



selea.com

Solutions for vehicle control.

Production of cameras and software for **public safety**, road safety, ITS(*intelligent transport system*), **Smart Parking** and **Smart City**.



Address

☎ +39 0375 88 90 91
 ∞ infocom@selea.com

Via Aldo Moro 69 46019 Cicognara (MN) Italy

www.selea.com



Symbol legend



CONTEXT SENSOR Integrated context sensor



OCR SENSOR

Integrated licence plate reading sensor



NVIDIA

Al microprocessor for image processing and deep learning algorithms



MICRO SD

Hight Endurance (-40° to +85°) industrial grade SLC internal memory



PRIVACY

Algorithm for blurring subjects external to the recognised vehicle



MAKE & MODEL

Vehicle make and model recognition algorithm (over 9000 models)



COLOUR

Vehicle colour recognition algorithm (up to 16 shades)



CLASS

Vehicle type recognition algorithm (up to 35 classes)



SPEED Instantaneous speed estimation recognition algorithm



HELMET Algorithm for recognizing the presence/ absence of the helmet on a motorcyclist

ISDP-10003

GDPR Compliance Certification on the principles of Privacy by Design and Privacy by Default



INCIDENT

Algorithm for recognition of stationary vehicles, wrong-way, smoke/fire



MOBILE

Vehicle camera developed for reading moving number plates



VIDEO INPUTS

Algorithm for extrapolating vehicle registration numbers from H264/MP4 video



CELLULAR

Algorithm for statistical analysis of mobile phone use while driving



BELT

Algorithm for statistical analysis of seat belt use while driving



ANIMALS

Algorithm for statistical analysis of animal presence on the passenger side



I/O

LENS

Opto-isolated or dry contact input and output ports



PNE

POE+ or POE 802.3af power supply



Motorised lens with zoom and focus adjustable via remote webserver

NDAA

Cyber Security Product Compliance Requirement



Products for URBAN SECURITY







Dual lens camera (OCR and context) for automatic reading of number plates and dangerous goods (Kemler), **single lane**, equipped with a 2.3 Mpx Global Shutter OCR sensor with a 25 mm fixed focal lens and a 2 Mpx Sony Night Vision high-sensitivity colour context sensor with a 12 mm fixed lens.

TARGA 306 is equipped with **high-precision and accurate** video analysis algorithms (*deep learning*), integrated in the AI - NVIDIA platform for the recognition of:

- Make and Model of vehicles,
- Direction of travel,
- Nationality,
- Estimation of instantaneous vehicle speed,
- **Privacy** function of blurring all subjects external to the recognised vehicle.

The camera can also be powered in **POE+** via its available option.

TARGA 306 works exclusively with the CPS software platform and cannot be integrated into third-party software platforms.





Dual lens camera (OCR and context) for automatic reading of number plates and dangerous goods (Kemler), **single lane**, equipped with a 2.3 Mpx Global Shutter OCR sensor, with 5-55mm varifocal lens (10x zoom) and a 2 Mpx Sony Night Vision high-sensitivity colour context sensor with 8 or 12 mm fixed lens.

The camera is equipped with **high-precision**, **high-accuracy** video analysis algorithms (*deep learning*) integrated into the AI - NVIDIA platform for recognition of:

- Make and Model of vehicles,
- Colour of the vehicle,
- Vehicle type,
- Nationality,
- Direction of travel,
- Estimation of instantaneous vehicle speed,
- **Privacy** function of blurring all subjects external to the recognised vehicle.
- Detection of stationary vehicles, queue formation, smoke and fire (optional),
- Helmet presence/absence detection on moped and motorbikes (optional).

The camera can also be powered in **POE+** via its available option.



AVAILABLE FROM MAY 2025



Dual lens (OCR and context) camera for automatic reading of number plates and dangerous goods (Kemler), **dual lane**, equipped with a 3.2 Mpx Global Shutter OCR sensor, with 12-40mm varifocal lens (3x zoom) and a 2 Mpx Sony Ultra Night Vision high-sensitivity colour context sensor with 12 mm fixed lens.

The camera is equipped with **high-precision**, **high-accuracy** video analysis (*deep learning*) algorithms integrated into the AI - NVIDIA platform for the recognition of:

- Make and Model of vehicles,
- Colour of the vehicle,
- Vehicle **type**,
- Nationality,
- Direction of travel,
- Estimation of instantaneous vehicle speed,
- Privacy function of blurring all subjects external to the recognised vehicle.
- Detection of stationary vehicles, queue formation, smoke and fire (optional),
- Helmet presence/absence detection on moped and motorbikes (optional).

