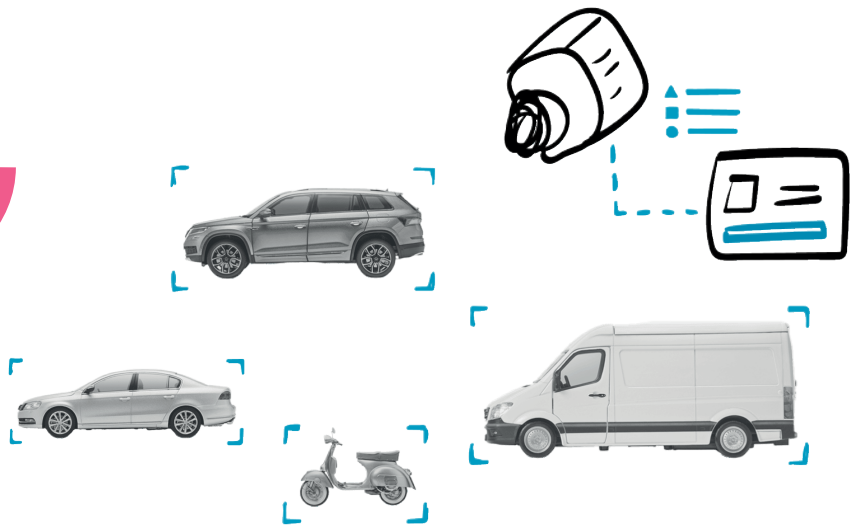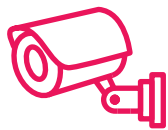# Counter Park
VIDEO ANALYSIS VEHICLE COUNTING AND GUIDANCE

SIRAM COUNTER Park is a vehicle counting software based on Video Analysis. It **identifies, classifies and tracks vehicles** using deep learning algorithms that run directly on the camera.

Deep Learning Technology	Embedded camera	Accuracy rate +99%	Full Integration	ONVIF Compatible	Direction detection

WHY CHOOSE COUNTER PARK?

- **Very high accuracy rate** - Deep Learning
- **Easy setup** - Intuitive user interface
- **Quick implementation** - Adaptability all types of lanes
- **One camera covers two lanes**
- **Lower maintenance** than other counting solutions

SMART APPLICATIONS

PARKING - Public Parking & Shopping Center

MOBILITY - Park & Ride

SECURITY - Embarked on vehicles

**TRAFFIC SYSTEMS -** Integration with Smart City Apps (ITS)

P PARKING

Integrated with Guidance and PARCS systems
Stock by floors and by areas
Pass counter
I/O Control (Camera or Siram Conex)
Vehicle direction identification
Integration with panels

MOBILITY

Integrated with Mobility APPs and ITS systems
Park&Ride occupancy
Pass counter
Number of available and occupied parking spaces
Identification of vehicle direction
Occupancy statistics (Siram Monitor Guidance)

FUNCTIONALITIES

SIRAM 007 COUNTER
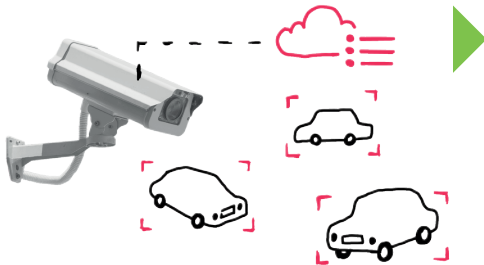
- Vehicle counting crossing a line
- Vehicle counting in both directions
- Cars, motorcycles, vans and trucks counting
- Bicycles and scooters counting
- I/O control (Camera or SIRAM Conex)
- Web interface and viewer control
- Maximum Speed 25 Km/h - 15 Mph

☐ Hide CL   ☐ Hide CA

Counter LINE

LINE 1

🚛	🚚	🚗	🏍	🚌		
21	12	26	8	10	TO Z1	77
11	17	58	21	7	TO Z2	114

☐ Maximum ☐ Minimum
☑ Show Obj ☑ Show Trajectory ☐ Show Ids

| Input | Counter | Mask | Summary |

Vehicle Type counting

Number of entries/exits

Direction detection

COUNTER MODEL

COUNTER MODEL	mini BULLET	BULLET	BULLET XXL
Camera model	Axis M2036LE	Axis P1465LE	Axis Q1785LE
Processor	CV25 64bits	Artpec8 64bits	Artpec6 32bits
RAM	1 GB	1 GB	1 GB
Image sensor	1/2.8" RGB CMOS	1/2.8" RGB CMOS	1/2.8" RGB CMOS
Maximum resolution	4 MP (2668 x 1512)	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)
Lens	Fixed Iris 2,4 mm, F2.1	Varifocal, 3–9 mm, F1.6	Varifocal, 4.3–137 mm, F1.4
Video compression	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Power supply	Power over Ethernet (PoE) 802.3af/802.3at Type1 Class3 Typical 5 W, max 12,95 W	Power over Ethernet (PoE) 802.3af/802.3at Type1 Class3 Typical 7,9 W, max. 12,95 W	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type1 Class3 Typical 7,9 W, max. 12,95 W
AXIS warranty	5 years	5 years	5 years

RECOMMENDED POSITIONING

The positioning of the COUNTER capture unit on the ceiling, wall, or pole must always meet the following requirements:

- The smallest possible horizontal inclination with respect to the center of the lane

- Vision focused only on the lane to be counted. Maximum of 2 adjacent lanes.

