

COLUMN
VERSION

iZero 3

ACCESS CONTROL
PARKING



DATASHEET 2026 REV1

PRODUCT
 **MADE IN ITALY**

BOX
VERSION



ANPR - OCR Camera

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 vehicle parking and access control system with ZERO effect: *zero errors, zero problems, zero waste of time.*



WWW.SELEA.COM

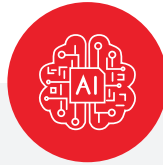
STRENGTHS

Italian design meets the precision of dual-sensor technology: an elegant aesthetic that guarantees flawless readings even under critical conditions, identifying the make, model, color, and nationality of every vehicle.



DESIGN

Italian technology and design: a restrained, elegant, and timeless aesthetic to enhance exclusive parking lots and access points.



INTELLIGENCE

Dual sensors, dual intelligence: comprehensive analysis in a single camera. It recognizes the make, model, color, class, and nationality of every vehicle.



ACCURACY

Flawless reading for uncompromising control, even under the most critical and complex conditions such as dirty, worn, or highly angled license plates.



Privacy
of subjects



Make
of the vehicles



Model
of the vehicles



Colour
of the vehicles



Class
of the vehicles



Nationality
recognition



2 Mpx
Ultra Night Vision



2.3 Mpx
Global Shutter



NVIDIA
Platform



8 GB
Memory



I/O
Serial



POE
802.3af

Certified Reliability

WARRANTY
5 YEARS

Nothing has been left to chance, starting with data protection guaranteed by Privacy by Design - Privacy by Default certification and compliance with NDAA standards. A solid value, backed by an extended 5-year warranty.

ISDP 10003 CERTIFIED

Designed with security in mind, following Privacy by Design and Privacy by Default principles for maximum data protection.

NDAA COMPLIANT

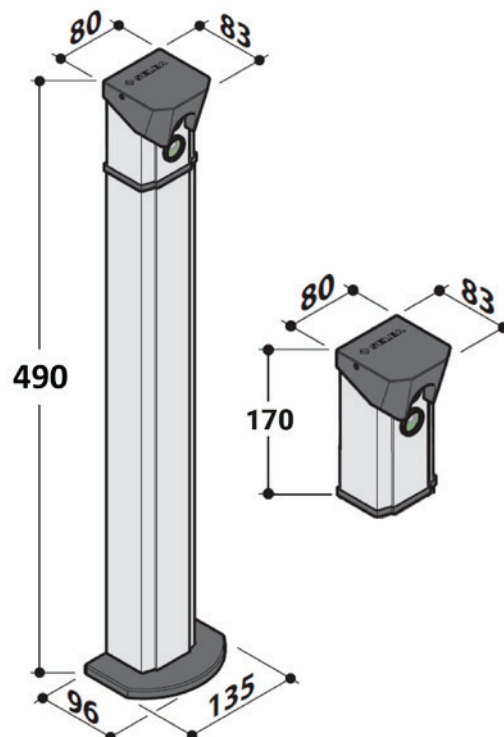
Compliance ensures protected hardware and technological sovereignty: a 'Cyber-Safe' solution that eliminates all vulnerabilities and the use of critical components.