The camera can also be powered in **POE+** via its available option.





Dual lens camera (OCR and context) for automatic reading of number plates and dangerous goods (Kemler), **dual lane**, equipped with a 5 Mpx Global Shutter OCR sensor, with 12-40mm varifocal lens (3x zoom) and a 5 Mpx Sony Night Vision high-sensitivity colour context sensor with 12 mm fixed lens.

The camera is equipped with **high-precision**, **high-accuracy** video analysis algorithms (*deep learning*), integrated into the AI - NVIDIA platform for the recognition of:

- Make and Model of vehicles,
- Colour of the vehicle,
- Vehicle **type**,
- Nationality,
- Direction of travel,
- Estimation of instantaneous vehicle speed,
- Privacy function of blurring all subjects external to the recognised vehicle,
- Detection of stationary vehicles, queue formation, smoke and fire (optional),
- Helmet presence/absence detection on moped and motorbikes (optional).

The camera can also be powered in **POE+** via its available option.





Dual lens camera (OCR and context) for automatic reading of number plates and dangerous goods (Kemler), up to **three lanes of** traffic, equipped with a 5Mpx OCR Global Shutter sensor with a 12-40mm **motorised lens** and a high-sensitivity Sony Ultra Night Vision 8Mpx(**4K**) colour context sensor with a 12mm fixed lens for panoramic shooting of the context.

The camera is equipped with 12 **high-precision and highly accurate** video analysis algorithms (*deep learning*), integrated into the AI - NVIDIA platform for the recognition of:

- Make and Model (9000 models),
- Classification of vehicles (35 types),
- **Colour** (16 colour shades),
- Nationality,
- Direction of travel,
- Estimation of instantaneous vehicle speed,
- **Privacy** function of blurring all subjects external to the recognised vehicle.
- Detection of anomalies such as stationary vehicle, queue formation, smoke and fire,
- Detection of **helmet** presence/absence on motorbikes and motorbikes.
- Statistical analysis of driving behaviour:
 - without belt
 - with mobile phone in hand



• animals on board

The camera can be powered in **POE+** via its available option.







NEW FUNCTIONS

- Search for vehicles making suspicious journeys
- ★ Search for identical holders transiting with different number plates at different times
- ★ Driver's licence queries with obstructions
- Transit control of cars in the name of persons residing on fictitious streets
- Cross-referencing of data from telephone cells
- Possibility of highlighting municipal areas on the map
- ★ Customisation of alarms on the Monitor

Intelligent number plate analysis and management operating software.

Evaluated by the Local Police as one of the most advanced software for operational use *(investigations, traffic offences, search for accomplices, fictitious vehicles, stolen vehicles, administrative detention, no-RCA etc*). CPS is a solution that combines ease of use with advanced functions and high search response speed.

The solution integrates and is compatible with all brands of OCR licence plate reading cameras on the market. It has been developed to ensure full compliance with the most stringent security and privacy requirements of the GDPR, and is ISDP10003 certified (Privacy by Design and Privacy by Default).

The CPS suite is complete with APP, communication functions with LTE radio devices, integration with **External** database, Plugin able to connect and aggregate licence plate reading portals of other brands and centralise data on a single 'Manager' workstation: a solution highly appreciated by both Local Police and the Judicial Police, because it allows to

- save time and personnel
- prevent crimes more effectively
- real-time tracking of suspicious vehicles within the provincial territory
- increase security throughout the province





Comparative table

LICENCE PLATE READING CAMERAS URBAN SECURITY

Model	306	706	860	760	960
Lane width (number of lanes)	Single lane	Single lane	Dual lane	Dual lane	Up to 3 lanes
OCR sensor	2.3 Mpx	2.3 Mpx	5 Mpx	3.2 Mpx	5 Мрх
Lens	Fixed Focus 25mm	Varifocal 5~55mm	Varifocal 12~40mm	Varifocal 12~40mm	Motorised 12~40mm
Sony Night Vision colour context sensor	2 Mpx	2 Мрх	5 Мрх	2 Mpx Ultra Night Vision	8 Mpx (4K) Ultra Night Vision
OCR reading and dangerous goods (Kemler)	✓	<	<	 ✓ 	<
Nationality Recognition	✓	✓	✓	✓	✓
Speed and direction recognition	✓	✓	✓	✓	✓
Vehicle type recognition	CPS	✓	✓	✓	✓
Colour Recognition	CPS	✓	✓	✓	✓
Make & Model Recognition	✓	✓	✓	✓	✓
Detection of stationary vehicle, wrong way, fire/smoke	-				✓
Helmet presence detection on motorcycle/motorcycle driver	-				<
Statistical analysis for bad driving (on mobile phone, without seatbelt, presence of animals).	-	-	-	-	<
Interface for PM2.5 and PM10 sensor	-	✓	<	✓	<
Standard memory (for backup and white/black list)	✓	✓	✓	✓	✓
POE+ power supply with high power injector					