- The minimum height for the Mini Bullet of 2.5 meters and a minimum distance of 5 meters (Vision of the entire vehicle)

- The minimum height for the Bullet and the Bullet XXL is 3.5 meters and a minimum distance of 5 meters (Vision of the entire vehicle)

- It is necessary to avoid concealments caused by elements such as the barrier, signs or the parking terminal.

- The minimum required illumination is 100 lux

REAR CAPTURE

FRONT CAPTURE

Height (H)

Height (H)

Width (W)

Distance (D)
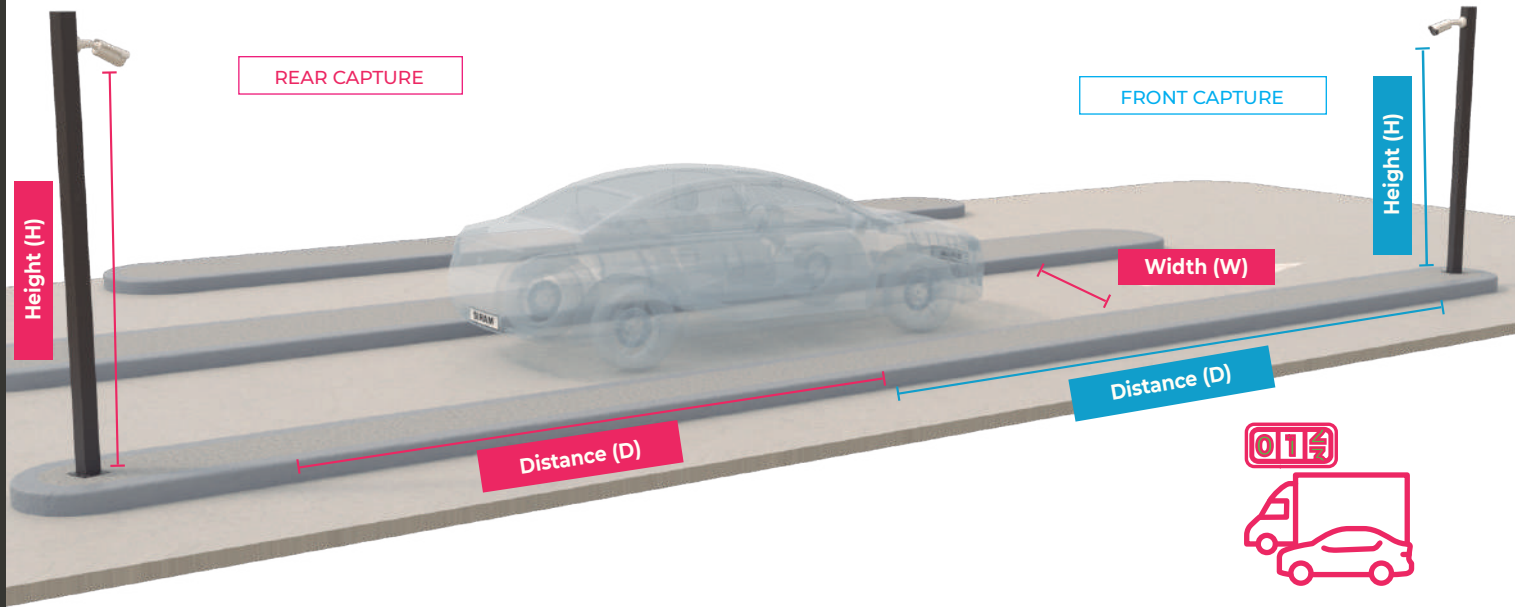
Distance (D)

How to choose the best LPR camera for your project?

ACCURACY +99%

COUNTER CAMERAS MODELS

	Location	Height	Distance (D)	Lane width (W)
Mini BULLET	Wall, Ceiling or Pole	2,5 - 3,5 m 8.2- 11.5 ft	5 - 15 m 16.4 - 50 ft	7 m / 23 ft
BULLET	Wall, Ceiling or Pole	3,5 - 5 m 11.5- 16.4 ft	5 - 20 m 16,4 - 66 ft	7 m / 23 ft
BULLET XXL	Wall, Ceiling or Pole	3,5 - 10 m 11.5 - 33 ft	15 - 50 m 50 - 64 ft	10 m / 33 ft

Conect **Counter Park** to your Parking management system

SIRAM COUNTER MONITOR

SIRAM Counter cameras

Counter Monitor

Information panels

SIRAM COUNTER API

SIRAM Counter Cameras

Counter API

Customer Guidance System