HARDWARE FEATURES OF THE CAMERA

Sensor	
OCR Sensor	2.3 Megapixel, Global Shutter 1/2.6", CMOS B/N, frame rate of 60 Fps
Context Sensor	2 Megapixel color Sony Ultra Night Vision CMOS with high sensitivity for color images even at night.
Lens	
OCR lens	6 mm fixed focal length with F1.2 aperture and M12 mount
Context lens	6 mm fixed focal length with F1.2 aperture and M12 mount
Exposure mode	
OCR sensor	Dual Shutter, Triple Shutter, Auto Shutter, Fixed Shutter
Context sensor	Auto Shutter
IR Illuminator	
Pulsed light IR Illuminator	3x high power 820 nm IR LEDs (940 nm on request) that are compliant with the EN62471:2008 standard on photobiological safety.
Internal memory	
Type and expandability	built-in -> 8 GB High Endurance (transfer rate: 80 MB/s) (-40° ~ + 85°C) industrial microSD SLC memory card (expandable on request up to 256 GB of MLC type). - The memory can be expanded using the USB interface provided to connect storage disks of high capacity currently available on the market (≤ 1TB - optional)
Input/Output	
Input	1x optoisolated digital input 1x dry contact digital input
Output - (Column version)	1x RS232 - RS485 interface 1x optoisolated output rated at 10 mA / 5-12 Vdc 1x dry contact relay rated at 0.3 A - 125 Vac or 1 A - 30 Vdc - Wiegand interface
Output - (Box version)	1x optoisolated output rated at 10 mA / 5-12 Vdc 1x dry contact relay rated at 0.3 A - 125 Vac or 1 A - 30 Vdc - Wiegand interface or, upon request, RS232 - RS485 interface
Ports	
USB	1x USB 3.1 port (standard on the column version – not available on the box version)
Ethernet	1x 10/100/1000 Mbps LAN port
Power Supply	
Power supplies	12 Vdc or PoE 802.3af
Power Consumption	12 W max
Inbuilt protection	
The camera is protected against:	- reverse polarity - voltage fluctuations greater than 17 Vdc - overloads with thermal protection - overvoltages (TVS) on USB and Ethernet ports

HARDWARE FEATURES OF THE CAMERA

Certifications	
OCR	100% accuracy according to UNI 10772:2016 class A parameters for rear, two-line, motorcycle and moped number plates
Data security	ISDP10003:2020 - Privacy by Default and Privacy by Design
Standards	
Respected standards	- EN62471 - EN55032 - EN55035 - EN61000 - EN62368-1 - EN60529 - EN62262 - EN60068 - EN60721 - European standard RoHS2 - 2011/65/UE
General	
Operating temperature	From -25°C to +45 °C without the need of fans or heaters
Protection rating	IP66
Dimension (mm) Column Version Box Version	L=80 : H=490; P=83 L=80 : H=170; P=83
Weight Column Box	1570 g 855 g



SOFTWARE FEATURES OF THE CAMERA

Embedded algorithms

Standard built-in functions	• License plate reading (OCR) - reading characters of over 50 countries • Fog-Fighter (reading license plates in the fog) • Nationality (+ 50 Countries) • Blurring of subjects on both sensors (Ensures complete privacy) • Make (200) - <i>accuracy > 95%</i> • Model (+5000) - <i>accuracy > 95%</i> • Colour (16 classes) - <i>accuracy > 95%</i> • Class (35 classes) - <i>accuracy > 95%</i>
Accuracy	The recognition accuracy of the integrated algorithms depends on local lighting conditions and installation methods which, if properly followed, can reach the indicated values.
Notes	The above-mentioned processing is applied to the images obtained from both sensors (OCR and Context).

Data communications

Integrated webserver	• Onvif Profile S communication protocol. • Save data directly to local server or remote NAS. • Integration with third party VMS software solutions. • Synchronized recording of metadata, number plate/Kemler table and context image. • Context images synchronised with number plate/Kemler table. • Dynamic creation and updating of multiple lists (black/white). • Integration and HTTP storage of JPEG snapshot images of external TCP/IP context cameras of any make or model. • Multiple action alarm management. • Differentiated alarms for each type of infringement. • Alarm-triggered transmission of the image associated with the captured number plate to remote devices (such as MOTOROLA and HYTERA mobile radio communication equipment, Tablet etc.) with vocal reception of the number plate. • Double FTP and/or TCP/IP server.
Protocols	TCP/IP, UDP, HTTP, HTTPS, FTP, FTPS, RTP/RTSP, DHCP, SNMP.
Other integrated protocols	• MODBUS TCP slave (allows the master to read the last license plate read) • Non opto-isolated Wiegand (Isolator for Wiegand interface available on request on the column version) • OSDP (available on request for the Box version)

Data security

Data protection	• HTTPS encryption. • FTPS (FTP over TLS/SSL) encryption. • Micro SD memory encryption. • Automatic deletion of data and images after specified period of time (privacy management). • AES256 Advanced Encryption Standard. • SHA2 Secure Hash Algorithm 2.
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SOFTWARE FEATURES OF THE CAMERA

