

CAIMAN-PRO I

WIDE BEAM STOP+MOTION RADAR DETECTOR

SWARCO TRAFFIC SYSTEMS GmbH is a member of the internationally active SWARCO group, the one-stop shop for road markings, signage, signalisation and traffic management – your reliable partner for traffic solutions.

The Caiman-Pro I wide beam Stop+Motion radar detector is suited for lane discrimination in interurban areas over multiple lanes. It detects and tracks moving and stopped objects within the entire detection area delivering the following data: vehicle speed, length, net time gap, direction and classification. Due to its forward firing position it offers a wide range of applications, detection points and mounting positions. The Caiman-Pro I detections in an area of 20 m up to 150 m, more versions on request.

FEATURES

- Wide beam over multiple lanes
- Stop+Motion function (simultaneously up to 126 moving and stopped objects)
- Accurate measurement of vehicle speed, distance to the sensor, horizontal and vertical angle
- Single vehicle data with speed, length, net time gap, direction and classification in interurban areas
- 2 vehicle classes acc. to TLS (car-similar / truck-similar)*, 4 vehicle classes (car, truck, motorbike, other vehicles)
- Multiple choice of detection points and mounting positions (e.g. mast arm, vertical pole or sign gantry)

TYPICAL APPLICATIONS

- Traffic management and traffic data acquisition in interurban areas with detection of vehicle speed, counting and occupancy
- Classification on up to 4 lanes
- Special applications such as wrong way driver detection, traffic jam detection

BENEFITS

- Only one radar necessary for the detection
- Simultaneous detection across all lanes within the detection area
- Detection within the entire detection area up to the detection threshold (20 m up to 150 m from mounting point) or only in selected parts
- 100 % independent of time of the day and light conditions (bright sunlight, shadow, dawn, night)

TYPICAL PARAMETERS

	Caiman-Pro I ₃₂
Number of lanes	4
Typical range	35 m to 50 m
Sensor height	6 m
Vertical angle down to road	-6°
Horizontal angle	-8°

* on the basis of German TLS-BASt, in Versions including PRIMOS IOC

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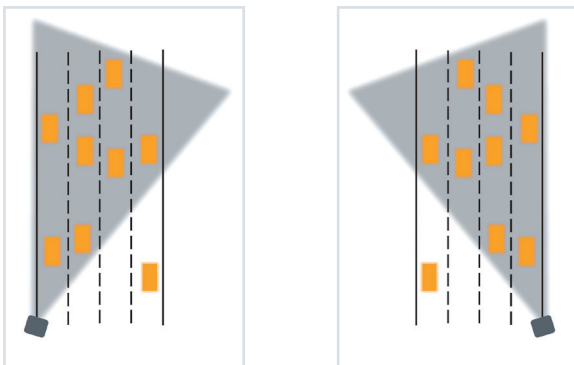
TECHNICAL FEATURES:

	Caiman-Pro I ₃₂
Application	Classification in the far range
Covered area (distance from pole)	typical 35 m up to 50 m; max. 20 m up to 150 m
Max. azimuth field of view	32° (+/-16°)
Ambient Temperature	-40 °C to +85 °C
Weight	340 g
Dimensions	110 mm x 99 mm (w x h)
Power Supply	8 V DC to 32 V DC, 5 W
Frequency Band	24.0 GHz to 24.25 GHz
Interfaces	RS485 full-duplex, Ethernet 10/100
Connector	12-pin plug series Hirose LF10WBRB-12PD (power supply, CAN, RS485, Ethernet)

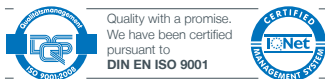
STOP+MOTION FUNCTION

Due to its novel Stop+Motion function the Caiman I not only detects and tracks moving objects but also determines stopped objects. The sophisticated algorithm "remembers" static objects until they start moving again thus providing an additional presence detection.

DETECTION POINTS



For the most accurate classification we recommend the mounting in a sidefired position (right or left)



SWARCO TRAFFIC SYSTEMS GMBH

SWARCO TRAFFIC SYSTEMS GMBH is one of the leading suppliers of intelligent traffic systems in Germany. Building on many decades of experience, it offers a wide range of innovative solutions for urban and interurban traffic management, including parking and traffic detection. Its nationwide service and maintenance network guarantees highest possible system availability and improved road safety. With economical, sustainable, and environmentally friendly technologies we help ensure smooth and safe traffic flows.

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