LEGEND

- standard (integrated)
- = optional
- **CPS** = function processed by CPS modules
- = not available



Products for the **PARKING** AND VEHICLE ACCESS CONTROL







Modern and elegant ANPR *BOX camera* for **high accuracy** OCR number plate recognition even in critical conditions such as dirty and deteriorated number plates, during the day and night. License plate reading solution for those who want to create a professional, low-speed vehicle parking and access control system with ZERO effect: zero errors, zero problems, zero waste of time.

The camera is equipped with:

- 2 Mpx OCR Global Shutter sensor, with a 3.6 mm fixed focus lens
- IR illuminator for readings from 1.2 up to 3.5 m
- Input and Output
- 8GB internal memory for White/Black list making it a stand-alone system without PC connections
- support arm and connection cables

The camera can be powered by 12 Vdc or 802.3af POE





A modern and elegant ANPR *COLUMN* for **high accuracy** OCR number plate recognition even in critical conditions such as dirty and deteriorated number plates, during the day and night. License plate reading solution for those who want to create a professional, low-speed vehicle parking and access control system with ZERO effect: zero errors, zero problems, zero waste of time.

The camera is equipped with:

- 2.3 Mpx OCR Global Shutter sensor, with a 6 mm fixed focus lens
- IR illuminator for readings from 1.5 up to 6 m
- RS232/485 serial interface, OSDP and non-opto-isolated Wiegand as standard
- Input and Output
- 8GB internal memory for White/Black list making it a stand-alone system without PC connections
- base with adjustment slots for column orientation

The camera can be powered by 12 Vdc or 802.3af POE





ANPR camera for OCR number plate recognition for parking and vehicle access control at low speed, **high accuracy** even in critical conditions such as dirty and deteriorated number plates, during the day and night. License plate reading solution for those who want to create a professional parking and access control system with ZERO effect: zero errors, zero problems, zero waste of time.

The camera is equipped with:

- 2 Mpx OCR Global Shutter sensor, with either an 8 mm or a 16 mm fixed focus lens (optional)
- IR illuminator for readings from 1.5 up to 4 m(8 mm lens) or from 3 up to 8 m(16 mm lens)
- RS232/485 serial interface as standard, (optional) OSDP and opto-isolated Wiegand
- Input and Output
- 8GB internal memory for White/Black list making it a stand-alone system without PC connections





ANPR camera for parking and access control systems, for OCR recognition of number plates and dangerous goods (Kemler), with **high accuracy** even in critical conditions such as dirty and deteriorated number plates, during the day and night. License plate reading solution for those who want to create a professional parking and access control system with ZERO effect: zero errors, zero problems, zero waste of time.

The camera is equipped with:

- 2 Mpx OCR Global Shutter sensor, with a 5-55mm varifocal lens (10x zoom)
- optional 5 Mpx Rolling Shutter colour sensor for panoramic shooting of the context with an 8 mm fixed focus lens
- IR illuminator for readings from 3 up to 10 m
- RS232/485 serial interface as standard, (optional) OSDP and opto-isolated Wiegand
- Input and Output
- 8GB internal memory for White/Black list making it a stand-alone system without PC connections

The camera can be optionally powered in **POE+** with high power injector.





ANPR camera for parking and access control systems, for OCR recognition of number plates and dangerous goods (Kemler), with **high accuracy** even in critical conditions such as dirty and deteriorated number plates, during the day and night. License plate reading solution for those who want to create a professional access control system also for the control of heavy vehicles on widened gates (7 m).

The camera is equipped with:

- 3.2 Mpx OCR Global Shutter sensor, with a 4.4-10mm varifocal lens
- 5 Mpx Sony Night Vision colour sensor for panoramic context shooting with a 6 mm fixed focus lens
- IR illuminator for readings from 3 up to 10 m
- RS232/485 serial interface, OSDP and opto-isolated Wiegand as standard
- Input and Output
- 8GB internal memory for White/Black list making it a stand-alone system without a PC connections

The camera can optionally be powered in **POE+** with a high power injector





Software for the management and control of vehicle access.

