP or Api Rest

It manages the I/O module of the camera or the Conex (4E/4S)

Vehicular lane and bike lane

Counter Monitor Optional



TRAFFIC

Classifies between truck, bus, van, car, motorcycle, bicycle, scooter and pedestrian

Counting in MULTIPLE LINES

Occupancy level in MULTIPLE ZONES

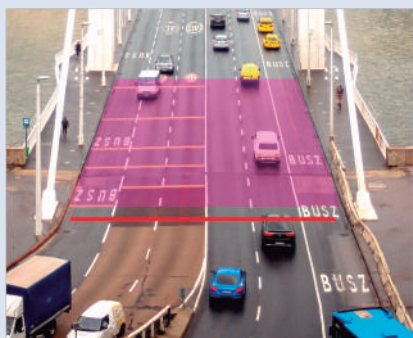
GPU - Server Based o Jetson Embedded

Communication protocol TCP/IP or Api Rest

It manages the I/O module of the camera or the Conex (4E/4S)

Vehicular lane, bike lane, pedestrian crossing and sidewalk

Counter Monitor Optional



☐ Hide CL
 ☐ Hide CA

Counter LINE

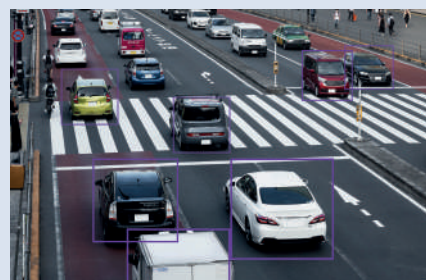
LINE 1

61	632	681	63	9	TO Z1	735
35	110	210	04	11	TO Z2	859

Counter AREA

AREA1

☐ Máximo
 ☐ Mínimo



COUNT Z1 TO Z2 0

COUNT Z2 TO Z1 37

Plate: 039 ZM

Plate: 981 NP

Counter



It quantifies the vehicles entering and leaving an enclosure using video analytics embedded in the camera. A single camera allows to analyze two adjoining lanes and to discriminate the vehicle direction.

Traffic gauge

It counts and classifies all types of vehicles and pedestrians that circulate through a multi-lane road, the sidewalk or the bike path. It allows to identify the direction of circulation.