Functionality	
Operating system	Linux Embedded
Standard built-in functions	- Mode of operation: free-run, weighted, redundant, external trigger. - Double FTP server and double IP notification server. - Dynamic FTP notification forwarding customization. - IP notification customization. - Multiple user management using HTTPS protocol protected access credentials for accessing the camera. - List management (white/black, no list) with independent actions for each list. - Synchronized recording of metadata and captured code/number plate image. - Integration and saving of context camera images. - Privacy management with automatic deletion of image data after a specified period of time. - Integration with third party VMS video surveillance software solutions. - Save data on a local server or remote NAS. - HTTPS security management. - FTPS (FTP over TLS/SSL) security management. - E-mail forwarding security using TLS/SSL protocol. - Multiple action alarm management. - Live and check control function for checking the operation of the entire system. - Synchronization of date and time via NTP, IEEE1588 protocol. - Possibility of updating firmware from a web page.
Video output	
OCR sensor	2.3 Megapixel Jpeg images and HD RTP/RTSP video stream with MPEG4, H264 and H265 encoding.
Context sensor	Images and RTP/RTSP or HTTP video stream with MPEG4, H264 and H265 encoding.
Context frame rate	30 fps with 2 Mpx Sony Ultra Night Vision context sensor
Accuracy	
OCR accuracy	- Up to 99,8% of transits 100% accuracy according to UNI 10772:2016 class A parameters for rear, two-line, motorcycle and moped number plates. 30 Km/h maximum capture speed.
Installation	
Geometry	- Single lane detection - Gate width: up to 4 m - Reading distance: up to 6 m



SMART PARKING SPACE MANAGEMENT

Privacy by Design

e Privacy by Default

ISDP 10003

The system manages space saturation in real time: for family groups, it blocks entry if the assigned space is already occupied, freeing it up only once the previous vehicle exits. It also guarantees priority, automatic access for emergency vehicles, law enforcement, and suppliers, regardless of the constraints set.



Features

ADVANCED SOFTWARE FOR PARKING FACILITIES, HOTELS, CAMPGROUNDS, BUSINESSES, AND RESIDENTIAL COMPLEXES. IT OPTIMIZES ACCESS BY MONITORING PERMITS, TIME SCHEDULES, COSTS, AND VIP CATEGORIES..

01

Unlimited areas and users

Total scalability to manage every access point from a single platform. Configure unlimited zones and user records with maximum operational freedom.

02

Customized multi-category permits

Advanced access management through custom-tailored rules. Define lists and time slots for each vehicle type or user category.

03

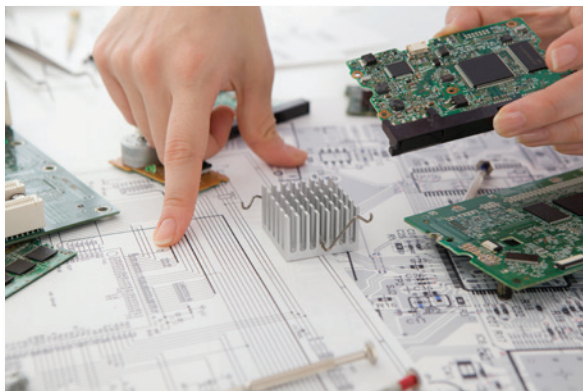
Real-time area monitoring

View the status of access points and space occupancy moment by moment. A live overview for total, immediate oversight.

04

Advanced search and reporting

Analyze transit history with targeted filters and generate automatic reports to optimize data and vehicle flow management.



- IN-HOUSE DESIGN
- CAMERA PRODUCTION
- SOFTWARE DEVELOPMENT
- R&D 100% MADE IN SELEA

ABOUT US

SELEA is an Italian manufacturer specialized in the design and production of ANPR cameras for license plate recognition and advanced software dedicated to road safety, territorial monitoring, and access control in urban areas and parking facilities. SELEA is a company of the TTM Spa group.

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THE GROUP

TTM TECHNOLOGY



TTM Technology brings together three companies specialized in the production and development of AI cameras, software, and integrated, innovative technologies for license plate recognition, access control in restricted traffic zones (ZTL), and advanced video analytics.

A unique technology partner alongside public authorities, local police forces, and design professionals, working to make cities more accessible, safer, and smarter.