Main functionalities

- Web-based multi-operator software with customisation of permissions
- Possibility of configuring parking areas with multiple inputs and outputs
- Setting up and managing multiple tariff plans
- Registered user management, also for users with several vehicles
- · Possibility of registering users with expiring accounts
- Management of user categories
- Number plate list management
- Customising the number of reserved seats by category, user, list or vehicle type
- Possibility of authorising access to non-registered vehicles upon exhaustion of non-reserved seats
- Anti-passback function
- Notification of prolonged stay in the parking area
- Notification of rapid passage through the parking area

- Notification of return to the area within a short time, with the possibility of continuing the previous stop
- Automatic and on-demand report generation with possibility to include transit images
- Automatic calculation of the parking tariff according to the defined tariff plans
- Display of vehicle master data and description
- Real-time display of parking area status, with total occupancy and for each type of reserved space
- Intelligent search in license plate history, users, categories, passage point and control area
- Customisable actions for each type of event
- Automatic synchronisation of master data and lists with external sources
- Integration with Telegram messaging system for sending notifications to the system administrator or users
- · Possibility of integration with third-party systems







Model	iZERO BOX	iZERO2	512	504	560
Gate width	3.5 m	4 m	4 m	4 m	7 m
OCR sensor	2 Мрх	2.3 Mpx	2 Мрх	2 Мрх	3.2 Mpx
Lens	Fixed Focus 3.6 mm	Fixed Focus 6 mm	Fixed Focus 8/16 mm	Varifocal 5~55mm	Varifocal 4.4~10mm
Context sensor	-	-	-		5 Mpx Night Vision
OCR reading and frontal Kemler table	-	-	-	<	<
Average reading distance(<i>min - max</i>) *	1.2~3.5m	1.5~6m	1.5~4mt/ 3~8mt	3~10mt	3~10mt
Number of inputs (opto-isolated)	1	1	-	-	-
Number of dry contacts inputs	1	1	2	2	2
Number of outputs (opto-isolated)	1	1	-	-	-
Number of dry contact outputs (relays)	1	1	1	1	2
RS232, RS485 interface	-	✓	<	<	✓
OSDP	-	✓			<
 Wiegand interface: 64-bit Siemens 64-bit Honeywell 64-bit Nedap 26 bits SHA1 	✓	✓			•
8GB standard memory (for backup and white/ black list)	✓	✓	✓	✓	✓
Standard power supply	12 Vdc	12 Vdc	12 Vdc	220 Vac	10~32 Vdc
POE power supply	✓	✓	-	•	•

(*) distances vary depending on both the size of the number plates and the positioning of the camera (front or side)

LEGEND

= standard (integrated)

- = optional
- **CPS** = function processed by CPS modules
- = not available





SPECIAL PRODUCTS





Dual-lens camera (OCR and context) specialised in ILU-BIC container code recognition(*rear and above*): solution for automation and cargo control in ports and access control.

The feature of this camera is its extremely high reading accuracy, measured on the reading of millions of containers and capable of guaranteeing an accuracy greater than 99.8%.

The camera is equipped with a 2.3 Mpx OCR Global Shutter sensor, with a 5-55mm varifocal lens (10x zoom) and a 2 Mpx Sony Night Vision high-sensitivity colour context sensor with an 8 or 12 mm fixed lens.

The camera can be powered in **POE+** or low voltage via the available option.

Selea service for the installation of the entire system.





Mobile camera with **dual lens** (OCR and context) suitable for **moving** licence plates of vehicles on the road(**Model TS25**) or parked on the side of the road, double-parked or herringbone-parked vehicles(**Model TS8**). Camera equipped with a 2 Mpx Global Shutter OCR sensor, with a 6 mm fixed focus lens (TS8) or 25 mm fixed focus lens (TS25). Both models incorporate a high-sensitivity Sony Night Vision 2Mpx colour context sensor with 6mm (TS8) or 25mm (TS25) fixed focus lens.

Camera with the following options:

- KIT including: Wi-Fi router, cigarette lighter power cable, cigarette lighter socket splitter
- Inverter for Scanner, router and Notebook PC power supply
- Tablet 10" including configured CPS software
- 14" Notebook PC including configured software

About us

SELEA manufactures and implements solutions both for vehicle access control, as well as for territorial safety and traffic control. Each hardware and software product is rigorously designed and manufactured by Selea and this means, for the customer, to benefit from complete and continuous technical support at any time.

madeinitaly

Selea Srl

Via Aldo Moro, 69 46019 Cicognara (MN) PIVA 01811290202 Tel +39 0375 88.90.91 Fax +39 0375 88.90.80 www.selea.com infocom@selea.com

- LPR CAMERA PRODUCTION
- SOFTWARE DEVELOPMENT
- INTERNAL RESEARCH & DEVELOPMENT
- 100% MADE IN SELEA

